

References

- Aedo, M. P., Peredo, S., & Schaeffer, C. (2019). From an essential being to an actor's becoming: Political ecology transformational learning experiences in adult education. *Environmental Education Research*, 25(1), 33–45. <https://doi.org/10.1080/13504622.2017.1408057>
- Afacan, Ö., & Gürel, I. (2019). The effect of quantum learning model on science teacher candidates' self-efficacy and communication skills. *Journal of Education and Training Studies*, 7(4), 86–95.
- Afniyati, N., Yuniastuti, A., & Subekti, N. (2018). The application of quantum learning interactive multimedia assisted learning model towards the student's learning outcomes in animalia material. *Journal of Biology Education*, 7, 312–319. <https://doi.org/10.15294/jbe.v7i3.27081>
- Alfaiz, A., Hidayah, N., Hambali, I. M., & Radjah, C. L. (2019). Human agency as a self-cognition of human autonomous learning: A synthesized practical of agentic approach. *Journal of Social Studies Education Research*, 10(4), 370–391.
- Ahn, R., Ingham, S., & Mendez, T. (2016). Socially constructed learning activity: Communal note-taking as a generative tool to promote active student engagement. *Transformative Dialogues: Teaching & Learning Journal*, 8(3), 1–15.
- Aktar, T., Chen, J., Ettelaie, R., Holmes, M., & Henson, B. (2017). Human roughness perception and possible factors affecting roughness sensation. *Journal of Texture Studies*, 48(3), 181.
- Al Dahhan, N. Z., Kirby, J. R., & Munoz, D. P. (2016). Understanding reading and reading difficulties through naming speed tasks: Bridging the gaps among neuroscience, cognition, and education. *AERA Open*, 2(4), 2332858416675346. <https://doi.org/10.1177/2332858416675346>
- Alamir, M. A., AlHares, A., Hansen, K. L., & Elamer, A. (2020). The effect of age, gender and noise sensitivity on the liking of food in the presence of background noise. *Food Quality and Preference*, 84, 103950. <https://doi.org/10.1016/j.foodqual.2020.103950>
- Alan, B. (1994). The magical number seven: Still magic after all these years? *Psychological Review*, 101(2), 353.
- Allen, E. J., Moerel, M., Lage-Castellanos, A., De Martino, F., Formisano, E., & Oxenham, A. J. (2018). Encoding of natural timbre dimensions in human auditory cortex. *NeuroImage*, 166, 60–70. <https://doi.org/10.1016/j.neuroimage.2017.10.050>
- Alleva, P., & Gundlach, J. A. (2015). Learning intentionally and the metacognitive task. *Journal of Legal Education*, 65, 710–743.
- Alluri, V., & Toivainen, P. (2012). Effect of enculturation on the semantic and acoustic correlates of polyphonic timbre. *Music Perception*, 29(3), 297. <https://doi.org/10.1525/mp.2012.29.3.297>
- de Almeida, A. M., & Santos, F. S. (2012). *Exploring frontiers of the mind-brain relationship*. Springer.

- Almutrafi, F. (2015). Language and cognition: Effects of grammatical gender on the categorisation of objects. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.692656>
- Altun, M., & Saracaloğlu, A. S. (2019). The effect of Quantum learning model on foreign language speaking skills, speaking anxiety and self-efficacy of secondary school students. *Journal of Language & Linguistics Studies*, 15, 1083–1104. <https://doi.org/10.17263/jlls.631550>
- Amabile, T. (1992). Social environments that kill creativity. *Readings in innovation* (pp. 1–17). O'Reilly.
- Amabile, T. M. (1998). A model of creativity and innovation in organizations. *Research in Organizational Behavior*, 10, 123–167.
- Amabile, T. M. (2017). In pursuit of everyday creativity. *Journal of Creative Behavior*, 51, 335–337. <https://doi.org/10.1002/jocb.200>
- Amabile, T. M., Hennessey, B. A., & Grossman, B. S. (1986). Social influences on creativity: The effects of contracted-for reward. *Journal of Personality and Social Psychology*, 50(1), 14–23.
- Amabile, T. M., & Pillemer, J. (2012). Perspectives on the social psychology of creativity. *Journal of Creative Behavior*, 46(1), 3.
- Angelaki, D. E., Gu, Y., & DeAngelis, G. C. (2009). Multisensory integration: Psychophysics, neurophysiology, and computation. *Current Opinion in Neurobiology*, 19, 452–458. <https://doi.org/10.1016/j.conb.2009.06.008>
- Anton-Erxleben, K., Herrmann, K., & Carrasco, M. (2013). Independent effects of adaptation and attention on perceived speed. *Psychological Science*, 24(2), 150. <https://doi.org/10.1177/0956797612449178>
- Arkan, B., Avdal, E. Ü., & Sari, H. Y. (2016). Locus of control and self directed learning relation on nursing students. *International Journal of Caring Sciences*, 9, 514–519.
- Artemeva, N., Logie, S., & St-Martin, J. (1999). From page to stage: How theories of genre and situated learning help introduce engineering students to discipline-specific communication. *Technical Communication Quarterly*, 8(3), 301.
- Arunachalam, S., Grilo, A. B., & Sundaram, A. (2019). Quantum hardness of learning shallow classical circuits. <http://arxiv.org/abs/1903.02840>
- Ashby, F. G. (1992). *Multidimensional models of perception and cognition*. Psychology Press.
- Asmus, E. P. (1978). Perception and analysis of the difference tone phenomenon as an environmental event. *Journal of Research in Music Education*, 26, 82–89.
- Astutik, S., Susantini, E., Madlazim, M., Nur, M., & Supeno, S. (2020). The effectiveness of collaborative creativity learning models (CCL) on secondary schools scientific creativity skills. *International Journal of Instruction*, 13, 525–538. <https://doi.org/10.29333/iji.2020.13336a>
- Asutay, E., & Västfjäll, D. (2012). Perception of loudness is influenced by emotion. *PloS One*, 7(6), e38660. <https://doi.org/10.1371/journal.pone.0038660>
- Atick, J. J. (2011). Could information theory provide an ecological theory of sensory processing? *Network*, 22(1–4), 4–44. <https://doi.org/10.3109/0954898X.2011.638888>
- Awaludin, M., Suryani, Y., & Riyadi, M. (2019). The efforts to increase multiplication learning outcomes with quantum learning model. *Indonesian Journal of Learning and Instruction*, 2(1), 47–52. <https://doi.org/10.25134/ijli.v2i01.1683>

- Bačić, I., & Franović, I. (2020). Two paradigmatic scenarios for inverse stochastic resonance. *Chaos*, 30(3), 1–10. <https://doi.org/10.1063/1.5139628>
- Bader, R. (2013). *Nonlinearities and synchronization in musical acoustics and music psychology*. Springer.
- Bajaj, N., Bellotti, F., Berta, R., & De Gloria, A. (2016). A neuroscience based approach to game based learning design. In *Games & learning alliance: 5th international conference, GALA 2016, Utrecht, The Netherlands, December 5–7, 2016, Proceedings*, p. 444.
- Barber, T. X. (1965). The effects of “hypnosis” on learning and recall: A methodological critique. *Journal of Clinical Psychology*, 21(1), 19–25. [https://doi.org/10.1002/1097-4679\(196501\)21:1<19::AID-JCLP2270210107>3.0.CO;2-Z](https://doi.org/10.1002/1097-4679(196501)21:1<19::AID-JCLP2270210107>3.0.CO;2-Z)
- Barlow, F. K. (2019). Nature vs. nurture is nonsense: On the necessity of an integrated genetic, social, developmental, and personality psychology. *Australian Journal of Psychology*, 71(1), 68.
- Barragán, R., Coltell, O., Portolés, O., Asensio, E. M., Sorlí, J. V., Ortega-Azorín, C., González, J. I., Sáiz, C., Fernández-Carrión, R., Ordovas, J. M., & Corella, D. (2018). Bitter, sweet, salty, sour and umami taste perception decreases with age: Sex-specific analysis, modulation by genetic variants and taste-preference associations in 18 to 80 year-old subjects. *Nutrients*, 10, 1539. <https://doi.org/10.3390/nu10101539>
- Barutcu, A., Toohey, S., Shivdasani, M. N., Fifer, J. M., Crewther, S. G., Grayden, D. B., & Paolini, A. G. (2019). Multisensory perception and attention in school-age children. *Journal of Experimental Child Psychology*, 180, 141–155. <https://doi.org/10.1016/j.jecp.2018.11.021>.
- Basu, S., Schlauch, R. S., & Sasisekaran, J. (2018). Backward masking of tones and speech in people who do and do not stutter. *Journal of Fluency Disorders*, 57, 11–21. <https://doi.org/10.1016/j.jfludis.2018.07.001>
- Bates, K. B., Peynircioglu, Z. F., & Brent, W. (2019). Learning to discriminate new timbres. *New Ideas in Psychology*, 55, 1–7. <https://doi.org/10.1016/j.newideapsych.2019.04.001>
- Beauchamp, J. W. (2007). *Analysis, synthesis, and perception of musical sounds: The sound of music*. Springer.
- Bechtold, T. A., & Senn, O. (2018). Articulation and dynamics influence the perceptual attack time of saxophone sounds. *Frontiers in Psychology*, 9, 1692. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=edb&AN=131941656&site=eds-live&scope=site>
- Beck, J. (2018). Marking the perception-cognition boundary: The criterion of stimulus-dependence. *Australasian Journal of Philosophy*, 96, 319.
- Becker, C. J., & Hall, M. D. (2014). Effects of fundamental frequency removal and low-pass filtering on pitch comparisons. *Psychomusicology: Music, Mind, and Brain*, 24, 195–206. <https://doi.org/10.1037/a0037933>
- Beer, K., Bondarenko, D., Farrelly, T., Osborne, T. J., Salzman, R., & Wolf, R. (2019). Training deep quantum neural networks. *Nature Communications*, 11, 808. <https://doi.org/10.1038/s41467-020-14454-2>
- Behrmann, M., & Ewell, C. (2003). Expertise in tactile pattern recognition. *Psychological Science*, 14, 480–486. <http://www.jstor.org/stable/40064171>

- Belkin, K., Martin, R., Kemp, S., & Gilbert, A. (1997). Auditory pitch as a perceptual analogue to odor quality. *Psychological Science*, 8, 340–342. <http://www.jstor.org/stable/4006320>
- Bellard, B. (2018). Achieving complex learning outcomes through adoption of a pedagogical perspective: A model for computer technology delivered instruction. *Journal of Educational Multimedia and Hypermedia*, 27(1), 5–23.
- Ben Hadj Hassen, S., & Ben Hamed, S. (2020). Functional and behavioural correlates of shared neuronal noise variability in vision and visual cognition. *Current Opinion in Physiology*. <https://doi.org/10.1016/j.cophys.2020.07.015>.
- Bennis, W. G., & Biederman, P. W. (1998). *Organizing genius: The secrets of creative collaboration*. Basic Books.
- Bentley, D. C. (2014). Inquiry guided learning projects for the development of critical thinking in the college classroom: A pilot study. *Collected Essays on Learning and Teaching*, 7(2), 112–116.
- Berglund, B. (2012). *Measurement with persons: Theory, methods, and implementation areas*. Psychology Press.
- Bernárdez, E., Jablonska-Hood, J., & Stadnik, K. (2019). *Cognition in context: New insights into language, culture and the mind*. Peter Lang GmbH, Internationaler Verlag der Wissenschaften.
- van Beurden, M. F. B., & Dreschler, W. A. (2018). Partial loudness at masker onset indicates temporal effects at supra-threshold levels. *Hearing Research*, 370, 168–180. <https://doi.org/10.1016/j.heares.2018.10.012>
- Beymer, P. N., Rosenberg, J. M., & Schmidt, J. A. (2020, February). Does choice matter or is it all about interest? An investigation using an experience sampling approach in high school science classrooms. *Learning and Individual Differences*, 78, 101812. <https://doi.org/10.1016/j.lindif.2019.101812>
- Bhattacharai, J. P., Schreck, M., Moberly, A. H., Luo, W., & Ma, M. (2020). Aversive learning increases release probability of olfactory sensory neurons. *Current Biology*, 30(1), 31–41. <https://doi.org/10.1016/j.cub.2019.11.006>
- Bhote, K. (2019). Creative collaboration: A new make-over for an ancient concept? *E-Organisations & People*, 26(3), 13.
- Biederman, I., & Gerhardstein, P. C. (1993). Recognizing depth-rotated objects: Evidence and conditions for three-dimensional viewpoint invariance. *Journal of Experimental Psychology: Human Perception and Performance*, 19(6), 1162.
- Billings, C. J., McMillan, G. P., Dille, M. F., & Konrad-Martin, D. (2019). Compensatory and serial processing models for relating electrophysiology, speech understanding, and cognition. *Ear and Hearing*, 40, 1035–1038. <https://doi.org/10.1097/AUD.0000000000000674>
- Björkvall, A. (2014). Practices of visual communication in a primary school classroom: Digital image collection as a potential semiotic mode. *Classroom Discourse*, 5(1), 22–37.
- Blanchard, C., Roll, R., Roll, J.-P., & Kavounoudias, A. (2013). Differential contributions of vision, touch and muscle proprioception to the coding of hand movements. *PLoS One*, 8(4), 1–11. <https://doi.org/10.1371/journal.pone.0062475>
- Blankenship, M. L., Grigorova, M., Katz, D. B., & Maier, J. X. (2019). Retronasal odor perception requires taste cortex, but orthonasal does not. *Current Biology*, 29(1), 62–69. <https://doi.org/10.1016/j.cub.2018.11.011>

- Bloom, J. W. (1999). Patterns that connect: Rethinking our approach to learning and thinking. <https://eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=ED430027>
- Bohm, D. (1973). Quantum theory as an indication of a new order in physics. Implicate and explicate order in physical law. *Foundations of Physics*, 3(2), 139–168.
- Bohm, D. (2002). *Wholeness and the implicate order*. Routledge.
- Bohnemeyer, J., & Pederson, E. (2010). *Event representation in language and cognition*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511782039>
- Bolanowski, S. J., Gescheider, G. A., Verrillo, R. T., & Checkosky, C. M. (1988). Four channels mediate the mechanical aspects of touch. *Journal of the Acoustical Society of America*, 84, 1680.
- Borden, R. (2017). Gregory Bateson's search for "patterns which connect" ecology and mind. *Human Ecology Review*, 23(2), 87–96. <http://www.jstor.org/stable/26367983>
- Borneman, J. D., Malaia, E., & Wilbur, R. B. (2018). Motion characterization using optical flow and fractal complexity. *Journal of Electronic Imaging*, 27(5), 1.
- Van Boven, R., Ingeholm, J., Beauchamp, M., Bikle, P., Leslie, G., & Ungerleider, G. (2005). Tactile form and location processing in the human brain. *Proceedings of the National Academy of Sciences of the United States of America*, 102(35), 12601–12605. <http://www.jstor.org/stable/3376624>
- Bowers, J. S. (2016). The practical and principled problems with educational neuroscience. *Psychological Review*, 123, 600–612. <https://doi.org/10.1037/rev0000025>
- Bregman, A., Ahad, P., Kim, J., & Melnerich, L. (1994). Resetting the pitch-analysis system: Effects of rise times of tones in noise backgrounds or of harmonics in a complex tone. *Perception & Psychophysics*, 56(2), 155.
- Briley, D. A., & Tucker, D. E. M. (2017). Comparing the developmental genetics of cognition and personality over the life span. *Journal of Personality*, 85(1), 51.
- Brittian, A. S., Lewin, N., & Norris, S. A. (2013). You must know where you come from: South African youths' perceptions of religion in time of social change. *Journal of Adolescent Research*, 28, 642–663.
- Brown, N. J. S., Levin, M., & DiSessa, A. A. (2016). *Knowledge and interaction: A synthetic agenda for the learning sciences*. Routledge.
- Bruer, J. T. (1997). Education and the brain: A bridge too far. *Educational Researcher*, 26(8), 4–16. <https://doi.org/10.3102/0013189X026008004>
- Brugger, P., Kollias, S., Muri, R., Crelier, G., Hepp-Reymond, M., & Regard, M. (2000). Beyond re-memembering: Phantom sensations of congenitally absent limbs. *Proceedings of the National Academy of Sciences of the United States of America*, 97(11), 6167–6172. <http://www.jstor.org/stable/122599>
- Buelow, J. R., Barry, T., & Rich, L. E. (2018). Supporting learning engagement with online students. *Online Learning*, 22, 313–340. <https://doi.org/10.24059/olj.v22i4.1384>
- Burns, M. S. (1997). Burns brief inventory of communication and cognition. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=mmt&AN=test.2161&site=eds-live&scope=site>
- Butterfield, J. (1991). Quantum curiosities of psychophysics. <http://philsci-archive.pitt.edu/193/>

