

BIBLIOGRAPHY

- Allfred, S., Duffy, S., Smith, J. (2013). *Cognitive Load and Strategic Sophistication*. Munchen: University of München.
- Amin, M.E. (2005). *Social Science Research: Conception, methodology and Analysis*. Kampala: Makerere University.
- Arikunto, S. (2009). *Dasar-dasar Evaluasi Pendidikan*. Jakarta: Bumi Aksara.
- Artino, A.R. Jr. (2008). Cognitive Load Theory and The Role of Learner Experience: An Abbreviated Review for Educational Practitioners. *AACE Journal*. **16** (4), 425-439.
- BSNP. (2006). *Kurikulum Tingkat Satuan Pendidikan (KTSP)*. Jakarta: Departemen Pendidikan Nasional.
- Campbell, N.A. *et al.* (2008). *Biologi Edisi Kedelapan Jilid 3*. Jakarta: Erlangga.
- Chandler, P. & Sweller, J. (1991). "Cognitive Load Theory and the Format Instruction". Faculty of Education Paper University of Wollongong.
- Cinaz, B. (2013). *Monitoring of Cognitive Load and Cognitive Performance using Wearable Sensing*. Dissertation for the degree of Doctor of Sciences in University of Bremen: unpublished.
- Cone, T. P., Werner P. H., Cone S. L. (2009). *Models for Interdisciplinary Teaching in Physical Education*. Available [Online]: <http://www.humankinetics.com/products/all-products/interdisciplinary-teaching-through-physical-education-2nd-edition> [15 Oktober 2013].
- Dahar, R. W. (2006). *Teori-teori Belajar dan Pembelajaran*. Jakarta: Erlangga

- DeLeeuw, K.E. & Mayer, R.E. (2008). A Comparison of Three Measures of Cognitive Load: Evidence for Separable Measures of Intrinsic, Extraneous and Germane Load. *Journal of Educational Psychology*. **100** (1), 223-234.
- Elliot, S.N., Kurz, A., Beddow, P., Frey, J. (2009). „Cognitive Load Theory: Instruction-Based Research with Applications for Designing Test“. Paper presented at the National Association of School Psychologists, Boston.
- Fogarty, R. (1991). *How to Integrate the Curricula*. Palatine Illinois: IRI/Skylight Publishing, Inc. Available [Online]: http://www.ascd.org/ASCD/pdf/journals/ed_lead/el_199110_fogarty.pdf [16 Oktober 2013].
- Hindriana, A. F., Rahmat, A., Redjeki, S., Riandi. (2012a). Menurunkan beban kognitif mahasiswa pada perkuliahan fungsi tumbuhan melalui pembelajaran terintegrasi tipe *nested* dengan kerangka intruksional dari Marzano. Paper on SEMIRATA BKS-PTN MIPA 2012, Medan.
- Hindriana, A. F., Rahmat, A., Redjeki, S., Riandi. (2012b). “Meningkatkan Keterampilan Berpikir Mahasiswa dengan Menurunkan Beban Kognitif Melalui Integrasi Struktur pada Fungsi Tumbuhan Menggunakan Model *Nested*”. Paper on Seminar Nasional Pendidikan Sains PPs Universitas Negeri Surabaya, Surabaya.
- Hsiao, Y. P., Brouns, F., Ketser, L., Sloep, P. (2010). „Cognitive Load and Knowledge Sharing in Learning Networks“. Centre of Learning Sciences and Technologies: Open University of the Netherlands.
- Indris, T. (2013). *Penerapan Asesmen Portofolio untuk Meningkatkan Habits of Mind dan Penguasaan Konsep Siswa Kelas XI*. Thesis for Master Program in UPI: unpublished.
- Kalyuga, S., Ayres, P., Chandler, P., & Sweller, J. (2003). The Expertise Reversal Effect. *Educational Psychologist*. **38**, 23-31.

- Kirschner, P.A. (2002). "Cognitive Load Theory: Implications of Cognitive Load Theory on the Design of Learning". *Journal of Learning and Instruction*. **12**, 1-10.
- Kirschner, F., Paas, F., Kirschner, P. A. (2009). A Cognitive-Load Approach to Collaborate Learning: United Brains for Complex Task. *Educational Psychology Review*. **21**, 31-42.
- Kirschner, P.A., Ayres, P., Chandler, P. (2010). „Contemporary Cognitive Load Theory Research: The Good, The Bad and The Ugly“. Centre for Learning Sciences and Technologies, Open University of the Netherlands School of Education, Valkenburgerweg.
- Kusnadi, K.A. (2011). *Dasar-Dasar Anatomi dan Fisiologi Tubuh Manusia Jilid 1*. Bandung: Jurusan Pendidikan Biologi, FPMIPA UPI.
- Kurnadi, K.A. (2011). *Dasar-Dasar Anatomi dan Fisiologi Tubuh Manusia Jilid 2*. Bandung: Jurusan Pendidikan Biologi, FPMIPA UPI.
- Lee, H., Plass, J.L., Homer, B.D. (2006). "Optimizing Cognitive Load for Learning from Computer-Based Science Simulations". *Journal of Educational Psychology*. **98** (4), 902-913.
- Lee, Y. J. J. (2013). Analyzing Student's Cognitive Load to Prioritize English Public Speaking Training. *Journal of Data Analysis and Information Processing*. **1**, 35-45.
- Malaescu, I. & Sutton, S.G. (2013). *The Effect of Decision Aid Structural Restrictiveness on Cognitive Load, Perceived Usefulness and Reuse Intentions*. Orlando: University of Central Florida.
- Marzano, R. J. (2013). *Seni dan Ilmu Pengajaran*. Jakarta: PT Indeks.