- Buxton, B. F., & Buxton, H. (1983). Monocular depth perception from optical flow by space time signal processing. *Proceedings of the Royal Society of London. Series B, Biological Sciences*, 218(1210), 27.
- Cain, W. S. (1982). Odor identification by males and females: Predictions vs performance. *Chemical Senses*, 7(2), 129.
- Cain, W. S., Stevens, J. C., Nickou, C. M., Giles, A., Johnston, I., & Garcia-Medina, M. R. (1995). Life-span development of odor identification, learning, and olfactory sensitivity. *Perception*, 12, 1457.
- Cariani, P. A., & Delgutte, B. (1996). Neural correlates of the pitch of complex tones. II. Pitch shift, pitch ambiguity, phase invariance, pitch circularity, rate pitch, and the dominance region for pitch. *Journal of Neurophysiology*, 76, 1717.
- Carpenter, R. H. S., & Reddi, B. (2012). *Neurophysiology: A conceptual approach* (5th ed.). CRC Press.
- Carrasco, M. (2018). How visual spatial attention alters perception. *Cognitive Processing*, 19(Suppl 1), 77–88. <https://doi.org/10.1007/s10339-018-0883-4>
- Carroll, J. D., & Wish, M. (1974). Multidimensional perceptual models and measurement methods. *Handbook of perception* (pp. 391–447). Academic Press. <https://doi.org/10.1016/B978-0-12-161902-2.50019-5>
- Carterette, E. (1974). *Psychophysical judgment and measurement*. Vol. 2. Academic Press.
- Carterette, E. C., & Friedman, M. P. (1978). *Handbook of perception: Perceptual processing V. 9*. Academic Press.
- Caudron, S., Boy, F., Forestier, N., & Guerraz, M. (2008). Influence of expectation on postural disturbance evoked by proprioceptive stimulation. *Experimental Brain Research*, 184(1), 53–59.
- Cecchetto, C., Fischmeister, F. P. S., Gorkiewicz, S., Schuehly, W., Bagga, D., Parma, V., & Schöpf, V. (2020). Human body odor increases familiarity for faces during encoding-retrieval task. *Human Brain Mapping*, 41, 1904.
- Çetin, Y., Çimen, O. A., & Yetkiner, Z. E. (2016). Using hypnosis to enhance learning second language vocabulary. *American Journal of Clinical Hypnosis*, 58(4), 399.
- Charles, M., Endrizzi, I., Aprea, E., Zambanini, J., Betta, E., & Gasperi, F. (2017). Dynamic and static sensory methods to study the role of aroma on taste and texture: A multisensory approach to apple perception. *Food Quality and Preference*, 62, 17–30. <https://doi.org/10.1016/j.foodqual.2017.06.014>
- Chemsi, G., Sadiq, M., Radid, M., & Talbi, M. (2020). Study of the self-determined motivation among students in the context of online pedagogical activities. *International Journal of Emerging Technologies in Learning*, 15(5), 17–29. <https://doi.org/10.3991/ijet.v15i05.11392>
- Chen, S., Zhu, Y., & Wayland, R. (2017). Effects of stimulus duration and vowel quality in cross-linguistic categorical perception of pitch directions. *PloS One*, 12(7), 1–36. <https://doi.org/10.1371/journal.pone.0180656>
- Chikazoe, J., Lee, D. H., Kriegeskorte, N., & Anderson, A. K. (2014). Population coding of affect across stimuli, modalities and individuals. *Nature Neuroscience*, 17, 1114–1122. <https://doi.org/10.1038/nn.3749>
- Christensen, C. (2014). Human ecology as philosophy. *Human Ecology Review*, 20(2), 31–49. <http://www.jstor.org/stable/24707625>

- Christoforides, M., Spanoudis, G., & Demetriou, A. (2016). Coping with logical fallacies: A developmental training program for learning to reason. *Child Development, 87*, 1856–1876. <https://doi.org/10.1111/cdev.12557>
- Clark, R. A. (2011). Multimodal flavour perception: The impact of sweetness, bitterness, alcohol content and carbonation level on flavour perception. <http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.555498>
- Cohen, E. A. (1980). Pitch processing of nonharmonic tones: A search for an auditory mechanism that recognizes spectral patterns. *Journal of the Acoustical Society of America, 68*(S1), S110.
- Colby, S., Clayards, M., & Baum, S. (2018). The role of lexical status and individual differences for perceptual learning in younger and older adults. *Journal of Speech, Language, and Hearing Research, 61*, 1855–1874. https://doi.org/10.1044/2018_JSLHR-S-17-0392
- Collins, S. (2019). *Neuroscience for learning and development: How to apply neuroscience and psychology for improved learning and training* (2nd ed.). Kogan Page.
- Colón, Y., & Avnet, M. S. (2014). Medical hypnotherapy for pain management. *Journal of Pain & Palliative Care Pharmacotherapy, 28*(2), 174–176. <https://doi.org/10.3109/15360288.2014.911792>
- Colonus, H., & Dzharafarov, E. N. (2006). *Measurement and representation of sensations*. Psychology Press.
- Conley, D. T., & Educational Policy Improvement Center (EPIC). (2014). Learning strategies as metacognitive factors: A critical review. *Educational Policy Improvement Center*. <https://eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=ED593387>
- Conner, J. (1992). Cutting Edge: Quantum reading/quantum minds. *Journal of Developmental Education, 16*(1), 32–33. <http://www.jstor.org/stable/42774592>
- Connolly, K. (2019). *Perceptual learning: The flexibility of the senses*. Oxford University Press.
- Conrad, C., Bliemel, M., & Ali-Hassan, H. (2019). The role of flow in learning distributed computing and map reduce concepts using hands-on analogy. *Journal of Information Systems Education, 30*(1), 57–66.
- Cope, K., Vandelanotte, C., Short, C. E., Conroy, D. E., Rhodes, R. E., Jackson, B., Dimmock, J. A., & Rebar, A. L. (2018). Reflective and non-conscious responses to exercise images. *Frontiers in Psychology, 8*, 2272. <https://doi.org/10.3389/fpsyg.2017.02272>
- Cowley, S. J., & Vallee-Tourangeau, F. (2013). *Cognition beyond the brain: Computation, interactivity and human artifice*. Springer.
- Crawford, R. (2014). A multidimensional/non-linear teaching and learning model: Teaching and learning music in an authentic and holistic context. *Music Education Research, 16*, 50–69.
- Culatta, R. (2021). Learning theories. <http://www.instructionaldesign.org/theories>
- Cullen, J. (1999). Socially constructed learning: A commentary on the concept of the learning organisation. *Learning Organization, 6*(1), 45.
- Dada, O. A., & Fagbemi, O. O. (2018). Influence of emotional intelligence and locus of control on academic achievement of underachieving high ability students. *Journal for the Education of Gifted Young Scientists, 6*(2), 14–22. <https://doi.org/10.17478/jegys.2018.74>

- Dalal, T., Gupta, N., & Haddad, R. (2020). Bilateral and unilateral odor processing and odor perception. *Communications Biology*, 3(1), 1–12. <https://doi.org/10.1038/s42003-020-0876-6>
- Damsa, C., Nerland, M., & Andreadakis, Z. E. (2019). An ecological perspective on learner-constructed learning spaces. *British Journal of Educational Technology*, 50(5), 2075–2089.
- Danielsen, A., Nymoën, K., Anderson, E., Câmara, G. S., Langerød, M. T., Thompson, M. R., & London, J. (2019). Where is the beat in that note? Effects of attack, duration, and frequency on the perceived timing of musical and quasi-musical sounds. *Journal of Experimental Psychology: Human Perception and Performance*, 45, 402–418. <https://doi.org/10.1037/xhp0000611>
- Danna, K. (2014). The study of culture and cognition. *Sociological Forum*, 29, 1001–1006. <https://doi.org/10.1111/socf.12133>
- Darwin, C. J. (1971). Dichotic backward masking of complex sounds. *Quarterly Journal of Experimental Psychology*, 23, 386.
- Dasgupta, S., Nair, J., Sarkar, S., Vasu, R. M., & Anand, G. V. (2019). Polarization discrimination imaging of objects hidden in turbid media: Detection of weak sinusoids through stochastic resonance. <http://arxiv.org/abs/1911.00501>
- Dauenhauer, B., Keating, X., Lambdin, D., & Knipe, R., III (2017). A conceptual framework for tiered intervention in physical education. *Journal of Physical Education, Recreation & Dance*, 88(8), 39–45. <https://doi.org/10.1080/07303084.2017.1356769>
- De Castell, S., & Jenson, J. (2004). Paying attention to attention: New economies for learning. *Educational Theory*, 54, 381–397. <https://doi.org/10.1111/j.0013-2004.2004.00026.x>
- Deepankumar, S., Karthi, M., Vasanth, K., & Selvakumar, S. (2019). Insights on modulators in perception of taste modalities: A review. *Nutrition Research Reviews*, 32(2), 231.
- Degel, J., Piper, D., & Koster, E. P. (2001). Implicit learning and implicit memory for odors: The influence of odor identification and retention time. *Chemical Senses*, 26(3), 267.
- Del Viva, M. M., Punzi, G., & Shevell, S. K. (2016). Chromatic information and feature detection in fast visual analysis. *PloS One*, 11(8), 1–14. <https://doi.org/10.1371/journal.pone.0159898>
- Delahaies, A., Rousseau, D., Fasquel, J.-B., & Chapeau-Blondeau, F. (2012). Local-feature-based similarity measure for stochastic resonance in visual perception of spatially structured images. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, 29, 1211–1216. <https://doi.org/10.1364/JOSAA.29.001211>
- Delcomyn, F. (1998). *Foundations of neurobiology*. Freeman.
- Delwiche, J. (2004). The impact of perceptual interactions on perceived flavor. *Food Quality and Preference*, 15, 137–146.
- Denervaud, S., Gentaz, E., Matusz, P. J., & Murray, M. M. (2020). Multisensory gains in simple detection predict global cognition in schoolchildren. *Scientific Reports*, 10(1), 1–11. <https://doi.org/10.1038/s41598-020-58329-4>
- Depper, G. L. (2017). The transmission of environmental values from sources of influence to young adults: Toward an understanding of the process leading to environmental values internalization [ProQuest LLC]. *ProQuest LLC*. <http://>

gateway.proquest.com/openurl?url_ver=Z39.88-2004&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&res_dat=xri:pqm&rft_dat=xri:pqdiss:10616196

- Deroche, M. L. D., Culling, J. F., Chatterjee, M., & Limb, C. J. (2014). Speech recognition against harmonic and inharmonic complexes: Spectral dips and periodicity. *The Journal of the Acoustical Society of America*, 135, 2873–2884. <https://doi.org/10.1121/1.4870056>
- Deroy, O., Spence, C., & Noppeney, U. (2016). Metacognition in multisensory perception. *Trends in Cognitive Sciences*, 20, 736–747. <https://doi.org/10.1016/j.tics.2016.08.006>
- Diamond, R. (1998). *Designing and assessing courses and curricula*. Jossey-Bass.
- Dickinson, S. J., & Pizlo, Z. (2013). *Shape perception in human and computer vision: An interdisciplinary perspective*. Springer.
- Dirks, D. D., & Bower, D. (1970). Effect of forward and backward masking on speech intelligibility. *The Journal of the Acoustical Society of America*, 47, 1003–1008.
- Djordjevic, J., Zatorre, R., Petrides, M., & Jones-Gotman, M. (2004). The mind's nose: Effects of odor and visual imagery on odor detection. *Psychological Science*, 15(3), 143–148. <http://www.jstor.org/stable/40063944>
- Do Carmo Blanco, N. (2016). Attention and associative learning: From neural correlates to psychophysics. <http://www.theses.fr/2016LIL30017>
- Dokka, K., Park, H., Jansen, M., DeAngelis, G. C., & Angelaki, D. E. (2019). Causal inference accounts for heading perception in the presence of object motion. *Proceedings of the National Academy of Sciences of the United States of America*, 116, 9060.
- Dolcos, F., Katsumi, Y., Moore, M., Berggren, N., de Gelder, B., Derakshan, N., Hamm, A. O., Koster, E. H. W., Ladouceur, C. D., Okon-Singer, H., Pegna, A. J., Richter, T., Schweizer, S., Van den Stock, J., Ventura-Bort, C., Weymar, M., & Dolcos, S. (2020). Neural correlates of emotion-attention interactions: From perception, learning, and memory to social cognition, individual differences, and training interventions. *Neuroscience & Biobehavioral Reviews*, 108, 559–601. <https://doi.org/10.1016/j.neubiorev.2019.08.017>
- Van Doorn, G., Watson, S., Timora, J., & Spence, C. (2020). The influence of training and expertise on the multisensory perception of beer: A review. *Food Quality and Preference*, 79, 103778. <https://doi.org/10.1016/j.foodqual.2019.103778>
- Doty, R. L. (2019). *Smell and taste*. Elsevier.
- Drotar, D., Robinson, J., Jeavons, L., & Lester Kirchner, H. (2009). A randomized, controlled evaluation of early intervention: The Born to Learn curriculum. *Child: Care, Health and Development*, 35(5), 643–649. <https://doi.org/10.1111/j.1365-2214.2008.00915.x>
- Dudek, G. (2019). A constructive approach for data-driven randomized learning of feedforward neural networks. <http://arxiv.org/abs/1909.01961>.
- Duffy, V. B., Hayes, J. E., Snyder, L. M., & Bartoshuk, D. J. (2017, January). Taste: Vertebrates—Psychophysics. *Reference module in neuroscience and biobehavioral psychology*. Elsevier. <https://doi.org/10.1016/B978-0-12-809324-5.02907-2>
- Duvdevani-Bar, S., & Edelman, S. (1999). Visual recognition and categorization on the basis of similarities to multiple class prototypes. *International Journal of Computer Vision*, 3, 201.
- Edelman, S., & Duvdevani-Bar, S. (1997a). A model of visual recognition and categorization. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 352(1358), 1191.

- Edelman, S., & Duvdevani-Bar, S. (1997b). Similarity, connectionism, and the problem of representation in vision. *Neural Computation*, 9(4), 701.
- Edwards, C., McInden, M., Cooper, S., Hewertson, H., Kelly, E., Sands, D., & Stokes, A. (2017). Cultivating student expectations of a research-informed curriculum: Developing and promoting pedagogic resonance in the undergraduate student learning pathway. In B. Carnell & D. Fung (Eds.), *Developing the higher education curriculum: Research-based education in practice* (pp. 14–30). UCL Press. <http://www.jstor.org/stable/j.ctt1xhr542.7>
- Efron, R. (1970). The minimum duration of a perception. *Neuropsychologia*, 8(1), 57–63.
- Ege, R., van Opstal, A. J., Bremen, P., & van Wanrooij, M. M. (2018). Testing the precedence effect in the median plane reveals backward spatial masking of sound. *Scientific Reports*, 8(1), 1–10. <https://doi.org/10.1038/s41598-018-26834-2>
- Eggert, S., Ostermeyer, F., Hasselhorn, M., & Bögeholz, S. (2013). Socioscientific decision making in the science classroom: The effect of embedded metacognitive instructions on students' learning outcomes. *Education Research International*, 1–12. <https://doi.org/10.1155/2013/309894>
- Ekman, G., Berglund, B., Berglund, U., & Lindvall, T. (1967). Perceived intensity of odor as a function of time of adaptation. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=edstox&AN=edstox.NIOSH.00159183&site=eds-live&scope=site>
- El-Adl, A., & Alkharusi, H. (2020). Relationships between self-regulated learning strategies, learning motivation and mathematics achievement. *Cypriot Journal of Educational Sciences*, 15(1), 104–111.
- Ellis, C. T., & Turk-Browne, N. B. (2015). Information theoretic complexity affects multisensory perception. *Visual Cognition*, 23, 825–829. <https://doi.org/10.1080/13506285.2015.1093237>
- Ely, M. C. (1992). Effects of timbre on college woodwind players' intonational performance and perception. *Journal of Research in Music Education*, 40(2), 158.
- Endah, E., Zulfiani, Z., & Herlanti, Y. (2018). The role of metacognitive learning strategy in developing students' academic self-concept and learning achievement. *Jurnal Pengajaran MIPA*, 23(1). <https://doi.org/10.18269/jpmipa.v23i1.10507>
- England, T. K., Nagel, G. L., & Salter, S. P. (2020). Using collaborative learning to develop students' soft skills. *Journal of Education for Business*, 95(2), 106–114. <https://doi.org/10.1080/08832323.2019.1599797>
- Enns, C. Z., Abrams, K., & Gross, D. L. (2016). *Internationalizing the undergraduate psychology curriculum: Practical lessons learned at home and abroad*. American Psychological Association.
- Erickson, R. (1982). The “across-fiber pattern” theory: An organizing theory for molar neural function. *Contributions to Sensory Physiology*, 6, 79–110.
- Ericsson, K. A. (2009). *Development of professional expertise: Toward measurement of expert performance and design of optimal learning environments*. Cambridge University Press.
- eRitchie, J. B., & Carlson, T. A. (2016). Neural decoding and “inner” psychophysics: A distance-to-bound approach for linking mind, brain, and behavior. *Frontiers in Neuroscience*, 10, 190. <https://doi.org/10.3389/fnins.2016.00190>

- Esenkaya, T., & Proulx, M. J. (2016). Crossmodal processing and sensory substitution: Is “seeing” with sound and touch a form of perception or cognition? *Behavioral and Brain Sciences*, 39, e241. <https://doi.org/10.1017/S0140525X1500268X>
- Esteban-Guitart, M., & Gee, J. P. (2020). Inside the head and out in the world. An approach to deep teaching and learning. *Multidisciplinary Journal of Educational Research*, 10(1), 1–25. <https://doi.org/10.17583/remie.2020.4868>
- Estes, W. K. (1992). Mental psychophysics of categorization and decision. In H.-G. Geissler, S. Link, & J. T. Townsend. (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Etkina, E., Brookes, D. T., & Planinsic, G. (2019). *Investigative science learning environment: When learning physics mirrors doing physics, IOP concise physics* (p. i). Morgan & Claypool Publishers.
- Fakayode, S. O., Mayes, J. P., Kanipes, M. I., Johnson, D., & Cuthbertson, E. L. (2017). Promoting student learning in criminal justice, stem, and forensic science: Aggie sleuth initiative (AggieSI)-guided inquiry learning experience. *Journal of Criminal Justice Education*, 28(2), 192–206.
- Farbyszewski, R., & Kranc, R. (2013). Olfactory receptors and the mechanism of odor perception. *Polish Annals of Medicine/Rocznik Medyczny*, 20(1), 51–55. <https://doi.org/10.1016/j.poamed.2013.02.002>
- Ferdenzi, C., Joussain, P., Digard, B., Luneau, L., Djordjevic, J., & Bensafi, M. (2017). Individual differences in verbal and non-verbal affective responses to smells: Influence of odor label across cultures. *Chemical Senses*, 42(1), 37–46.
- Ferrè, E. R., & Harris, L. (2017). *Vestibular cognition*. Brill.
- Ferrer, R. (2009). Embodied cognition applied to timbre and musical appreciation: Theoretical foundation. *British Postgraduate Musicology*, 10, 1–8.
- Ferrer, R. (2011). Timbral environments: An ecological approach to the cognition of timbre. *Empirical Musicology Review*, 6(2), 64–74. <https://doi.org/10.18061/1811/51213>
- Field, D. T., Biagi, N., & Inman, L. A. (2020). The role of the ventral intraparietal area (VIP/pVIP) in the perception of object-motion and self-motion. *NeuroImage*, 213. <https://doi.org/10.1016/j.neuroimage.2020.116679>
- Figlio, D., Freese, J., Karbownik, K., & Roth, J. (2017). Socioeconomic status and genetic influences on cognitive development. *Proceedings of the National Academy of Sciences of the United States of America*, 114(51), 13441–13446. <https://doi.org/10.2307/26485143>
- Fincham, F., & Barling, J. (1978). Locus of control and generosity in learning disabled, normal achieving, and gifted children. *Child Development*, 49(2), 530. <https://doi.org/10.2307/1128724>
- Firestone, G. M., McGuire, K., Liang, C., Zhang, N., Blankenship, C. M., Xiang, J., & Zhang, F. (2020). A preliminary study of the effects of attentive music listening on cochlear implant users’ speech perception, quality of life, and behavioral and objective measures of frequency change detection. *Frontiers in Human Neuroscience*, 14, 110.
- Fjaeldstad, A. W., & Fernandes, H. M. (2020). Chemosensory sensitivity after coffee consumption is not static: Short-term effects on gustatory and olfactory sensitivity. *Foods*, 9, 493.

- Flores, V. L., Moran, A., Bernstein, M., & Katz, D. B. (2016). Preexposure to salty and sour taste enhances conditioned taste aversion to novel sucrose. *Learning & Memory*, 23, 221–228.
- Flowerday, T., & Shell, D. F. (2015). Disentangling the effects of interest and choice on learning, engagement, and attitude. *Learning and Individual Differences*, 40, 134–140. <https://doi.org/10.1016/j.lindif.2015.05.003>
- Fogelsanger, A., & Afanador, K. (2017). Parameters of perception: Vision, audition, and twentieth-century music and dance. *Avant. Pismo Awangardy Filozoficzno-Naukowej*, 1, 59. <https://doi.org/10.26913/80102017.0101.0004>
- Fonollosa, J., Neftci, E., & Rabinovich, M. (2015). Learning of chunking sequences in cognition and behavior. *PLoS Computational Biology*, 11(11), e1004592. <https://doi.org/10.1371/journal.pcbi.1004592>
- Francis, G., Rothmayer, M., & Hermens, F. (2004). Analysis and test of laws for backward (metacntrast) masking. *Spatial Vision*, 17(3), 163.
- Freeman, M., & Johnston, C. (2008). Improving teaching and learning through discipline-specific support models. *International Journal of Management in Education*, 7(1), 61.
- Freeman, R. E., & Haskins, M. E. (2014). A step-by-step process for transforming contentious disagreements into creative collaboration. *Strategy & Leadership*, 42(3), 15.
- Freggens, M., Thomas, A., & Pitt, M. A. (2019). A test of linguistic influences in the perceptual organization of speech. *Attention, Perception, & Psychophysics*, 81, 1065–1075. <https://doi.org/10.3758/s13414-019-01699-3>
- Freitas, J., De & Alvarez, G. A. (2018). Your visual system provides all the information you need to make moral judgments about generic visual events. *Cognition*, 178, 133–146. <https://doi.org/10.1016/j.cognition.2018.05.017>
- Frerejean, J., van Merriënboer, J. J. G., Kirschner, P. A., Roex, A., Aertgeerts, B., & Marcellis, M. (2019). Designing instruction for complex learning: 4C/ID in higher education. *European Journal of Education*, 54, 513–524. <https://doi.org/10.1111/ejed.12363>
- Fu, Q., Sun, H., Dienes, Z., & Fu, X. (2018). Implicit sequence learning of chunking and abstract structures. *Consciousness and Cognition*, 62, 42–56. <https://doi.org/10.1016/j.concog.2018.04.010>
- Fu, Y., Kang, Y., & Chen, G. (2020). Stochastic resonance based visual perception using spiking neural networks. *Frontiers in Computational Neuroscience*, 14, 24. <https://doi.org/10.3389/fncom.2020.00024>
- Fujii, K., Sugi, S., & Ando, Y. (2003). Textural properties corresponding to visual perception based on the correlation mechanism in the visual system. *Psychological Research*, 67(3), 197.
- Gabora, L., & Kitto, K. (2013). Concept combination and the origins of complex cognition. <http://arxiv.org/abs/1309.7407>
- Gaete, J., Sametband, I., St George, S., Wulff, D., Tomm, K., & Durán, G. (2020). Realizing relational preferences through transforming interpersonal patterns. *Family Process*, 59(1), 21–35. <https://doi.org/10.1111/famp.12417>
- Gagnon, L., Kupers, R., & Ptito, M. (2015). Neural correlates of taste perception in congenital blindness. *Neuropsychologia*, 70, 227–234. <https://doi.org/10.1016/j.neuropsychologia.2015.02.027>
- Gardner, H. (1999). *The disciplined mind: What all students should understand*. Simon & Schuster.

- Garner, W. R. (1974). Attention: The processing of multiple sources of information. *Handbook of perception, volume II: Psychophysical judgment and measurement* (pp. 23–59). Academic Press. <https://doi.org/10.1016/B978-0-12-161902-2.50009-2>
- Gau, R., & Noppeney, U. (2016). How prior expectations shape multisensory perception. *NeuroImage*, 124(Part A), 876–886. <https://doi.org/10.1016/j.neuroimage.2015.09.045>
- Gayet, S., Douw, I., van der Burg, V., Van der Stigchel, S., & Paffen, C. L. E. (2020). Hide and seek: Directing top-down attention is not sufficient for accelerating conscious access. *Cortex*, 122, 235–252. <https://doi.org/10.1016/j.cortex.2018.08.027>
- Gedera, D. S. P., & Williams, J. (2016). *Activity theory in education: Research and practice*. Sense.
- Geissler, H.-G., Link, S., & Townsend, J. T. (Eds.). (2013). *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Germann, C. B. (2019). A psychophysical investigation of quantum cognition: An interdisciplinary synthesis. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.772592>
- Gescheider, G. A., Verrillo, R. T., & Wright, J. H. (2009). *Information-processing channels in the tactile sensory system: A psychophysical and physiological analysis*. Psychology Press.
- Gilbert, A., Martin, R., & Kemp, S. (1996). Cross-modal correspondence between vision and olfaction: The color of smells. *American Journal of Psychology*, 109, 335–351. <https://doi.org/10.2307/1423010>
- Gjorgjieva, J., Meister, M., & Sompolinsky, H. (2019). Functional diversity among sensory neurons from efficient coding principles. *PLoS Computational Biology*, 15(11), 1.
- Glick, M. (2011). *The instructional leader and the brain: Using neuroscience to inform practice*. Corwin Press. <https://doi.org/10.4135/9781483387437>
- Gockel, H. E., Alsindi, S., Hardy, C., & Carlyon, R. P. (2017). Effect of context on the contribution of individual harmonics to residue pitch. *Journal of the Association for Research in Otolaryngology*, 18, 803–813. <https://doi.org/10.1007/s10162-017-0636-6>
- Gökçearslan, Ş., & Alper, A. (2015). The effect of locus of control on learners' sense of community and academic success in the context of online learning communities. *Internet and Higher Education*, 27, 64–73. <https://doi.org/10.1016/j.iheduc.2015.06.003>
- Goldstone, R., Nosofsky, R. M., Steyvers, M., Shiffrin, R. M., Raaijmakers, J. G. W., & Criss, A. (2015). *Cognitive modeling in perception and memory: A festschrift for Richard M. Shiffrin* (1st ed.). Psychology Press.
- González-Sanmamed, M., Muñoz-Carril, P.-C., & Santos-Caamaño, F.-J. (2019). Key components of learning ecologies: A Delphi assessment. *British Journal of Educational Technology*, 50(4), 1639–1655.
- Gooding, D. C. (2004). Cognition, construction and culture: Visual theories in the sciences. *Journal of Cognition and Culture*, 4, 551–593. <https://doi.org/10.1163/1568537042484896>
- Gooding, D. C. (2006). Visual cognition: Where cognition and culture meet. *Philosophy of Science*, 73, 688. <https://doi.org/10.1086/518523>

- Goodman, R., & Tremblay, L. (2018). Using proprioception to control ongoing actions: Dominance of vision or altered proprioceptive weighing? *Experimental Brain Research*, 236(7), 1897–1910. <https://doi.org/10.1007/s00221-018-5258-7>
- Gordon, I., Voos, A. C., Bennett, R. H., Bolling, D. Z., Pelphrey, K. A., & Kaiser, M. D. (2013). Brain mechanisms for processing affective touch. *Human Brain Mapping*, 34, 914–922. <https://doi.org/10.1002/hbm.21480>
- Goris, R. L. T., Putzeys, T., Wagemans, J., & Wichmann, F. A. (2013). A neural population model for visual pattern detection. *Psychological Review*, 120, 472–496. <https://doi.org/10.1037/a0033136>
- Goswami, U., Fosker, T., Huss, M., Mead, N., & Szűcs, D. (2011). Rise time and formant transition duration in the discrimination of speech sounds: The Ba-Wa distinction in developmental dyslexia. *Developmental Science*, 14(1), 34–43. <https://doi.org/10.1111/j.1467-7687.2010.00955.x>
- Gouras, P. (1995). Color vision, edited by H. Kolb, E. Fernandez, & R. Nelson. <https://webvision.med.utah.edu/book/part-vii-color-vision/color-vision/>
- Graff, D., & Clark, M. A. (2019). Communication modes in collaboration: An empirical assessment of metaphors, visualization, and narratives in multidisciplinary design student teams. *International Journal of Technology and Design Education*, 29(1), 197–215.
- Green, B. G., & Nachtigal, D. (2012). Somatosensory factors in taste perception: Effects of active tasting and solution temperature. *Physiology & Behavior*, 107(4), 488–495. <https://doi.org/10.1016/j.physbeh.2012.05.010>
- Green, D., & Cassani, M. K. (2020). Scenarios, stakeholders, autonomy, and choice: Using role-play to facilitate transformational learning experiences. *Journal of College Science Teaching*, 49(5), 42–45.
- Griffiths, J. (2002). The varieties of nature experience. *Worldviews*, 6, 253–275. <http://www.jstor.org/stable/43799338>
- van der Groen, O., Tang, M. F., Wenderoth, N., & Mattingley, J. B. (2018). Stochastic resonance enhances the rate of evidence accumulation during combined brain stimulation and perceptual decision-making. *PLoS Computational Biology*, 14(7), 1–17. <https://doi.org/10.1371/journal.pcbi.1006301>
- Groh, A. (2016). Culture, language and thought: Field studies on colour concepts. *Journal of Cognition and Culture*, 16(1/2), 83–106. <https://doi.org/10.1163/15685373-12342169>
- Grossberg, S. (2019). The resonant brain: How attentive conscious seeing regulates action sequences that interact with attentive cognitive learning, recognition, and prediction. *Attention, Perception, & Psychophysics*, 81, 2237–2264. <https://doi.org/10.3758/s13414-019-01789-2>
- Gui, Z., Peng, D., Wu, H., & Long, X. (2020). MSGC: Multi-scale grid clustering by fusing analytical granularity and visual cognition for detecting hierarchical spatial patterns. *Future Generation Computer Systems*, 112, 1038–1056. <https://doi.org/10.1016/j.future.2020.06.053>
- Guirao, M., Greco Driano, E. J., Evin, D., & Calviño, A. (2013). Psychophysical assessments of sourness in citric acid-ethanol mixtures. *Perceptual and Motor Skills*, 117, 868–880.
- Gunduz, M. E., Pinto, C. B., Saleh Velez, F. G., Duarte, D., Pacheco-Barrios, K., Lopes, F., & Fregni, F. (2020). Motor cortex reorganization in limb amputation: A

- systematic review of TMS motor mapping studies. *Frontiers in Neuroscience*, 14, 314.
- Gyr, J., & Pribram, K. (1994). Psychophysics: The self-referent holonomic observer-observed relation. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&doc=ETOCCN005798607&indx=1&recIds=ETOCCN005798607
- Hackmann, D. G., Malin, J. R., Fuller Hamilton, A. N., & O'Donnell, L. (2019). Supporting personalized learning through individualized learning plans. *Clearing House*, 92(1/2), 63–70. <https://doi.org/10.1080/00098655.2019.1571990>
- Haller, C. S. (2014). Neuroscience needs creativity: The implications of reliable instruments that fail to measure a loosely defined latent variable. *Frontiers in Human Neuroscience*, 8, 869. <https://doi.org/10.3389/fnhum.2014.00869>
- Halverson, L. R., & Graham, C. R. (2019). Learner engagement in blended learning environments: A conceptual framework. *Online Learning*, 23(2), 145.
- Hamilton, D. (2013). *Towards a theory of schooling (Routledge Revivals)*. Routledge.
- Hampton, A. J., Nye, B. D., Pavlik, P. I., Swartout, W. R., Graesser, A. C., & Gunderson, J. (2018). *Mitigating knowledge decay from instruction with voluntary use of an adaptive learning system. Lecture notes in computer science* (p. 119). Springer.
- Harell, K. F. (2020). The value of conflict and disagreement in democratic teacher education. *Democracy and Education*, 28(1), 1–8.
- Hargrove, R. (1998). *Mastering the art of creative collaboration*. McGraw-Hill.
- Harlow, S., & Cummings, R. (2002). Technologies and levels of learning: A Gregory Bateson perspective. *Computers in the Schools*, 19(1/2), 95–100. https://doi.org/10.1300/J025v19n01_08
- Healy, R. L. (2015). Ethical thinking in a disciplinary context: The ethical development of undergraduates and expectations of tutors in the arts, social and pure sciences. <http://hdl.handle.net/10034/267472>
- van Hedger, S. C., Heald, S. L. M., & Nusbaum, H. C. (2019). Absolute pitch can be learned by some adults. *PloS One*, 14(9), 1–25. <https://doi.org/10.1371/journal.pone.0223047>
- Henning, D. D. (2019). A complex systems perspective on multiple language learning: An examination of self-regulation, flow, mindset, grit, expertise and expert performance. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.795209>
- Heo, J., Park, J., Jeong, H., Kim, K. J., Lee, J., Yang, E., & Hwang, S. J. (2020). *Cost-effective interactive attention learning with neural attention processes*. <http://arxiv.org/abs/2006.05419>
- Herlo, D. (2012). Adaptive learning influence in education. *Journal of Education/ Educatia Plus*, 8(2), 131–139.
- Herrmann, B., & Johnsrude, I. S. (2018). Attentional state modulates the effect of an irrelevant stimulus dimension on perception. *Journal of Experimental Psychology: Human Perception and Performance*, 44(1), 89–105. <https://doi.org/10.1037/xhp0000432>
- Herrmann, B., Maess, B., Kalberlah, C., Haynes, J.-D., & Friederici, A. D. (2012). Auditory perception and syntactic cognition: Brain activity-based decoding within and across subjects. *European Journal of Neuroscience*, 35(9), 1488–1496. <https://doi.org/10.1111/j.1460-9568.2012.08053.x>

- Hill, C. S., & Bennett, D. J. (2014). *Sensory integration and the unity of consciousness*. The MIT Press.
- Hirshkowitz, A., & Wilcox, T. (2013). Infants' ability to extract three-dimensional shape from coherent motion. *Infant Behavior and Development*, 36(4), 863–872. <https://doi.org/10.1016/j.infbeh.2013.09.003>
- Hladik, C.-M., Pasquet, P., Danilova, V., & Hellekant, G. (2003). The evolution of taste perception: Psychophysics and taste nerves tell the same story in human and non-human primates. *Comptes Rendus - Palevol*, 2(4), 281–287. [https://doi.org/10.1016/S1631-0683\(03\)00053-8](https://doi.org/10.1016/S1631-0683(03)00053-8)
- Hodges, R., Payne, E. M., Morgan, K., Johnston-Ashton, K., & Leblanc, R. (2019). Salient factors for student success gained through a learning frameworks course. *Journal of College Reading and Learning*, 49(2), 129–145. <https://doi.org/10.1080/10790195.2019.1583083>
- Hofer, S. I., Schumacher, R., Rubin, H., & Stern, E. (2018). Enhancing physics learning with cognitively activating instruction: A quasi-experimental classroom intervention study. *Journal of Educational Psychology*, 110(8), 1175–1191. <https://doi.org/10.1037/edu0000266>
- Holley, A., & Sicard, G. (1994). Olfactory receptors and neural coding of odors. *M S-Medecine Sciences*, 10(11), 1091.
- Hollins, M., & Bensmaïa, S. J. (2007). The coding of roughness. *Canadian Journal of Experimental Psychology*, 61(3), 184.
- Hollins, M., Bensmaïa, S., & Roy, E. (2002). Vibrotactation and texture perception. *Behavioural Brain Research*, 135, 51–56. [https://doi.org/10.1016/S0166-4328\(02\)00154-7](https://doi.org/10.1016/S0166-4328(02)00154-7)
- Hollins, M., Faldowski, R., Rao, S., & Young, F. (1993). Perceptual dimensions of tactile surface texture: A multidimensional scaling analysis. *Perception & Psychophysics*, 54, 697.
- Hollins, M., & Risner, S. R. (2000). Evidence for the duplex theory of tactile texture perception. *Perception & Psychophysics*, 62(4), 695.
- Holman, E. W., & Marley, A. A. J. (1974). Stimulus and response measurement. *Handbook of perception, volume II: Psychophysical judgment and measurement* (pp. 173–213). Academic Press. <https://doi.org/10.1016/B978-0-12-161902-2.50014-6>
- Hoogeveen, H. R., Dalenberg, J. R., Renken, R. J., ter Horst, G. J., & Lorist, M. M. (2015). Neural processing of basic tastes in healthy young and older adults—An fMRI study. *NeuroImage*, 119, 1–12. <https://doi.org/10.1016/j.neuroimage.2015.06.017>
- Hook, C. J., & Farah, M. J. (2013). Neuroscience for educators: What are they seeking, and what are they finding? *Neuroethics*, 6, 331–341. <https://doi.org/10.1007/s12152-012-9159-3>
- Houpt, J. W., & Blaha, L. M. (2016a). *Mathematical models of perception and cognition volume I: A festschrift for James T. Townsend*. Psychology Press.
- Houpt, J. W., & Blaha, L. M. (2016b). *Mathematical models of perception and cognition volume II: A festschrift for James T. Townsend*. Routledge.
- Housen, A., Simoons, H., & Ellis, N. C. (2016). Salience, cognition, language complexity, and complex adaptive systems. *Studies in Second Language Acquisition*, 38, 341.
- Houser, M. L., & Frymier, A. B. (2009). The role of student characteristics and teacher behaviors in students' learner empowerment. *Communication Education*, 58(1), 35–53.

- Howard-Jones, P., Varma, S., Ansari, D., Butterworth, B., De Smedt, B., Goswami, U., & Thomas, M. S. C. (2016). The principles and practices of educational neuroscience: Comment on Bowers (2016). *Psychological Review*, 123(5), 620–627. <https://doi.org/10.1037/rev0000036>
- Huang, B., Salgia, S., & Zhao, Q. (2019). Disagreement-based active learning in online settings. <http://arxiv.org/abs/1904.09056>.
- Huang, C.-B., Zhou, J., Zhou, Y., & Lu, Z.-L. (2010). Contrast and phase combination in binocular vision. *PLoS One*, 5(12), 1.
- Huberman, M., Bitter, C., Anthony, J., O'Day, J., American Institutes for Research, & New York University, R. A. for N. Y. C. S. (2014). The shape of deeper learning: Strategies, structures, and cultures in deeper learning network high schools. Findings from the study of deeper learning opportunities and outcomes: Report 1. American Institutes for Research.
- Hui, Y. K., Li, C., Qian, S., & Kwok, L. F. (2019). Learning engagement via promoting situational interest in a blended learning environment. *Journal of Computing in Higher Education*, 31(2), 408–425.
- Huijser, H., Kek, M., Abawi, L., & Lawrence, J. (2019). Leveraging creativity to engage students in an agile ecology for learning. *Student Engagement in Higher Education Journal*, 2(3), 138–153. <https://sehej.raise-network.com/raise/article/view/880>
- Huisman, J. L. A., & Majid, A. (2018). Psycholinguistic variables matter in odor naming. *Memory & Cognition*, 46(4), 577–588. <https://doi.org/10.3758/s13421-017-0785-1>
- Hulusic, V., Harvey, C., Debattista, K., Tsingos, N., Walker, S., Howard, D., & Chalmers, A. (2012). Acoustic rendering and auditory-visual cross-modal perception and interaction. *Computer Graphics Forum*, 31(1), 102–131. <https://doi.org/10.1111/j.1467-8659.2011.02086.x>
- Humes, L. E. (1979). Perception of the simple difference tone (f2-f1). *Journal of the Acoustical Society of America*, 66, 1064–1074.
- Hüttermann, S., Ford, P. R., Williams, A. M., Varga, M., & Smeeton, N. J. (2019). Attention, perception, and action in a simulated decision-making task. *Journal of Sport & Exercise Psychology*, 41(4), 230–241. <https://doi.org/10.1123/jsep.2018-0177>
- Ifenthaler, D., Gibson, D., & Zheng, L. (2018). Attributes of engagement in challenge-based digital learning environments. *International Association for Development of the Information Society*. <https://eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=ED600598>
- IJntema, W., Sangers, J., Hogenboom, F., & Frasincar, F. (2012). A lexico-semantic pattern language for learning ontology instances from text. *Journal of Web Semantics*, 15, 37–50. <https://doi.org/10.1016/j.websem.2012.01.002>
- Imai, S. (1992). Fundamentals of cognitive judgments of pattern. In H.-G. Geissler, S. W. Link, & J. T. Townsend (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Indow, T. (1974). Applications of multidimensional scaling in perception. *Handbook of perception, volume II: Psychophysical judgment and measurement* (pp. 493–531). Academic Press. <https://doi.org/10.1016/B978-0-12-161902-2.50021-3>

- Itzcovich, E., Riani, M., & Sannita, W. G. (2017). Stochastic resonance improves vision in the severely impaired. *Scientific Reports*, 7(1), 12840. <https://doi.org/10.1038/s41598-017-12906-2>
- Ittyerah, M. (2017). Emerging trends in the multimodal nature of cognition: Touch and handedness. *Frontiers in Psychology*, 8, 844. <https://doi.org/10.3389/fpsyg.2017.00844>
- Jackson, H. M., & Moore, B. C. J. (2013). The dominant region for the pitch of complex tones with low fundamental frequencies. *Journal of the Acoustical Society of America*, 134(2), 1193.
- Jacobs, A. M., & Grainger, J. (1998). *Localist connectionist approaches to human cognition*. Psychology Press.
- Jacobsen, M. E. (1999). *The gifted adult: A revolutionary guide for liberating everyday genius*. Ballantine Books.
- Jaeggi, S. M., & Shah, P. (2018). Editorial special topic: Neuroscience, learning, and educational practice-challenges, promises, and applications. *AERA Open*, 4(1), 2332858418756053. <https://doi.org/10.1177/2332858418756053>
- Jamal, Y., Lacey, S., Nygaard, L., & Sathian, K. (2017). Interactions between auditory elevation, auditory pitch and visual elevation during multisensory perception. *Multisensory Research*, 30(3), 287–306. <https://doi.org/10.1163/22134808-00002553>
- Jamieson, R. K., Vokey, J. R., & Mewhort, D. J. (2017). Implicit learning is order dependent. *Psychological Research*, 81(1), 204.
- Jampolsky, G. G., & Jampolsky, G. C. (1970). Use of hypnosis and sensory motor stimulation to aid children with learning problems. *Journal of Learning Disabilities*, 3, 570–575. <https://doi.org/10.1177/002221947000301104>
- Janzen, K. J., Perry, B., & Edwards, M. (2012). The entangled web: The quantum perspective of learning, quantum learning environments and web technology. *Ubiquitous Learning: An International Journal*, 4(2), 1–15. <https://doi.org/10.18848/1835-9795/CGP/v04i02/40328>
- Jauhiainen, T., Häkkinen, V., & Schaffrath, D. (2015). *From psychophysics and psychophysiology to phenomenology of perception: The ontological and epistemological approach of Yrjö Reenpää* (Kindle edition). ISBN 978-952-93-6055-0.
- Javed, M., Bhattacharjee, T., & Nagabhushan, P. (2019). Enhancement of variably illuminated document images through noise-induced stochastic resonance. *IET Image Processing*, 13, 2562–2571. <https://doi.org/10.1049/iet-ipr.2019.0145>
- Jeng, Y.-L., & Huang, Y.-M. (2019). Dynamic learning paths framework based on collective intelligence from learners. *Computers in Human Behavior*, 100, 242.
- Jensen, A., Merz, S., Spence, C., & Frings, C. (2020). Perception it is: Processing level in multisensory selection. *Attention, Perception, & Psychophysics*, 82, 1391–1406. <https://doi.org/10.3758/s13414-019-01830-4>
- Jensen, E. (2008). *Brain-based learning: The new paradigm of teaching* (2nd ed.). Corwin.
- Jiang, S., Shen, J., & Smith, B. E. (2019). Designing discipline-specific roles for interdisciplinary learning: Two comparative cases in an afterschool STEM + L programme. *International Journal of Science Education*, 41(6), 803.
- Jiang, W., Liu, J., Zhang, X., Wang, S., & Jiang, Y. (2020). Analysis and modeling of timbre perception features in musical sounds. *Applied Sciences*, 10, 789. <https://doi.org/10.3390/app10030789>

- Johnson, D., & Samora, D. (2016). The potential transformation of higher education through computer-based adaptive learning systems. *Global Education Journal*, 2016, 1–17.
- Jonas, C., Spiller, M. J., Hibbard, P. B., & Proulx, M. (2017). Introduction to the special issue on individual differences in multisensory perception: An overview. *Multisensory Research*, 30(6), 461–466. <https://doi.org/10.1163/22134808-00002594>
- Jones, F. N. (1974). Overview of psychophysical scaling methods. *Handbook of perception, volume II: Psychophysical judgment and measurement* (pp. 343–360). Academic Press. <https://doi.org/10.1016/B978-0-12-161902-2.50017-1>
- Joo, Y. J., Lim, K. Y., & Kim, J. (2013). Locus of control, self-efficacy, and task value as predictors of learning outcome in an online university context. *Computers & Education*, 62, 149–158. <https://doi.org/10.1016/j.compedu.2012.10.027>
- Joye, S. R. (2017). Tuning the mind in the frequency domain: Karl Pribram's holonomic brain theory and David Bohm's implicate order. *Cosmos and History*, 13, 166.
- Jürgens, R., & Becker, W. (2006). Perception of angular displacement without landmarks: Evidence for Bayesian fusion of vestibular, optokinetic, podokinesthetic, and cognitive information. *Experimental Brain Research*, 174, 528–543.
- Kaepler, K. (2019). How differences in ratings of odors and odor labels are associated with identification mechanisms. *Chemosensory Perception*, 12, 18.
- Kaepler, K., & Mueller, F. (2013). Odor classification: A review of factors influencing perception-based odor arrangements. *Chemical Senses*, 38, 189–209. <https://doi.org/10.1093/chemse/bjs141>
- Kaiser, A. (2018). Learning from the future meets Bateson's levels of learning. *Learning Organization*, 25, 237–247. <https://doi.org/10.1108/TLO-06-2017-0065>
- Kakosimos, K. E. (2015). Example of a micro-adaptive instruction methodology for the improvement of flipped-classrooms and adaptive-learning based on advanced blended-learning tools. *Education for Chemical Engineers*, 12, 1–11. <https://doi.org/10.1016/j.ece.2015.06.001>
- Kalloniatis, M., & Luu, C. (1995a). Color perception, edited by H. Kolb, E. Fernandez, & R. Nelson. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/light-and-dark-adaptation/>
- Kalloniatis, M., & Luu, C. (1995b). Light and dark adaptation, edited by H. Kolb, E. Fernandez, & R. Nelson. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/light-and-dark-adaptation/>
- Kalloniatis, M., & Luu, C. (1995c). Perception of depth. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/perception-of-depth/>
- Kalloniatis, M., & Luu, C. (1995d). Psychophysics of vision. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/psychophysics-of-vision/>
- Kalloniatis, M., & Luu, C. (1995e). Space perception. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/space-perception/>
- Kalloniatis, M., & Luu, C. (1995f). Temporal resolution, edited by H. Kolb, E. Fernandez, & R. Nelson. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/temporal-resolution/>
- Kalloniatis, M., & Luu, C. (1995g). Visual acuity, edited by H. Kolb, E. Fernandez, & R. Nelson. <https://webvision.med.utah.edu/book/part-viii-psycho-physics-of-vision/visual-acuity/>

- Kandil, F. I., & Fahle, M. (2003). Mechanisms of time-based figure-ground segregation. *European Journal of Neuroscience*, 18, 2874–2882. <https://doi.org/10.1111/j.1460-9568.2003.03022.x>
- Karpati, A., Freedman, K., Castro, J. C., Kallio, T. M., & Heijnen, E. (2017). Collaboration in visual culture learning communities: Towards a synergy of individual and collective creative practice. *International Journal of Art and Design Education*, 36, 164–175. <https://doi.org/10.1111/jade.12099>
- Kartoğlu, Ü., Siagian, R. C., & Reeves, T. C. (2020). Creating a “good clinical practices inspection” authentic online learning environment through educational design research. *TechTrends: Linking Research & Practice to Improve Learning*, 64, 616–627. <https://doi.org/10.1007/s11528-020-00509-0>
- Kass, M. D., Rosenthal, M. C., Pottackal, J., & McGann, J. P. (2013). Fear learning enhances neural responses to threat-predictive sensory stimuli. *Science*, 342, 1389. <https://doi.org/10.1126/science.1244916>
- Kawaguchi, N., & Osa, A. (2019). Simulation of image enhancement by stochastic resonance in the human vision system. *Proceedings of SPIE*, 11049, 1.
- Kayser, S. J., & Kayser, C. (2018). Trial by trial dependencies in multisensory perception and their correlates in dynamic brain activity. *Scientific Reports*, 8(1), 1–11. <https://doi.org/10.1038/s41598-018-22137-8>
- Kell, A. J., & McDermott, J. H. (2019). Deep neural network models of sensory systems: Windows onto the role of task constraints. *Current Opinion in Neurobiology*, 55, 121.
- Kent, C., & Rechavi, A. (2020). Deconstructing online social learning: Network analysis of the creation, consumption and organization types of interactions. *International Journal of Research and Method in Education*, 43, 16.
- Khoroshilov, D. A. (2019). Digital mind: Mediatization of social cognition in culture, science and art. *Социальная Психология и Общество [Social Psychology and Society]*, 10(4), 9–22. <https://doi.org/10.17759/sps.2019100402>
- Kim, A. (2006). Empowerment learning: True learner-centered learning in online environment. *Ed Media Proceedings*, 1109. <https://www.learntechlib.org/primary/p/23144/>
- Kim, H., & Cameron, C. E. (2016). Implications of visuospatial skills and executive functions for learning mathematics: Evidence from children with autism and Williams syndrome. *AERA Open*, 2(4). <https://doi.org/10.1177/2332858416675124>
- Kim, S. (2018). Study on pedagogical implications of game based on activity theory. *Indian Journal of Public Health Research & Development*, 9, 1001–1004.
- Kim, S. K., Shin, S. J., Shin, J., & Miller, D. R. (2018). Social networks and individual creativity: The role of individual differences. *Journal of Creative Behavior*, 52, 285–296. <https://doi.org/10.1002/jocb.153>
- Kim, Y. E., Morton, B. G., Gregorio, J., Rosen, D. S., Edouard, K., & Vallett, R. (2019). Enabling creative collaboration for all levels of learning. *Proceedings of the National Academy of Sciences of the United States*, 116(6), 1878. <https://doi.org/10.1073/pnas.1808678115>
- King, A. (2016). The stability of small atoms and molecules: A quantum mechanical three-body study. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.680857>
- Kingdom, F. A. A., & Prins, N. (2016). *Psychophysics: A practical introduction* (2nd ed.). Academic Press.

- Klatzky, R. L., & Lederman, S. J. (n.d.). Modality specificity in cognition: The case of touch, p. 233. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&docx=ETOCCN039069763&indx=1&recIds=ETOCCN039069763
- Kobayashi, M., & Ichikawa, M. (2016). Emotions evoked by viewing pictures may affect temporal aspects of visual processing. *Japanese Psychological Research*, 58, 273–283. <https://doi.org/10.1111/jpr.12125>
- Kochanska, G. (1994). Beyond cognition: Expanding the search for the early roots of internalization and conscience. *Developmental Psychology*, 30(1), 20.
- Kojima, N., Matsumoto, N., Yamashiro, M., & Lamsal, B. (2019). Proposing autotuning image enhancement method using stochastic resonance. *Electronics and Communications in Japan*, 102(4), 35–46. <https://doi.org/10.1002/ecj.12160>
- Koksal, H. (2019). An exercise regarding values education with an authentic learning approach. *International Online Journal of Educational Sciences*, 11, 311–329. <https://doi.org/10.15345/ijoes.2019.04.021>
- Kong, Y.-Y., Mullangi, A., & Marozeau, J. (2012). Timbre and speech perception in bimodal and bilateral cochlear-implant listeners. *Ear and Hearing*, 33, 645–659. <https://doi.org/10.1097/AUD.0b013e318252caae>
- Kozhevnikov, M., Evans, C., & Kosslyn, S. (2014). Cognitive style as environmentally sensitive individual differences in cognition: A modern synthesis and applications in education, business, and management. *Psychological Science in the Public Interest*, 15(1), 3–33. <http://www.jstor.org/stable/44151082>
- Kratskin, I. L. (1995). Functional anatomy, central connections, and neurochemistry of the mammalian olfactory bulb. In R. Doty (Ed.), *Handbook of olfaction and gustation*. Marcel Dekker, Inc. <http://www.gbv.de/dms/ohb-opac/165453338.pdf>
- Krauss, P., Tziridis, K., Schilling, A., & Schulze, H. (2018). Cross-modal stochastic resonance as a universal principle to enhance sensory processing. *Frontiers in Neuroscience*, 12, 578. <https://doi.org/10.3389/fnins.2018.00578>
- Kricos, P., Robert-Ribes, J., & Bernstein, L. E. (1996). Human speechreading: Learning and psychophysics. *NATO ASI Series F Computer and Systems Sciences*, p. 519. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&doc=ETOCRNO13377753&indx=1&recIds=ETOCRNO13377753
- Krumhansl, C. L., & Iverson, P. (1992). Perceptual interactions between musical pitch and timbre. *Journal of Experimental Psychology: Human Perception and Performance*, 18(3), 739.
- Kuang, J., & Liberman, M. (2018). Integrating voice quality cues in the pitch perception of speech and non-speech utterances. *Frontiers in Psychology*, 9, 2147. <https://doi.org/10.3389/fpsyg.2018.02147>
- Kundu, A., & Sarkar, S. (2015). Stochastic resonance in visual sensitivity. *Biological Cybernetics*, 109, 241–254. <https://doi.org/10.1007/s00422-014-0638-y>
- Kupenda, A. M. (2018). Collaborative learning in the constitutional law classroom: Adapting the concept of inevitable disagreement in seven steps. *Journal of Legal Education*, 68, 284–302.
- Kutanıs, R. Öz., Mesci, M., & Övdür, Z. (2011). The effects of locus of control on learning performance: A case of an academic organization. *Journal of Economic & Social Studies (JECOSS)*, 1(2), 113–136. <https://doi.org/10.14706/jecoss11125>

- Kutter, A., Hanesch, C., Rauh, C., & Delgado, A. (2011). Impact of proprioception and tactile sensations in the mouth on the perceived thickness of semi-solid foods. *Food Quality and Preference*, 22(2), 193–197. <https://doi.org/10.1016/j.foodqual.2010.09.006>
- Labouta, H. I., Kenny, N. A., Dyjur, P., Li, R., Anikovskiy, M., Reid, L. F., & Cramb, D. T. (2019). Investigating the alignment of intended, enacted, and perceived learning outcomes in an authentic research-based science program. *Canadian Journal for the Scholarship of Teaching and Learning*, 10(3), n3. <https://eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=EJ1242390>
- Lachmann, T., & Weis, T. (2018). Invariances in human information processing. *Invariances in human information processing* (1st ed.). Routledge.
- Langers, D., Backes, W., & van Dijk, P. (n.d.). Brain activation in relation to sound intensity and loudness, p. 227. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&doc=ETOCCN067516600&indx=1&recIds=ETOCCN067516600
- Lawless, H. T. (2013). *Quantitative sensory analysis: Psychophysics, models and intelligent design* (1st ed.). Wiley.
- Lawton, T., & Stephey, D. (2009). Field of view, figure/ground discrimination, sequential memory, and navigation skills improve following training on motion discrimination in older adults. *Optometry & Vision Development*, 40(2), 82–93.
- Le Cornu, A. (2009). Meaning, internalization, and externalization: Toward a fuller understanding of the process of reflection and its role in the construction of the self. *Adult Education Quarterly*, 59, 279–297. <https://doi.org/10.1177/0741713609331478>
- LeDoux, J. E. (2020). How does the non-conscious become conscious? *Current Biology*, 30(5), R196–R199. <https://doi.org/10.1016/j.cub.2020.01.033>
- Lee, H. C. (2005). Visual psychophysics. Introduction to color imaging science, p. 321. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=edb&AN=77047373&site=eds-live&scope=site>
- Lee, H. S., & Ha, H. (2019). Metacognitive judgments of prior material facilitate the learning of new material: The forward effect of metacognitive judgments in inductive learning. *Journal of Educational Psychology*, 111, 1189–1201. <https://doi.org/10.1037/edu0000339>
- Lee, K. (2020). Autoethnography as an authentic learning activity in online doctoral education: An integrated approach to authentic learning. *TechTrends*, 64, 570–580. <https://doi.org/10.1007/s11528-020-00508-1>
- Lee, Y.-S., Youn, J.-J., & Lee, K.-H. (2018). Effects of satisfaction of team teaching class utilizing movie contents on self-directed ability and learners' learning flow. *Indian Journal of Public Health Research & Development*, 9, 562–568.
- Leeniva, P. (2019). Comparative analysis of auditory perception based on educational background differences. *International Journal of Instruction*, 12, 227–242. <https://doi.org/10.29333/iji.2019.12215a>
- Leeuwenberg, E. L. J., & van der Helm, P. A. (2013). *Structural information theory: The simplicity of visual form*. Cambridge University Press.
- Lehky, S. (1983). A model of binocular brightness and binaural loudness perception in humans with general applications to nonlinear summation of sensory inputs. *Biological Cybernetics*, 49(2), 89.
- Le Tellier, J. P. (2006). *Quantum learning & instructional leadership in practice*. Corwin Press.

- Lewin, C., Cranmer, S., & McNicol, S. (2018). Developing digital pedagogy through learning design: An activity theory perspective. *British Journal of Educational Technology*, 49, 1131–1144.
- Lewin, K. (1947). Frontiers in group dynamics: Concept, method and reality in social science; social equilibria and social change. *Human Relations*, 1, 5–41.
- Li, F. (2013). Taste perception: From the tongue to the testis. *Molecular Human Reproduction*, 19, 349–360. <https://doi.org/10.1093/molehr/gat009>
- Licon, C. C., Bosc, G., Sabri, M., Mantel, M., Fournel, A., Bushdid, C., Golebiowski, J., Robardet, C., Plantevit, M., Kaytoue, M., & Bensafi, M. (2019). Chemical features mining provides new descriptive structure-odor relationships. *PLoS Computational Biology*, 15(4), e1006945. <https://doi.org/10.1371/journal.pcbi.1006945>
- Lincoln, N. (2019). Adaptive asymmetrical signal detection and synthesis methods and systems. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=edspgr&AN=edspgr.10521657&site=eds-live&scope=site>
- Linhares, A., Chada, D. M., & Aranha, C. N. (2011). The emergence of miller's magic number on a sparse distributed memory. *PLoS One*, 6, 1–6.
- Liu, F., Ren, X., Zhao, G., Sun, X., & Li, L. (2020). Layer-wise cross-view decoding for sequence-to-sequence learning. <https://arxiv.org/abs/2005.08081>
- Liu, S.-F., Lee, A.-S., Lin, J.-Y., Liang, Y.-W., & Su, W.-C. (2010). A study of the differences in image memory and preference between male and female visual cognition. *International Journal of Organizational Innovation*, 3(2), 114–128.
- Liu, Z., Lu, W., & Seger, C. A. (2019). Perceptual and categorical processing and representation in color categorization. *Brain and Cognition*, 136, 103617. <https://doi.org/10.1016/j.bandc.2019.103617>
- Ljunggren, G., & Dornic, S. (Eds.). (1989). *Psychophysics in action*. Springer-Verlag.
- Lo Bianco, J., & Bal, A. (2016). *Learning from difference: Comparative accounts of multicultural education*. Springer.
- Losier, T., Lefebvre, C., Doro, M., Dell'Acqua, R., & Jolicœur, P. (2017). Backward masking interrupts spatial attention, slows downstream processing, and limits conscious perception. *Consciousness and Cognition*, 54, 101–113. <https://doi.org/10.1016/j.concog.2017.04.005>
- Lou, A. J., & Jaeggi, S. M. (2020). Reducing the prior-knowledge achievement gap by using technology-assisted guided learning in an undergraduate chemistry course. *Journal of Research in Science Teaching*, 57(3), 368–392.
- Lowder, M. W., & Ferreira, F. (2019). I see what you meant to say: Anticipating speech errors during online sentence processing. *Journal of Experimental Psychology: General*, 148(10), 1849–1858. <https://doi.org/10.1037/xge0000544>. (Supplemental).
- Lu, Z.-L., & Doshier, B. (2014). *Visual psychophysics: From laboratory to theory*. The MIT Press.
- Lubashevsky, I. (2019). Psychophysical laws as reflection of mental space properties. *Physics of Life Reviews*, 31, 276–303. <https://doi.org/10.1016/j.plrev.2018.10.003>
- Lucas, G. A. (2019). Adaptive systems influence both learning and conscious attention. *Behavioural Processes*, 168, 103871. <https://doi.org/10.1016/j.beproc.2019.05.018>

- Lugo, E., Doti, R., & Faubert, J. (2008). Ubiquitous crossmodal stochastic resonance in humans: Auditory noise facilitates tactile, visual and proprioceptive sensations. *PLoS One*, 3(8), e2860. <https://doi.org/10.1371/journal.pone.0002860>
- Luo, S., Mou, W., Althoefer, K., & Liu, H. (2019). iCLAP: Shape recognition by combining proprioception and touch sensing. *Autonomous Robots*, 43, 993.
- Luo, X., Soslowsky, S., & Pulling, K. R. (2019). Interaction between pitch and timbre perception in normal-hearing listeners and cochlear implant users. *Journal of the Association for Research in Otolaryngology*, 20(1), 57–72. <https://doi.org/10.1007/s10162-018-00701-3>
- Luvmour, J., & Luvmour, B. (1999). Confluence: Synthesizing the insights of Joseph Chilton Pearce and natural learning rhythms. *Paths of Learning: Options for Families & Communities*, 1(1), 8–13.
- Maciuszek, J., Polak, M., & Świątkowska, N. (2019). Grammatical gender influences semantic categorization and implicit cognition in Polish. *Frontiers in Psychology*, 10, 2208. <https://doi.org/10.3389/fpsyg.2019.02208>
- Maddison, S. (2019, January). The time course of visual adaptation. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.780024>
- Maia, S., Lefèvre, F., & Jozefowicz, J. (2018). Psychophysics of associative learning: Quantitative properties of subjective contingency. *Journal of Experimental Psychology: Animal Learning and Cognition*, 1, 67.
- Maliar, M. (2019). How machine (deep) learning helps us understand human learning: The value of big ideas. <http://arxiv.org/abs/1903.03408>
- Malnic, B., Hirono, J., Sato, T., & Buck, L. B. (1999). Combinatorial receptor codes for odors. *Cell*, 96(5), 713.
- Mandala Lukoff, M. (2018). Immersion in indigenous agriculture and transformational learning. *Anthropology and Humanism*, 43(1), 90–106. <https://doi.org/10.1111/anhu.12189>
- Manescu, S., Frasnelli, J., Lepore, F., & Djordjevic, J. (2014). Now you like me, now you don't: Impact of labels on odor perception. *Chemical Senses*, 39(2), 167–175. <https://doi.org/10.1093/chemse/bjt066>
- Marcum, J. (2006a). The dynamic learning imperative. *Counterpoints*, 231, 123–147. <http://www.jstor.org/stable/42978853>
- Marcum, J. (2006b). The dynamic learning process. *Counterpoints*, 231, 171–178. <http://www.jstor.org/stable/42978855>
- Marcum, J. (2006c). The learning phenomenon. *Counterpoints*, 231, 71–87. <http://www.jstor.org/stable/42978850>
- Marcy, R. T., Gentry, W. A., & McKinnon, R. (2008). Thinking straight: New strategies are needed for ethical leadership. *Leadership in Action*, 28(3), 3. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&doc=ETOCRN235539614&indx=1&recIds=ETOCRN235539614
- Marden, M. P., & Herrington, J. (2020). Design principles for integrating authentic activities in an online community of foreign language learners. *Issues in Educational Research*, 30(2), 635–654.
- Mardiansyah, E. A., Saptono, S., & Setiawati, N. (2019). The enhancement of senior high school students' analytical thinking skills in learning excretory system material with quantum learning model. *Journal of Biology Education*, 8(1), 79–88. <https://doi.org/10.15294/jbe.v8i1.29590>

- Mariani, A., Giorgetti, A., & Chiani, M. (2019). On oversampling-based signal detection. *International Journal of Wireless Information Networks*, 26, 272–284. <https://doi.org/10.1007/s10776-019-00444-9>
- Marks, L. (1992). The contingency of perceptual processing: Context modifies equal-loudness relations. *Psychological Science*, 3, 285–291. <http://www.jstor.org/stable/40062857>
- Marks, L. E. (1994). “Recalibrating” the auditory system: The perception of loudness. *Journal of Experimental Psychology: Human Perception and Performance*, 20(2), 382.
- Marr, D. (2010). *Vision: A computational investigation into the human representation and processing of visual information*. The MIT Press.
- Marr, D., & Nishihara, H. K. (1978). Representation and recognition of the spatial organization of three-dimensional shapes. *Proceedings of the Royal Society of London. Series B. Biological Sciences*, 200(1140), 269.
- Martens, S., Kandula, M., & Duncan, J. (2010). Restricted attentional capacity within but not between sensory modalities: An individual differences approach. *PLoS One*, 5(12), 1.
- Martin, G. N. (2013). *The neuropsychology of smell and taste*. Psychology Press.
- Martin, R., McGill, T., & Sudweeks, F. (2013). Learning anywhere, anytime: Student motivators for m-learning. *Journal of Information Technology Education*, 12, 51–67. <https://doi.org/10.28945/1771>
- Martínez-García, C., Martínez García, T. E., Merchán Clavellino, A., Salguero Alcañiz, M. D. P., Parra Martínez, C., & Alameda Bailén, J. R. (2018). Cognitive implications in the psychophysical estimation of taste. *Nutricion Hospitalaria*, 35, 1424–1431. <https://doi.org/10.20960/nh.1903>
- Marulis, L. M., Baker, S. T., & Whitebread, D. (2020). Integrating metacognition and executive function to enhance young children’s perception of and agency in their learning. *Early Childhood Research Quarterly*, 50(Part 2), 46–54. <https://doi.org/10.1016/j.ecresq.2018.12.017>
- Massimiani, V., Weiland, B., Chatelet, E., Cornuault, P.-H., Faucheu, J., & Massi, F. (2020). The role of mechanical stimuli on hedonistic and topographical discrimination of textures. *Tribology International*, 143, 106082. <https://doi.org/10.1016/j.triboint.2019.106082>
- Masson, G. S., Yang, D. S., & Miles, F. A. (2002). Version and vergence eye movements in humans: Open-loop dynamics determined by monocular rather than binocular image speed. *Vision Research*, 42(26), 2853. http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=detailsTab&gathStatTab=true&ct=display&fn=search&doc=ETOCRN122663279&indx=1&recIds=ETOCRN122663279
- Mather, G. (2009). *Foundations of sensation and perception* (2nd ed). Psychology Press.
- Mather, G. (2016). *Foundations of sensation and perception* (3rd ed.). Routledge.
- Mathews, J. (2019, December 27). Colleges should be laboratories of respectful, diverse thinking. What happened? *The Washington Post*. https://www.washingtonpost.com/local/education/colleges-should-be-laboratories-of-respectful-diverse-thinking-what-happened/2019/12/26/70d33f9e-2815-11ea-ad73-2fd294520e97_story.html

- Matsuoka, T., & Ito, K. N. (2003). Perception of missing fundamental and consideration on its characteristics. In Proceedings of the annual international conference - IEEE Engineering in Medicine and Biology Society, p. 2059.
- Mayer, R. E. (2017). How can brain research inform academic learning and instruction? *Educational Psychology Review*, 29, 835–846. <https://doi.org/10.1007/s10648-016-9391-1>
- McAuliffe, M., & Babel, M. (2016). Stimulus-directed attention attenuates lexically-guided perceptual learning. *Journal of the Acoustical Society of America*, 140, 1727.
- McCartney, J. L. (1962). Hypnosis and the process of learning. *Medical Times*, 90, 1129–1131.
- McCulloch, T., & Smith, M. (2017). Creating spaces for change: Engaging civil society to harness change in criminal justice practice. *European Journal of Probation*, 9(3), 231–247.
- McDermott, J., Lehr, A., & Oxenham, A. (2008). Is relative pitch specific to pitch? *Psychological Science*, 19, 1263–1271. <http://www.jstor.org/stable/40064878>
- McDonnell, M. D. (2008). *Stochastic resonance: From suprathreshold stochastic resonance to stochastic signal quantization*. Cambridge University Press.
- Melzack, R., Israel, R., Lacroix, R., & Schultz, G. (1997). Phantom limbs in people with congenital limb deficiency or amputation in early childhood. *Brain: A Journal of Neurology*, 120(Pt 9), 1603–1620.
- Memariani, A., & Loo, C. K. (2013). Biologically inspired dictionary learning for visual pattern recognition. *Informatica*, 37(4), 419.
- Mena, J. A., & Quina, K. (2019). *Integrating multiculturalism and intersectionality into the psychology curriculum: Strategies for instructors*. American Psychological Association.
- Mender, D. (2017). Two pathways toward an integrative quantum psychophysics. *Journal of Integrative Neuroscience*, 16, S65.
- Méndez-Balbuena, I., Huidobro, N., Silva, M., Flores, A., Trenado, C., Quintanar, L., Arias-Carrión, O., Kristeva, R., & Manjarrez, E. (2015). Effect of mechanical tactile noise on amplitude of visual evoked potentials: Multisensory stochastic resonance. *Journal of Neurophysiology*, 114, 2132–2143. <https://doi.org/10.1152/jn.00457.2015>
- Merchel, S., Altinsoy, M. E., & Schwendicke, A. (2015). Tactile intensity perception compared to auditory loudness perception. In 2015 IEEE world haptics conference (WHC), p. 356.
- Mercier, M. R., & Cappe, C. (2020). The interplay between multisensory integration and perceptual decision making. *NeuroImage*, 222, 116970. <https://doi.org/10.1016/j.neuroimage.2020.116970>
- Mestre, L. (2010). Matching up learning styles with learning objects: What's effective? *Journal of Library Administration*, 50(7/8), 808–829. <https://doi.org/10.1080/01930826.2010.488975>
- Meyers, R. (1971). A note on sense-data and depth perception. *Mind*, 80(319), 437–440. New series. <http://www.jstor.org/stable/2252559>
- Micheyl, C., Divis, K., Wroblewski, D. M., & Oxenham, A. J. (2010). Does fundamental-frequency discrimination measure virtual pitch discrimination? *Journal of the Acoustical Society of America*, 128, 1930.
- Miller, G. A. (1956). The magical number seven, plus or minus two: Some limits on our capacity for processing information. *Psychological Review*, 63(2), 81–97.

- Milligan, J. R. (1979). Schema learning theory: An approach to perceptual learning. *Review of Educational Research*, 49(2), 197.
- Misaki, M., & Inui, T. (2005). The influence of category knowledge on visual recognition and its functional role. *Electronics & Communications in Japan, Part 3: Fundamental Electronic Science*, 88(11), 43–55. <https://doi.org/10.1002/ecjc.20200>
- Mitsea, E., & Drigas, A. (2019). A journey into the metacognitive learning strategies. *International Journal of Online & Biomedical Engineering*, 15(14), 4.
- Mohl, J. C. (2018). Utilizing the hypnotic concomitants of education: Suggestions to enhance teaching and learning. *American Journal of Clinical Hypnosis*, 61(2), 185–197. <https://doi.org/10.1080/00029157.2018.1489774>
- Mojet, J., Heidema, J., & Christ-Hazelhof, E. (2003). Taste perception with age: Generic or specific losses in supra-threshold intensities of five taste qualities? *Chemical Senses*, 28, 397–413.
- Møller, A. R. (2003). *Sensory systems: Anatomy, physiology and pathophysiology*. Academic Press.
- Møller, A. R. (2014). *Sensory systems: Anatomy, physiology and pathophysiology*. Aage R. Møller Publishing.
- Moncrieff, R. W. (1956). Olfactory adaptation and odour likeness. *The Journal of Physiology*, 133, 301–316.
- Moore, B. C. J. (n.d.). Characterization of simultaneous, forward and backward masking. In Proceedings of the AES international conference, p. 22.
- Moore, B. C. J., Glasberg, B. R., & Peters, R. W. (1985a). Relative dominance of individual partials in determining the pitch of complex tones. *Journal of the Acoustical Society of America*, 77, 1853.
- Moore, B. C., Peters, R. W., & Glasberg, B. R. (1985b). Thresholds for the detection of inharmonicity in complex tones. *Journal of the Acoustical Society of America*, 77, 1861–1867.
- Moradi, N., Pourheidari, F., & Hamdi, R. (2015). Relation of locus of control and creativity with learning styles. *International Letters of Social and Humanistic Sciences*, 45, 79–88. <https://doi.org/10.18052/www.scipress.com/ILSHS.45.79>
- Moseley, G., & Brugger, P. (2009). Interdependence of movement and anatomy persists when amputees learn a physiologically impossible movement of their phantom limb. *Proceedings of the National Academy of Sciences of the United States of America*, 106(44), 18798–18802. <http://www.jstor.org/stable/25593092>
- Moskowitz, H. R., Muñoz, A. M., & Gacula, M. C. (2004). The interface between psychophysics and sensory science: Methods versus real knowledge. *Viewpoints & controversies in sensory science & consumer product testing* (p. 103). Wiley.
- Mostafa, A. A., t Hart, B. M., & Henriques, D. Y. P. (2019). Motor learning without moving: Proprioceptive and predictive hand localization after passive visuoproprioceptive discrepancy training. *PLoS One*, 14(8), e0221861. <https://doi.org/10.1371/journal.pone.0221861>
- Moye, J. N. (1991). The psychoacoustics of musical sound: An annotated bibliography. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=ddu&AN=5D1C0DF105F5A88B&site=eds-live&scope=site&auth type=sso&custid=ns083389>
- Moye, J. N. (2019a). *A machine learning, artificial intelligence approach institutional effectiveness in higher education*. The Emerald Group.

- Moye, J. N. (2019b). *Learning differentiated curriculum design in higher education*. The Emerald Group.
- Muehleck, J. K., Smith, C. L., & Allen, J. M. (2014). Understanding the advising learning process using learning taxonomies. *NACADA Journal*, 34(2), 63–74. <https://doi.org/10.12930/NACADA-13-013>
- Muhali, M., Yuanita, L., & Ibrahim, M. (2019). The validity and effectiveness of the reflective-metacognitive learning model in improving students' metacognitive ability in indonesia. *Malaysian Journal of Learning and Instruction*, 16(2), 33–73.
- Müller, H., Schröger, E., & Kaernbach, C. (2011). *Psychophysics beyond sensation: Laws and invariants of human cognition*. Taylor & Francis [CAM].
- Muniasamy, A., & Alasiry, A. (2020). Deep learning: The impact on future eLearning. *International Journal of Emerging Technologies in Learning*, 15(1), 188–199. <https://doi.org/10.3991/ijet.v15i01.11435>
- Murray, S. O., Schallmo, M.-P., Kolodny, T., Millin, R., Kale, A., Thomas, P., Rammsayer, T. H., Troche, S. J., Bernier, R. A., & Tadin, D. (2018). Sex differences in visual motion processing. *Current Biology*, 28, 2794–2799. <https://doi.org/10.1016/j.cub.2018.06.014>
- Na, J., Grossmann, I., Varnum, M., Kitayama, S., Gonzalez, R., & Nisbett, R. (2010). Cultural differences are not always reducible to individual differences. *Proceedings of the National Academy of Sciences of the United States of America*, 107, 6192–6197. <http://www.jstor.org/stable/25665145>
- Nancekivell, S. E., Shah, P., & Gelman, S. A. (2020). Maybe they're born with it, or maybe it's experience: Toward a deeper understanding of the learning style myth. *Journal of Educational Psychology*, 112(2), 221–235.
- Naujokaitiene, J., & Passey, D. (2019). Influences on developing collaborative learning practices in schools: Three cases in three different countries. *European Education*, 51, 212–230. <https://doi.org/10.1080/10564934.2019.1619463>
- Neuhoff, J. G., McBeath, M. K., & Wanzie, W. C. (1999). Dynamic frequency change influences loudness perception: A central, analytic process. *Journal of Experimental Psychology: Human Perception and Performance*, 25(4), 1050.
- Neves, I. P., & Morais, A. M. (2001). Teacher's "space of change" in educational reforms: A model for analysis applied to a recent reform in Portugal. *Journal of Curriculum Studies*, 33, 451–476. <https://doi.org/10.1080/00220270010011211>
- Neville, H., Stevens, C., Pakulak, E., Bell, T., Fanning, J., Klein, S., & Isbell, E. (2013). Family-based training program improves brain function, cognition, and behavior in lower socioeconomic status preschoolers. *Proceedings of the National Academy of Sciences of the United States of America*, 110, 12138–12143. <http://www.jstor.org/stable/42712539>
- Nidiffer, A. R., Diederich, A., Ramachandran, R., & Wallace, M. T. (2018). Multisensory perception reflects individual differences in processing temporal correlations. *Scientific Reports*, 8, 14483. <https://doi.org/10.1038/s41598-018-32673-y>
- Nielsen, D., Ieromonachou, P., Lin, Y., & White, A. (2015). Revision of curricula in higher education service provision: For better learning engagement and collaborative learning. *Procedia Manufacturing*, 3, 3583–3590. <https://doi.org/10.1016/j.promfg.2015.07.723>

- Nishihara, N., & Hidaka, T. (2012). Loudness perception of low tones undergoing partial masking by higher tones in orchestral music in concert halls. *Journal of the Acoustical Society of America*, 132, 799.
- Noguchi, S., Saito, J., Nakai, K., Kitayama, M., & Hirota, K. (2019). Factors affecting phantom limb pain in patients undergoing amputation: Retrospective study. *Journal of Anesthesia*, 33, 216–220. <https://doi.org/10.1007/s00540-018-2599-0>
- Noguchi, Y., Shimojo, S., Kakigi, R., & Hoshiyama, M. (2011). An integration of color and motion information in visual scene analyses. *Psychological Science*, 22(2), 153. <https://doi.org/10.1177/0956797610393743>
- Nordin, A., & Sundberg, D. (2018). Exploring curriculum change using discursive institutionalism - A conceptual framework. *Journal of Curriculum Studies*, 50, 820–835. <https://doi.org/10.1080/00220272.2018.1482961>
- Novartis Foundation. (2006). In D. J. Chadwick, M. Diamond, & J. Goode (Eds.), *Percept, decision, action: Bridging the gaps*. Wiley.
- Ntseane, P. G. (2011). Culturally sensitive transformational learning: Incorporating the Afrocentric paradigm and African feminism. *Adult Education Quarterly*, 61, 307–323. <https://doi.org/10.1177/0741713610389781>
- Nuemket, N., Yasui, N., Kusakabe, Y., Nomura, Y., Atsumi, N., Akiyama, S., Nango, E., Kato, Y., Kaneko, M. K., Takagi, J., Hosotani, M., & Yamashita, A. (2017). Structural basis for perception of diverse chemical substances by T1r taste receptors. *Nature Communications*, 8, 15530. <https://doi.org/10.1038/ncomms15530>
- Oberprieler, K., & Leonard, S. N. (2015). A model for using activity theory in education design: A gamification example. *Australian Association for Research in Education*. <https://eric.ed.gov/contentdelivery/servlet/ERICServlet?accno=ED593834>
- O’Callaghan, C. (2016). Objects for multisensory perception. *Philosophical Studies: An International Journal for Philosophy in the Analytic Tradition*, 173, 1269.
- Okamoto, M., & Dan, I. (2013). Extrinsic information influences taste and flavor perception: A review from psychological and neuroimaging perspectives. *Seminars in Cell & Developmental Biology*, 24, 247–255. <https://doi.org/10.1016/j.semcdb.2012.11.001>
- Okamoto, S., Nagano, H., & Yamada, Y. (2013). Psychophysical dimensions of tactile perception of textures. *IEEE Transactions on Haptics*, 1, 81.
- Orgill, B. D., & Nolin, J. (2020, January). *Learning taxonomies in medical simulation*. <http://search.ebscohost.com/login.aspx?direct=true&AuthType=sso&db=mdc&AN=32644535&site=eds-live&scope=site>
- Orkwis, R. (1999). Curriculum access and universal design for learning [electronic resource]. *ERIC clearinghouse on disabilities and gifted education*. <http://purl.access.gpo.gov/GPO/LPS7327>. <http://catalog.gpo.gov/fdlpdir/locate.jsp?ItemNumber=0466-A-03&SYS=000527953>
- Osgood-Campbell, E. (2015). Investigating the educational implications of embodied cognition: A model interdisciplinary inquiry in mind, brain, and education curricula. *Mind, Brain, and Education*, 9(1), 3–9.
- Otto, D. (2017). Students’ interaction for enhancing learning motivation and learning success: Findings from integrating a simulation game into a university course. <http://www.ssoar.info/ssoar/handle/document/50782>

- Palmer, S. E. (1992). Reference frames in the perception of spatial structure. In H.-G. Geissler, S. Link, & J. T. Townsend (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Pammer, K., & Bink, C. (2018). Visual processing in expert drivers: What makes expert drivers expert? *Transportation Research Part F: Psychology and Behaviour*, 55, 353–364. <https://doi.org/10.1016/j.trf.2018.03.009>
- Papanek, M. L. (1973). Kurt Lewin and his contributions to modern management theory. *Academy of management proceedings* (pp. 317–322). Academy of Management. <https://doi.org/10.5465/AMBPP.1973.4981410>
- Paradis, A.-L., Droulez, J., Cornilleau-Pères, V., & Poline, J.-B. (2008). Processing 3D form and 3D motion: Respective contributions of attention-based and stimulus-driven activity. *NeuroImage*, 43, 736–747. <https://doi.org/10.1016/j.neuroimage.2008.08.027>
- Parducci, A. (1992). Elaborations upon psychophysical contexts for judgment: Implications of cognitive models. In H.-G. Geissler, S. Link, & J. T. Townsend (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Patil, K., Pressnitzer, D., Shamma, S., & Elhilali, M. (2012). Music in our ears: The biological bases of musical timbre perception. *PLoS Computational Biology*, 8(11), 1–16. <https://doi.org/10.1371/journal.pcbi.1002759>
- Pauli, P., Bourne, L., Diekmann, H., & Birbaumer, N. (1999). Cross-modality priming between odors and odor-congruent words. *American Journal of Psychology*, 112, 175–186. <https://doi.org/10.2307/1423349>
- Pavani, F., Spence, C., & Driver, J. (2000). Visual capture of touch: Out-of-the-body experiences with rubber gloves. *Psychological Science*, 11, 353–359. <http://www.jstor.org/stable/40063541>
- Pearce, J. C. (1977). *Magical child: Rediscovering nature's plan for our children*. Dutton.
- Pearce, J. C. (1993). *Evolution's end: Claiming the potential of our intelligence*. Harper.
- Pelletier, C. A., & Steele, C. M. (2014). Influence of the perceived taste intensity of chemesthetic stimuli on swallowing parameters given age and genetic taste differences in healthy adult women. *Journal of Speech, Language, and Hearing Research*, 57(1), 46–56. [https://doi.org/10.1044/1092-4388\(2013\)13-0005](https://doi.org/10.1044/1092-4388(2013)13-0005)
- Peltonen, H. (2016). Constructivism, cognition, and duality. *European Review of International Studies*, 3(3), 76–86. <http://www.jstor.org/stable/26583588>
- Pennock, M., Svrakic, M., Bent, J. P., III, & Bent, J. P., 3rd (2019). Completion of an individualized learning plan for otology-related milestone subcompetencies leads to improved otology section otolaryngology training exam scores. *Otology & Neurotology*, 40, 1392–1398. <https://doi.org/10.1097/MAO.0000000000002392>
- Perepelkina, O., Romanov, D., Arina, G., Volel, B., & Nikolaeva, V. (2019). Multisensory mechanisms of body perception in somatoform disorders. *Journal of Psychosomatic Research*, 127, 109837. <https://doi.org/10.1016/j.jpsychores.2019.109837>
- Pérez-González, A. B. (2019). Deconstructed language in higher education deconstructing science. *Universal Journal of Educational Research*, 7, 781–789.
- Perl, O., Nahum, N., Belevsky, K., & Haddad, R. (2020). The contribution of temporal coding to odor coding and odor perception in humans. *ELife*, 9, e49734. <https://doi.org/10.7554/eLife.49734>

- Perruchoud, D., Fiorio, M., Cesari, P., & Ionta, S. (2018). Beyond variability: Subjective timing and the neurophysiology of motor cognition. *Brain Stimulation*, 11(1), 175–180. <https://doi.org/10.1016/j.brs.2017.09.014>
- Perry, W. J. (1999). *Forms of intellectual and ethical development in the college years: A scheme*. Jossey-Bass Higher and Adult Education Series.
- Perus, M., & Loo, C. K. (2011). *Biological and quantum computing for human vision: Holonomic models and applications*. IGI Global.
- Peters, J., Weisskopf, M. G., Spiro, A., Schwartz, I. J., Sparrow, D., Nie, H., Hu, H., Wright, R. O., & Wright, R. J. (2010). Interaction of stress, lead burden, and age on cognition in older men: The VA normative aging study. *Environmental Health Perspectives*, 118(4), 505. <http://www.jstor.org/stable/25653840>
- Petzold, P. (2013). Context effects in judgments of attributes: An information-integration approach. In H.-G. Geissler, S. Link, & J. T. Townsend (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Pfaffmann, C. (1959). The sense of taste. In J. Field (Ed.), *Handbook of physiology, neurophysiology* (Vol. 1). American Physiological Society.
- Phélip, M., Donnot, J., & Vauclair, J. (2016). Auditory orienting of attention: Effects of cues and verbal workload with children and adults. *Child Neuropsychology*, 22(6), 692.
- Picard, D., Dacremont, C., Valentin, D., & Giboreau, A. (2003). Perceptual dimensions of tactile textures. *Acta Psychologica*, 114(2), 165–184. <https://doi.org/10.1016/j.actpsy.2003.08.001>
- Pierce, J. D., Jr, Wysocki, C. J., Aronov, E. V., Webb, J. B., & Boden, R. M. (1996). The role of perceptual and structural similarity in cross-adaptation. *Chemical Senses*, 21(2), 223–237.
- Pinter, R. B., & Nabet, B. (2018). *Nonlinear vision: Determination of neural receptive fields, function, and networks*. CRC Press.
- Piqueras-Fiszman, B., & Spence, C. (2016). *Multisensory flavor perception: From fundamental neuroscience through to the marketplace*. Woodhead Publishing.
- Plack, C. J., & Carlyon, R. P. (1995). Chapter 4: Loudness perception and intensity coding. *Hearing*, 123–160. <https://doi.org/10.1016/B978-012505626-7/50006-6>
- Pleger, B., Dinse, H., Ragert, P., Schwenkreis, P., Malin, J., & Tegenthoff, M. (2001). Shifts in cortical representations predict human discrimination improvement. *Proceedings of the National Academy of Sciences of the United States of America*, 98, 12255–12260. <http://www.jstor.org/stable/3056882>
- Popham, S., Boebinger, D., Ellis, D. P. W., Kawahara, H., & McDermott, J. H. (2018). Inharmonic speech reveals the role of harmonicity in the cocktail party problem. *Nature Communications*, 9(1), 2122. <https://doi.org/10.1038/s41467-018-04551-8>
- Pratiwi, W. N. W., Rochintaniawati, D., & Agustin, R. R. (2018). The effect of multiple intelligence-based learning towards students' concept mastery and interest in matter. *Journal of Science Learning*, 1(2), 49–52. <https://doi.org/10.17509/jsl.v1i2.8739>
- Pribram, K. H., & Carlton, E. H. (1986). Holonomic brain theory in imaging and object perception. *Acta Psychologica*, 63(1–3), 175–210.

- Proske, U., & Allen, T. (2019). The neural basis of the senses of effort, force and heaviness. *Experimental Brain Research*, 237, 589–599. <https://doi.org/10.1007/s00221-018-5460-7>
- Purba, S. W. D., Hwang, W.-Y., Pao, S.-C., & Ma, Z.-H. (2019). Investigation of inquiry behaviors and learning achievement in authentic contexts with the ubiquitous-physics app. *Journal of Educational Technology & Society*, 22(4), 59–76.
- Raju, P. C. (2019). A theory on formatting sensory input for cognition. <http://arxiv.org/abs/1909.04586>
- Ram, M. P., Ajay, K. K., & Nair, A. G. (2020). Geoscience curriculum: Approach through learning taxonomy and outcome based education. *Higher Education for the Future*, 7(1), 22–44.
- Ramlan, A. M. (2017). Peningkatan hasil belajar mahasiswa melalui metode quantum learning dengan Teknik [Improved student learning outcomes through quantum learning methods with techniques of Mind mapping]. *Journal of EST (Educational Science and Technology)*, 3(2), 129–135. <https://doi.org/10.26858/est.v3i2.3551>
- Rapp, A., & Tirabeni, L. (2020). Self-tracking while doing sport: Comfort, motivation, attention and lifestyle of athletes using personal informatics tools. *International Journal of Human-Computer Studies*, 140, 102434. <https://doi.org/10.1016/j.ijhcs.2020.102434>
- Rawson Nancy, E. (2003). Age-related changes in perception of flavor and aroma. *Generations: Journal of the American Society on Aging*, 27(1), 20.
- Reilly, K. T., & Sirigu, A. (2011). Motor cortex representation of the upper-limb in individuals born without a hand. *PloS One*, 6(4), e18100. <https://doi.org/10.1371/journal.pone.0018100>
- Remez, R. E., Thomas, E. F., Wycoff, A. M., Giglio, R. E., Crank, A. T., Cheimets, C. B., & Koinis, S. M. (2016). Constraints on sensitivity to auditory modulation in the perceptual organization of speech. *Experimental Aging Research*, 42(1), 4–13. <https://doi.org/10.1080/0361073X.2016.1108741>
- Renninger, K. A., Bachrach, J. E., & Hidi, S. E. (2019). Triggering and maintaining interest in early phases of interest development. *Learning, Culture and Social Interaction*, 23, 100260. <https://doi.org/10.1016/j.lcsi.2018.11.007>
- Renninger, K. A., & Hidi, S. (2016). *The power of interest for motivation and engagement*. Routledge.
- Reynolds, S. (2005). Chapter 12: Patterns that connect. In W. E. Doll, Jr., M. J. Fleener, D. Trueit, & J. St Julien (Eds.), *Chaos, complexity, curriculum, & culture: A conversation* (pp. 263–276). Peter Lang.
- Rhodes, R. E., Rodriguez, F., & Shah, P. (2014). Explaining the alluring influence of neuroscience information on scientific reasoning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 40, 1432–1440. <https://doi.org/10.1037/a0036844>
- Ribchester, C., & Healey, R. L. (2019). Realism, reflection and responsibility: The challenge of writing effective scenarios to support the development of ethical thinking skills. *Journal of Further and Higher Education*, 43(1), 101.
- Ribot-Ciscar, E., Aimonetti, J.-M., & Azulay, J.-P. (2017). Sensory training with vibration-induced kinesthetic illusions improves proprioceptive integration in patients with Parkinson's disease. *Journal of the Neurological Sciences*, 383, 161–165. <https://doi.org/10.1016/j.jns.2017.11.016>

- Richardson, G. D. (2019). Faith and learning in higher education: Merging the bible with discipline-specific content. *Journal of Research on Christian Education*, 1, 51.
- Richardson, M., Llewellyn, P., Andrews, G., & Godwin, N. (2019). Exploring opportunity freedom with mental health service users: Applying a widening participation, capabilities and situationist informed framework for transformational learning. *Widening Participation & Lifelong Learning*, 21(1), 71–93. <https://doi.org/10.5456/WPLL.21.1.71>
- Richardson, R., Hayne, H., & Campbell, B. A. (1992). *Attention and information processing in infants and adults: Perspectives from human and animal research*. Psychology Press.
- De Ridder, D., Congedo, M., & Vanneste, S. (2015). The neural correlates of subjectively perceived and passively matched loudness perception in auditory phantom perception. *Brain and Behavior*, 5(5), e00331.
- Riggs, L. A. (1965). Visual acuity. Chapter 11. In C. H. Graham (Ed.), *Vision and visual perception*. Wiley.
- Rishiq, D. A., Harkrider, A. W., & Hedrick, M. S. (2012). Acceptable noise level and psychophysical masking. *American Journal of Audiology*, 21(2), 199.
- Riva, S. M. (2020). Translating Ignatian principles into artful pedagogies of hope. *Jesuit Higher Education: A Journal*, 9(1), 106–121.
- Robertson, D. (2015). Implicit cognition and the social evaluation of speech. <http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.684120>
- Robinson, D. K. (2010). Fechner's inner psychophysics. *History of Psychology*, 13(4), 424. <https://doi.org/10.1037/a0021641>
- Roederer, J. G. (2008). *The physics and psychophysics of music: An introduction* (4th ed.). Springer.
- Rogowska, A. M. (2015). *Synaesthesia and individual differences*. Cambridge University Press.
- Rosen, L. D. (2017). The distracted student mind—Enhancing its focus and attention. *Phi Delta Kappan*, 99(2), 8–14. <https://doi.org/10.1177/0031721717734183>
- Rosén, R. (2013). Peripheral vision: Adaptive optics and psychophysics. <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-120077>
- Rosenbush, A. (2016). IVth great visual light minimum of R CrB. I. UBVRT photometry. *Astrophysics*, 59(2), 183–198. <https://doi.org/10.1007/s10511-016-9426-9>
- Ross, L. D., Amabile, T. M., & Steinmetz, J. L. (1977). Social roles, social control, and biases in social-perception processes. *Journal of Personality and Social Psychology*, 35, 485–494.
- Rouby, C., Schaal, B., Dubois, D., Gervais, R., & Holley, A. (2002). *Olfaction, taste, and cognition*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511546389>.
- Rouse, E. D. (2020). Where you end and I begin: Understanding intimate co-creation. *Academy of Management Review*, 45(1), 181–204. <https://doi.org/10.5465/amr.2016.0388>
- Roy, E. A., & Hollins, M. (1998). A ratio code for vibrotactile pitch. *Somatosensory & Motor Research*, 15(2), 134.
- Royal, K. D., & Neel, J. G. (2015). Uniform and individualized learning outcomes: The potential for a new assessment paradigm. *Education in Medicine Journal*, 7(4), e73–e74. <https://doi.org/10.5959/eimj.v7i4.392>

- Rufener, K. S., Kauk, J., Ruhnau, P., Repplinger, S., Heil, P., & Zaehle, T. (2020). Inconsistent effects of stochastic resonance on human auditory processing. *Scientific Reports*, 10(1), 1–10. <https://doi.org/10.1038/s41598-020-63332-w>
- Ruge, G., & McCormack, C. (2017). Building and construction students' skills development for employability – Reframing assessment for learning in discipline-specific contexts. *Architectural Engineering and Design Management*, 13(5), 365.
- Saadah, E. S., & Melzack, R. (1994). Phantom limb experiences in congenital limb-deficient adults. *Cortex: A Journal Devoted to the Study of the Nervous System and Behavior*, 30, 479–485.
- Sáenz-Navajas, M.-P., Ferrero-del-Teso, S., Jeffery, D. W., Ferreira, V., & Fernández-Zurbano, P. (2020). Effect of aroma perception on taste and mouthfeel dimensions of red wines: Correlation of sensory and chemical measurements. *Food Research International*, 131, 108945. <https://doi.org/10.1016/j.foodres.2019.108945>
- Sagi, E., D'Alessandro, L. M., & Norwich, K. H. (2007). Identification variability as a measure of loudness: An application to gender differences. *Canadian Journal of Experimental Psychology*, 1, 64.
- Salles, C., Engel, E., Nicklaus, S., Taylor, A. J., & Le Quere, J. L. (2005). Formation, release, and perception of taste and aroma compounds from cheeses as a function of matrix properties. *ACS Symposium Series*, 905, 192.
- Samaha, J., & Postle, B. R. (2015). The speed of alpha-band oscillations predicts the temporal resolution of visual perception. *Current Biology*, 22, 2985.
- Sandham, A. (2015). Are game mechanics mappable to learning taxonomies? *Proceedings of the European Conference on Games Based Learning*, 1, 753–761.
- Sandoval, W., Greene, J., & Bråten, I. (2016). Understanding and promoting thinking about knowledge: Origins, issues, and future directions of research on epistemic cognition. *Review of Research in Education*, 40, 457–496. <http://www.jstor.org/stable/44668629>
- Sangrá, A., Raffaghelli, J. E., & Guitert-Catasús, M. (2019). Learning ecologies through a lens: Ontological, methodological and applicative issues. A systematic review of the literature. *British Journal of Educational Technology*, 50, 1619–1638.
- Sarris, V. (2013). Frame of reference models in psychophysics: A perceptual-cognitive approach. In C. Kaernbach, E. Schröger, & H. Müller (Eds.), *Psychophysics beyond sensation: Laws and invariants of human cognition*. Taylor & Francis.
- Sathian, K., & Ramachandran, V. S. (2019). *Multisensory perception: From laboratory to clinic*. Academic Press.
- Sattar, T., Ullah, M. I., Ahmad, S., & Warraich, I. A. (2019). An integrated web model study of behavioral, emotional and cognitive engagement factors affecting the academic performance of high school students through their multidimensional engagement in learning milieu: A study of South Punjab, Pakistan. *Pakistan Journal of Social Sciences*, 39(4), 1711.
- Sattler, K. D. (2020). *21st century nanoscience – A handbook: Design strategies for synthesis and fabrication (volume two)*. CRC Press.
- Savage, W. (2021). *The measurement of sensation: A critique of perceptual psychophysics*. University of California Press.
- Schalow, G., & e-libro Corporation. (2013). *Human neurophysiology: Development and repair of the human central nervous system*. Nova Science.

- Schauberger, G., Piringer, M., Schmitzer, R., Kamp, M., Sowa, A., Koch, R., Eckhof, W., Grimm, E., Kypke, J., & Hartung, E. (2012). Concept to assess the human perception of odour by estimating short-time peak concentrations from one-hour mean values. Reply to a comment by Müller et al. <http://arxiv.org/abs/1201.0914>
- Scheerer, E. (2013). Fechner's inner psychophysics: Its historical fate and present status. In H.-G. Geissler, S. Link, & J. T. Townsend (Eds.), *Cognition, information processing, and psychophysics*. Lawrence Erlbaum Associates.
- Schein, E. H. (1996). Kurt Lewin's change theory in the field and in the classroom: Notes toward a model of managed learning. *Systems Practice*, 9, 27–47. <https://doi.org/10.1007/BF02173417>
- Schiefele, U. (1991). Interest, learning, and motivation. *Educational Psychologist*, 26, 299–323. https://doi.org/10.1207/s15326985sep2603&4_5
- Schneider, A. (2000). Inharmonic Sounds: Implications as to «Pitch», «Timbre», and «Consonance». *Journal of New Music Research*, 29, 275. <https://doi.org/10.1080/09298210008565463>
- Schrage, M. (1995). *No more teams! Mastering the dynamics of creative collaboration*. Bantam Doubleday Dell.
- Schyns, P. G., Bonnar, L., & Gosselin, F. (2002). Show me the features! Understanding recognition from the use of visual information. *Psychological Science*, 13(5), 402. <https://www.jstor.org/stable/40063871>
- Scott, T. R. & Giza, B. K. (2000) Issues of neural coding in taste: Where they stand. *Physiology and Behavior*, 69, 65–76.
- Sehlstedt, I., Ignell, H., Backlund Wasling, H., Ackerley, R., Olausson, H., & Croy, I. (2016). Gentle touch perception across the lifespan. *Psychology and Aging*, 31, 176–184. <https://doi.org/10.1037/pag0000074>
- Seitz, A. R., Nanez, J. E., Holloway, S. R., Koyama, S., Watanabe, T., & Shiffrin, R. M. (2005). Seeing what is not there shows the costs of perceptual learning. *Proceedings of the National Academy of Sciences of the United States of America*, 102, 9080.
- Sejnowski, T. J. (2018). *The deep learning revolution*. The MIT Press.
- Semrau, J. A., Herter, T. M., Scott, S. H., & Dukelow, S. P. (2018). Vision of the upper limb fails to compensate for kinesthetic impairments in subacute stroke. *Cortex: A Journal Devoted to the Study of the Nervous System and Behavior*, 109, 245–259. <https://doi.org/10.1016/j.cortex.2018.09.022>
- She, H.-C. (2004). Facilitating students' learning of difficult science concepts through integrating a metacognitive approach into a web-based multimedia science learning program. In Proceedings of the international conference on computers and advanced technology in education, p. 428.
- Shen, J., & Palmeri, T. J. (2016). Modelling individual difference in visual categorization. *Visual Cognition*, 24, 260.
- Shepard, M. E., Sastre, E. A., Davidson, M. A., & Fleming, A. E. (2012). Use of individualized learning plans among fourth-year sub-interns in pediatrics and internal medicine. *Medical Teacher*, 34(1), e46–e51. <https://doi.org/10.3109/0142159X.2012.638013>
- Shiffrin, R., & Nosofsky, R. (1994). Seven plus or minus two: A commentary on capacity limitations. *Psychological Review*, 101(2), 357–361.
- Shim, H. J., Go, G., Lee, H., Choi, S. W., & Won, J. H. (2019). Influence of visual deprivation on auditory spectral resolution, temporal resolution, and speech

- perception. *Frontiers in Neuroscience*, 13, 1200. <https://doi.org/10.3389/fnins.2019.01200>.
- Sicard, G., & Holley, A. (1984). Receptor cell responses to odorants: Similarities and differences among odorants. *Brain Research*, 292, 283–296.
- Siddique, A., Durrani, Q. S., & Naqvi, H. A. (2019). Developing adaptive e-learning environment using cognitive and noncognitive parameters. *Journal of Educational Computing Research*, 57(4), 811–845.
- Sidhu, D. M., Pexman, P. M., & Saint-Aubin, J. (2019). Is un stylo sharper than une épée? Investigating the interaction of sound symbolism and grammatical gender in English and French speakers. *PloS One*, 14(12), 1–19. <https://doi.org/10.1371/journal.pone.0225623>
- Simmel, M. (1958). The conditions of occurrence of phantom limbs. *Proceedings of the American Philosophical Society*, 102, 492–500. <http://www.jstor.org/stable/985596>.
- Simmel, M. (1961). The absence of phantoms for congenitally missing limbs. *American Journal of Psychology*, 74(3), 467–470. <https://doi.org/10.2307/1419756>
- Simon, S. A., & Roper, S. D. (2014). *Mechanisms of taste transduction*. CRC Press.
- Simon, D., Stenstrom, D. M., & Read, S. J. (2015). The coherence effect: Blending cold and hot cognitions. *Journal of Personality and Social Psychology*, 109, 369–394. <https://doi.org/10.1037/pspa0000029>
- Simpson, J. (2016). The genetics of affective cognition: Electrophysiological evidence for individual differences in affective picture processing, attention and memory. <http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.707276>
- Sinding, C., Coureaud, G., Bervialle, B., Martin, C., Schaal, B., & Thomas-Danguin, T. (2015). Experience shapes our odor perception but depends on the initial perceptual processing of the stimulus. *Attention, Perception, & Psychophysics*, 77, 1794–1806. <https://doi.org/10.3758/s13414-015-0883-8>
- Skedung, L. (2012). Tactile perception: Role of friction and texture. <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-103916>
- Smale-Jacobse, A. E., Meijer, A., Helms-Lorenz, M., & Maulana, R. (2019). Differentiated instruction in secondary education: A systematic review of research evidence. *Frontiers in Psychology*, 10, 1.
- Smilkstein, R. (2011). *We're born to learn: Using the brain's natural learning process to create today's curriculum*. Corwin Press. <https://doi.org/10.4135/9781452275062>
- Smith, G. & Atchison, D. (1997). *The eye and visual optical instruments*. Cambridge University Press.
- Solivan, E. (2010). *Quantum psychophysics. Aries International (U.B.T.O)*. Kindle.
- Soto, F. A., Vucovich, L. E., & Ashby, F. G. (2018). Linking signal detection theory and encoding models to reveal independent neural representations from neuroimaging data. *PLoS Computational Biology*, 14(10), e1006470. <https://doi.org/10.1371/journal.pcbi.1006470>
- Sousa, T., Sayal, A., Duarte, J. V., Costa, G. N., Martins, R., & Castelo-Branco, M. (2018). Evidence for distinct levels of neural adaptation to both coherent and incoherently moving visual surfaces in visual area hMT+. *NeuroImage*, 179, 540–547. <https://doi.org/10.1016/j.neuroimage.2018.06.075>
- Spaggiari, G., Di Pizio, A., & Cozzini, P. (2020). Sweet, umami and bitter taste receptors: State of the art of in silico molecular modeling approaches. *Trends in Food Science & Technology*, 96, 21–29. <https://doi.org/10.1016/j.tifs.2019.12.002>

- Spence, C. (2019a). Attending to the chemical senses. *Multisensory Research*, 32, 635–664. <https://doi.org/10.1163/22134808-20191468>
- Spence, C. (2019b). On the relationship(s) between color and taste/odor. *Experimental Psychology*, 66(2), 99–111. <https://doi.org/10.1027/1618-3169/a000439>
- Srinivasan, N. (2019). *Emotion and cognition* (1st ed.). Academic Press.
- Sternberg, R. J. (1998). *Handbook of creativity*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511807916>
- Sternberg, R., & Ben-Zeev, T. (2001). *Complex cognition: The psychology of human thought*. Academic Press.
- Stevens, S. S. (1967). Intensity functions in sensory systems. *International Journal of Neurology*, 6, 202–209.
- Stevens, S. S. (2017). *Psychophysics: Introduction to its perceptual, neural, and social prospects*. Routledge.
- Stevenson, R. J. (2014). Object concepts in the chemical senses. *Cognitive Science*, 38, 1360–1383. <https://doi.org/10.1111/cogs.12111>
- Stoll, G. (1985). Pitch shift of pure and complex tones induced by masking noise. *Journal of the Acoustical Society of America*, 77(1), 188.
- Stuve, C. (2015). A study of student perceptions on adaptive learning systems in college algebra and their effect on learning outcomes [ProQuest LLC]. In ProQuest LLC. http://rave.ohiolink.edu/etdc/view?acc_num=toledo1430233337
- Sun, W., & Barbour, D. L. (2017). Rate, not selectivity, determines neuronal population coding accuracy in auditory cortex. *PLoS Biology*, 15(11), e2002459. <https://doi.org/10.1371/journal.pbio.2002459>
- Sweller, J. (2010). Cognitive load theory: Recent theoretical advances. In J. Plass, R. Moreno, & R. Brünken (Eds.), *Cognitive load theory* (pp. 29–47). Cambridge University Press. <https://doi.org/10.1017/CBO9780511844744.004>
- van Swieten, M. M. H., & Bogacz, R. (2020). Modeling the effects of motivation on choice and learning in the basal ganglia. *PLoS Computational Biology*, 16(5), 1–33. <https://doi.org/10.1371/journal.pcbi.1007465>
- Takahashi, T. (2014). Toward a physical theory of quantum cognition. *Topics in Cognitive Science*, 6(1), 104–107. <https://doi.org/10.1111/tops.12079>
- Takatsugu, A., Keiichi, K., Daichi, N., & Yoshiharu, Y. (2008). Internal noise determines external stochastic resonance in visual perception. *Vision Research*, 48, 1569. <https://doi.org/10.1016/j.visres.2008.04.022>
- Taljaard, J. (2016). A review of multi-sensory technologies in a Science, Technology, Engineering, Arts and Mathematics (STEAM) classroom. *Journal of Learning Design*, 9(2), 46–55. <https://doi.org/10.5204/jld.v9i2.274>
- Tamariz, M. (2019). Replication and emergence in cultural transmission. *Physics of Life Reviews*, 30, 47–71. <https://doi.org/10.1016/j.plrev.2019.04.004>
- Tamietto, M., & de Gelder, B. (2010). Neural bases of the non-conscious perception of emotional signals. *Nature Reviews Neuroscience*, 11(10), 697.
- Tarr, M. J., & Bülthoff, H. H. (1995). Is human object recognition better described by geon structural descriptions or by multiple views? Comment on Biederman and Gerhardstein (1993). *Journal of Experimental Psychology: Human Perception and Performance*, 21(6), 1494–1505. <https://doi.org/10.1037/0096-1523.21.6.1494>
- Tatler, B. W., Gilchrist, I. D., & Rusted, J. (2003). The time course of abstract visual representation. *Perception*, 32, 579–592.

- Tecău, A. S., & Chițu, I. B. (2018). Influence of packaging on taste perception. *Bulletin of the Transilvania University of Brasov. Series V: Economic Sciences*, 11(1), 63–70.
- Teghtsoonian, R. (2018). The concepts of perceived magnitude and dynamic range: What they reveal about the nature of sensory systems. In T. Lachman & T. Weis (Eds.), *Invariances in human information processing (scientific psychology series)*. Taylor & Francis.
- Tempere, S., Hamtat, M. L., Bougeant, J. C., Revel, G., & Sicard, G. (2014). Learning odors: The impact of visual and olfactory mental imagery training on odor perception. *Journal of Sensory Studies*, 29, 435–449. <https://doi.org/10.1111/joss.12124>
- Teodorescu, A. (2012). Intercultural communication patterns and language use in computer mediated communication. *Studii Si Cercetari Filologice: Seria Limbi Straine Aplicate*, 11, 247–253.
- Teppo, M., Semilarski, H., Soobard, R., & Rannikmäe, M. (2017). Klassi õpilaste huvi eri kontekstis esitatud loodusteaduslike teemade õppimise vastu ja motivatsioon õppida loodusteadusi [Class students' interest in studying natural science issues in different contexts and motivation to learn about science]. *Estonian Journal of Education/Eesti Haridusteaduste Ajakiri*, 5(1), 130–170. <https://doi.org/10.12697/eha.2017.5.1.05>
- Thoresen, V. (2017). How transformational learning promotes caring, consultation and creativity, and ultimately contributes to sustainable development: Lessons from the Partnership for Education and Research about Responsible Living (PERL) network. *International Review of Education/Internationale Zeitschrift Für Erziehungswissenschaft*, 63, 915–934. <https://doi.org/10.1007/s11159-017-9688-4>
- Todd, C. (2018). Tasting in time: The affective and temporal dimensions of flavour perception. *The Monist*, 101(3), 277. <https://doi.org/10.1093/monist/ony006>
- Toledo, S., & Dubas, J. M. (2016). Encouraging higher-order thinking in general chemistry by scaffolding student learning using Marzano's taxonomy. *Journal of Chemical Education*, 93(1), 64–69.
- Torosyan, R. (1999). Applying learning to life: A theoretical framework in context. *ETC: A Review of General Semantics*, 56(1), 2–24. <http://www.jstor.org/stable/42579856>
- Tosey, P. (2006). Bateson's levels of learning: A framework for transformative learning? <http://epubs.surrey.ac.uk/1198/1/fulltext.pdf><http://epubs.surrey.ac.uk/1198>.
- Townsend, J. (1990). Serial vs. parallel processing: Sometimes they look like tweedledum and tweedledee but they can (and should) be distinguished. *Psychological Science*, 1(1), 46–54. <http://www.jstor.org/stable/40062391>. Accessed on September 18, 2020.
- Townsend, J. T., Link, S. W., & Geissler, H.-G. (Eds.). (1992). *Cognition, information processing, and psychophysics: Basic issues*. Psychology Press.
- Tran, K.-N., Lau, J. H., Contractor, D., Gupta, U., Sengupta, B., Butler, C. J., & Mohania, M. (2018). Document chunking and learning objective generation for instruction design. <http://arxiv.org/abs/1806.01351>
- Treisman, M. (1991). Psychophysics in action, G. Ljunggren and S. Dornic (eds.), Springer-Verlag, Berlin, 1989. *Acta Psychologica*, 76(1), 94–95. [https://doi.org/10.1016/0001-6918\(91\)90057-7](https://doi.org/10.1016/0001-6918(91)90057-7)
- Tremblay, M.-L., Leppink, J., Leclerc, G., Rethans, J.-J., & Dolmans, D. H. J. M. (2019). Simulation-based education for novices: Complex learning tasks promote

- reflective practice. *Medical Education*, 53, 380–389. <https://doi.org/10.1111/medu.13748>
- Treviño, M., De la Torre-Valdovinos, B., & Manjarrez, E. (2016). Noise improves visual motion discrimination via a stochastic resonance-like phenomenon. *Frontiers in Human Neuroscience*, 10, 1.
- Tsai, S.-C., Chen, C.-H., Shiao, Y.-T., Ciou, J.-S., & Wu, T.-N. (2020). Precision education with statistical learning and deep learning: A case study in Taiwan. *International Journal of Educational Technology in Higher Education*, 17(1), 1–13. <https://doi.org/10.1186/s41239-020-00186-2>
- Tsushima, Y., & Watanabe, T. (2009). Roles of attention in perceptual learning from perspectives of psychophysics and animal learning. *Learning & Behavior*, 37(2), 126.
- Tu, Z., Zhao, D., Qiu, F., & Yu, T. (2020). Stochastic resonance in coupled underdamped harmonic oscillators with fluctuating frequency driven by dichotomous noise. *Journal of Statistical Physics*, 179(1), 247–262. <https://doi.org/10.1007/s10955-020-02532-0>
- Tucker-Drob, E., Briley, D., & Harden, K. (2013). Genetic and environmental influences on cognition across development and context. *Current Directions in Psychological Science*, 22, 349–355. <http://www.jstor.org/stable/44318687>
- Tulviste, P. (2019). Linguistic and activity relativity in cognition. *Journal of Russian and East European Psychology*, 56, 215–230. <https://doi.org/10.1080/10610405.2019.1620067>
- Turner, S., Chan, M.-K., McKimm, J., Dickson, G., & Shaw, T. (2018). Discipline-specific competency-based curricula for leadership learning in medical specialty training. *Leadership in Health Services*, 31(2), 152.
- Tużnik, P., Augustynowicz, P., & Francuz, P. (2018). Electrophysiological correlates of timbre imagery and perception. *International Journal of Psychophysiology*, 129, 9–17. <https://doi.org/10.1016/j.ijpsycho.2018.05.004>
- Ueda, Y., Chen, L., Kopecky, J., Cramer, E. S., Rensink, R. A., Meyer, D. E., Kitayama, S., & Saiki, J. (2018). Cultural differences in visual search for geometric figures. *Cognitive Science*, 42(1), 286–310. <https://doi.org/10.1111/cogs.12490>
- Uttal, W. R. (2014). *The psychobiology of sensory coding*. Psychology Press.
- Uzan, P. (2016). Complementarity in psychophysics. In Quantum interaction: 9th international conference, QI 2015, Filzbach, Switzerland, July 15–17, 2015, revised selected papers, p. 168.
- Vaina, L. M., Belliveau, J. W., Des Roziers, E. B., & Zeffiro, T. A. (1998). Neural systems underlying learning and representation of global motion. *Proceedings of the National Academy of Sciences of the United States of America*, 95(21), 12657.
- Valori, I., McKenna-Plumley, P. E., Bayramova, R., Zandonella Callegher, C., Altoè, G., & Farroni, T. (2020). Proprioceptive accuracy in Immersive Virtual Reality: A developmental perspective. *PLoS One*, 15(1), e0222253. <https://doi.org/10.1371/journal.pone.0222253>
- Vansteenkiste, M., Aelterman, N., De Muynck, G.-J., Haerens, L., Patall, E., & Reeve, J. (2018). Fostering personal meaning and self-relevance: A self-determination theory perspective on internalization. *Journal of Experimental Education*, 86(1), 30–49. <https://doi.org/10.1080/00220973.2017.1381067>
- Varnum, M., Grossmann, I., Kitayama, S., & Nisbett, R. (2010). The origin of cultural differences in cognition: The social orientation hypothesis. *Current*

- Directions in Psychological Science*, 19(1), 9–13. <http://www.jstor.org/stable/41038530>
- Vaughan-Graham, J., Patterson, K., Zabjek, K., & Cott, C. A. (2019). Important movement concepts: Clinical versus neuroscience perspectives. *Motor Control*, 23, 273.
- van Velzen, J. (2016). *Metacognitive learning: Advancing learning by developing general knowledge of the learning process*. Springer.
- Vergeer, M., & Engel, S. A. (2020). Control of visual adaptation depends upon task. *PLoS One*, 15(2), e0229343. <https://doi.org/10.1371/journal.pone.0229343>
- Wahl, M., & Majchrzak, D. (2019). The impact of a sensory education on gustatory and olfactory perception in Austrian school children aged 11–14 – A consideration of short-term effects. *Food Quality and Preference*, 78, 103727. <https://doi.org/10.1016/j.foodqual.2019.103727>
- Walkington, C. A. (2013). Using adaptive learning technologies to personalize instruction to student interests: The impact of relevant contexts on performance and learning outcomes. *Journal of Educational Psychology*, 105, 932–945. <https://doi.org/10.1037/a0031882>
- Wallace, M. T., Woynarowski, T. G., & Stevenson, R. A. (2020). Multisensory integration as a window into orderly and disrupted cognition and communication. *Annual Review of Psychology*, 71, 193–219. <https://doi.org/10.1146/annurev-psych-010419-051112>
- Walsh, V. (2017). Sensory systems. *Reference module in neuroscience and biobehavioral psychology*. Elsevier. <https://doi.org/10.1016/B978-0-12-809324-5.06867-X>
- Wang, G. T., Liang, X. W., Xue, Y. Y., Li, C., & Ding, Q. (2019). Algorithm used to detect weak signals covered by noise in PIND. *International Journal of Aerospace Engineering*, 2019, 1–11. <https://doi.org/10.1155/2019/1637953>
- Wang, Q. (2017). Assessing the mechanisms behind sound-taste correspondences and their impact on multisensory flavour perception and evaluation. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.736057>
- Wang, Q. B., Yang, Y., & Zhang, X. (2020, May). Detection of weak signal based on parameter identification of delay differential system with noise disturbance. *Mathematical Problems in Engineering*, 2020, 1–9. <https://doi.org/10.1155/2020/2047952>
- Ward, L. M., Neiman, A., & Moss, F. (2002). Stochastic resonance in psychophysics and in animal behavior. *Biological Cybernetics*, 87(2), 91. <https://doi.org/10.1007/s00422-002-0328-z>
- Warren, P. A., & Rushton, S. K. (2009). Perception of scene-relative object movement: Optic flow parsing and the contribution of monocular depth cues. *Vision Research*, 11, 1406.
- Waskom, M. L., Okazawa, G., & Kiani, R. (2019). Designing and interpreting psychophysical investigations of cognition. *Neuron*, 104(1), 100–112. <https://doi.org/10.1016/j.neuron.2019.09.016>
- Weber, A. I., Saal, H. P., Lieber, J. D., Cheng, J.-W., Manfredi, L. R., Dammann, J. F., III, & Bensmaia, S. J. (2013). Spatial and temporal codes mediate the tactile perception of natural textures. *Proceedings of the National Academy of Sciences of the United States of America*, 110, 17107.

- Weber, D., Friesen, R., & Miller, L. (2012). Interfacing the somatosensory system to restore touch and proprioception: Essential considerations. *Journal of Motor Behavior*, 44, 403–418. <https://doi.org/10.1080/00222895.2012.735283>
- van Weerden, J. F., Verbrugge, R., & Hemelrijk, C. K. (2020). Modelling non-attentional visual information transmission in groups under predation. *Ecological Modelling*, 431, 109073. <https://doi.org/10.1016/j.ecolmodel.2020.109073>
- Weisberg, D. S., Keil, F. C., Goodstein, J., Rawson, E., & Gray, J. R. (2007). The seductive allure of neuroscience explanations. *Journal of Cognitive Neuroscience*, 20, 470–477. <https://doi.org/10.1162/jocn.2008.20040>
- Westwood, D. A., & Goodale, M. A. (2011). Converging evidence for diverging pathways: Neuropsychology and psychophysics tell the same story. *Vision Research*, 51, 804–811. <https://doi.org/10.1016/j.visres.2010.10.014>
- Wetzel, N., & Schroeder, E. (2019). Auditory attention in children and adults: A psychophysiological approach. In T. Lachmann & T. Weis (Eds.), *Invariances in human information processing*. Routledge.
- White, B. J., Kan, J. Y., Levy, R., Itti, L., & Munoz, D. P. (2017). Superior colliculus encodes visual saliency before the primary visual cortex. *Proceedings of the National Academy of Sciences of the United States of America*, 114, 9451.
- White, T. L., Thomas-Danguin, T., Olofsson, J. K., Zucco, G. M., & Prescott, J. (2020). Thought for food: Cognitive influences on chemosensory perceptions and preferences. *Food Quality and Preference*, 79, 103776. <https://doi.org/10.1016/j.foodqual.2019.103776>
- Whitehead, P. M., & Smith, T. G. (2018). Overcoming the impassable gulf: Phenomenologizing psychophysics. *Journal of Phenomenological Psychology*, 49(1), 64.
- Wilkinson, A. (2014). Decoding learning in law: Collaborative action towards the reshaping of university teaching and learning. *Educational Media International*, 51(2), 124–134. <https://doi.org/10.1080/09523987.2014.924665>
- Windey, B., Vermeiren, A., Atas, A., & Cleeremans, A. (2014). The graded and dichotomous nature of visual awareness. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 369(1641), 1–11. <http://www.jstor.org/stable/24500063>
- Winter, D. (2003). Intellectual growth management. *Human Ecology Review*, 10(2), 183–184. <http://www.jstor.org/stable/24706981>
- Wismath, S. L., & Orr, D. (2015). Collaborative learning in problem solving: A case study in metacognitive learning. *Canadian Journal for the Scholarship of Teaching and Learning*, 6(3), 1–19. <https://doi.org/10.5206/cjsotl-rcacea.2015.3.10>
- Wolf, O. (2018). Affinity with artefacts: Humans' perception of movement in technological objects. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.766211>
- Wollman, L. (1965). Influence of hypnosis on the learning process. *Journal of the American Society of Psychosomatic Dentistry and Medicine*, 12, 75–78.
- Wu, C., Yang, J., Sanjuán, M. A. F., & Liu, H. (2020). Stochastic resonance induced by an unknown linear frequency modulated signal in a strong noise background. *Chaos*, 30(4), 1–7. <https://doi.org/10.1063/5.0002134>
- Wu, P.-F., & Wu, P. (2011). Integrating metacognitive and mind mapping strategies into the instruction of computer course for fifth graders' learning of graphic composition. <http://ndltd.ncl.edu.tw/handle/34432625959894765003>

- Xiao, Y. Z., Wang, X., Pan, L., & Chang, Y. C. (2020). A study of the effects of modes of course instruction on students' learning motivation and outcomes. *International Journal of Organizational Innovation*, 13(1), 305–316.
- Xiaolong, J., Shan, S., Cathryn, R. C., Philipp, B., Fabian, S., Alexander, S. E., Saumil, P., & Andreas, S. T. (2015). Neuroscience: Principles of connectivity among morphologically defined cell types in adult neocortex. *Science*, 350, 1055. <https://doi.org/10.1126/science.aac9462>
- Xiaopeng, S., Wenjing, Z., & Bo, H. (2017). Cooperative cortical network for categorical processing of Chinese lexical tone. *Proceedings of the National Academy of Sciences of the United States of America*, 114, 12303.
- Xu, P., & Jin, Y. (2020). Stochastic resonance in an asymmetric tristable system driven by correlated noises. *Applied Mathematical Modelling*, 77, 408–425. <https://doi.org/10.1016/j.apm.2019.07.053>
- Yamakou, M. E., Hjorth, P. G., & Martens, E. A. (2020). Optimal self-induced stochastic resonance in multiplex neural networks: Electrical versus chemical synapses. *Frontiers in Computational Neuroscience*, 14, 62. <https://doi.org/10.3389/fncom.2020.00062>
- Yang, D., Lavonen, J. M., & Niemi, H. (2018). Online learning engagement: Critical factors and research evidence from literature. *Themes in Science and Technology Education*, 11(1), 1.
- Yang, Y., Bai, G., Chiribella, G., & Hayashi, M. (2017). Compression for quantum population coding. *IEEE Transactions on Information Theory*, 64(7), 4766–4783. <https://doi.org/10.1109/TIT.2017.2788407>
- Yard, J., Devetak, I., & Hayden, P. (2005). Capacity theorems for quantum multiple access channels: Classical-quantum and quantum-quantum capacity regions. <http://arxiv.org/abs/quant-ph/0501045><https://doi.org/10.1109/TIT.2008.924665>
- Yata, C., Ohtani, T., & Isobe, M. (2020). Conceptual framework of STEM based on Japanese subject principles. *International Journal of STEM Education*, 7(1), 1–10. <https://doi.org/10.1186/s40594-020-00205-8>
- Ye, Y. (2019). Classical and quantum integrability in dimensions two and three. <https://doi.org/10.26174/thesis.lboro.12452510.v1>
- Yoshioka, T., Bensmaïa, S. J., Craig, J. C., & Hsiao, S. S. (2007). Texture perception through direct and indirect touch: An analysis of perceptual space for tactile textures in two modes of exploration. *Somatosensory & Motor Research*, 24(1/2), 53.
- Young, P. (2010). Generic or discipline-specific? An exploration of the significance of discipline-specific issues in researching and developing teaching and learning in higher education. *Innovations in Education and Teaching International*, 47(1), 115.
- Ysseldyke, J., Tardrew, S., & Betts, J. (2004). Use of an instructional management system to enhance math instruction of gifted and talented students. *Journal for the Education of the Gifted*, 27, 293–310.
- Yuce, A., Abubakar, A. M., & Ilkan, M. (2019). Intelligent tutoring systems and learning performance: Applying task-technology fit and IS success model. *Online Information Review*, 43, 600–616. <https://doi.org/10.1108/OIR-11-2017-0340>
- Zackoff, M. W., Real, F. J., Klein, M. D., Abramson, E. L., Li, S.-T. T., & Gusic, M. E. (2019). Enhancing educational scholarship through conceptual frameworks: A challenge and roadmap for medical educators. *Academic Pediatrics*, 19(2), 135–141. <https://doi.org/10.1016/j.acap.2018.08.003>

- Zhang, C., Hofmann, D., Neef, A., & Wolf, F. (2018). Ultrafast population coding and axo-somatic compartmentalization. <http://arxiv.org/abs/1807.00509>
- Zhang, H. (2019). Lexical cognition ecology neuroscience from the perspective of cognitive linguistics. *Ekoloji Dergisi*, 108, 529.
- Zhang, Z., Liu, H., & Choi, S. (2020). Early-life socioeconomic status, adolescent cognitive ability, and cognition in late midlife: Evidence from the Wisconsin Longitudinal Study. *Social Science & Medicine*, 244, 112575. <https://doi.org/10.1016/j.socscimed.2019.112575>
- Zhao, J., Yang, J., Zhang, J., Wu, C., & Huang, D. (2018). Improving the stochastic resonance in a bistable system with the bounded noise excitation. *Journal of Statistical Physics*, 173, 1688–1697. <https://doi.org/10.1007/s10955-018-2145-3>
- Zirk-Sadowski, J. M. (2014). Bayesian settings of multivariate perspectives on numerical psychophysics and learning: Within logic, risky decision-making and neuro-affective factors. <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.708042>
- Zucco, G., Herz, R., & Schaal, B. (2012). *Olfactory cognition: From perception and memory to environmental odours and neuroscience*. John Benjamins Publishing.
- Zwicker, E. (1981). Formulae for calculating the psychoacoustical excitation level of aural difference tones measured by the cancellation method. *Journal of the Acoustical Society of America*, 69, 1410–1413.
- Zwislocki, J. J. (2009). *Sensory neuroscience: Four laws of psychophysics*. Springer-Verlag. https://doi.org/10.1007/978-0-387-84849-5_1