- Marzano, R. J. (1992). *A Different Kind of Classroom*. Alexandria: the Association for Supervision and Curriculum Development.
- Marzano, R. J., Pickering, D., McTighe, J. (1993). *Assessing Student Outcomes: Performance Assessment Using the Dimensions of Learning Model*. Alexandria: the Association for Supervision and Curriculum Development.
- Marzano, R. J., Pickering, D. J. (2006). *Dimensions of Learning*. Alexandria: Hawker Brownlow Education.
- Mayer, R. E., Moreno, R. (2003). "Nine Ways to Reduce Cognitive Load in Multimedia Learning". *Journal of Educational Psychologist*. **38**, (1), 43-52.
- Meissner, B., Bogner, F.X. (2013). Towards Cognitive Load Theory as Guideline for Instructional Design in Science Education. *World of Journal Education*. **3** (2).
- Meltzer, D.E. (2002). *The Relationship Between Mathematics Preparation and Conceptual Learning Gain in Physics: a Possible Hidden Variable in Diagnostic Pre test Score*. Am. J.Phys. 70(2). 1259-1267. [Online] Tersedia: http://www.physics.lateste.edu/per/does/addedum-_on_normalizegain.pdf (23 April 2014)
- Moreno, R. & Mayer, R.E. Cognitive Principles of Multimedia Learning: The Role of Modality and Contiguity. (1999). *Journal of Educational Psychology*. **91** (2), 358/368
- Moseley, D., Baumfield, V., Elliot, J., Gregson, M., Higgins, S., Miller, J., Newton, D. (2005). *Frameworks for Thinking*. Cambridge: Cambridge University Press.
- Mousavi, S.Y., Low, R., Sweller, J. (1995). Reducing Cognitive Load by Mixing Auditory and Visual Presentations Modes. *Journal of Educational Psychology*. **87** (2), 319-334.

- Munir, S., Rachman, M., Dwijanto. (2012). Penerapan Model Kurikulum Terpadu Mata Pelajaran KKPI Kompetensi Dasar Mengoperasikan Software Pengolah Kata Untuk Meningkatkan Keterampilan Menulis Surat Lamaran Pekerjaan. *Innovative Journal of Curriculum and Educational Technology*. **1**, (2), 110-111.
- Nieswiadomy, M., Cobb, S.L. (1993). "Impact of Pricing Structure Selectivity on Urban Water Demand". *Contemporary Economic Policy*. **11**, (3), 101-113.
- Nursit, I. (2012). "Beban Kognitif Siswa SMP Kelas VII dalam Pembelajaran Matematika Bilingual". Paper on Seminar Nasional MIPA dan Pembelajaran 2012, Malang.
- Paas, F., Tuovinen, J.E., Tabbers, H., Gerven, P. W. M. V. (2003). "Cognitive Load Measurement as a Means to Advance Cognitive Load Theory". *Educational Psychologist*. **28**, (1), 63-71.
- Paas, F., Renkl, A., Sweller, J. (2003). "Cognitive Load Theory and Instructional Design: Recent Developments". *Educational Psychologist*. **38**, (1), 1-4.
- Paas, F., & Van Merriënboer, J.J.G. (1994). Variability of Worked Examples and Transfer of Geometrical Problem Solving Skills: A Cognitive-Load Approach. *Journal of Educational Psychology*. **1** 122-133.
- Paas, F., & Van Gog, T. (2006). Optimising Worked Example Instruction: Different ways to Increase Germane Cognitive Load. *Journal of Learning Instruction*. **16**, 87-91.
- Plass, J.L., Homer, B.D., Hayward, E.O. (2009). "Design Factors for Educationally Effective Animations and Simulations". *Journal Computer High Education*.
- Rofiuddin, A. A., Winarti, Kuswidi, I. (2012). "Pengembangan Modul Astronomi Berbasis Integrasi Interkoneksi dengan Tema Pengukuran Arah Kiblat Menggunakan Azimuth Matahari". Paper on Seminar Nasional MIPA dan Pembelajaran 2012, Malang.

- Rumanta, M. (2007). *Fisiologi Hewan*. Bandung: Universitas Terbuka.
- Rustaman, N. Dirdjosoemarto, S. Yudianto, S.A. Achmad, Y. Subekti, R. Rochintaniawati, D. Kusumastuti, M.N. (2003). *Strategi Belajar Mengajar*. Bandung: IMSTEP.
- Schnotz, W. & Kürschner, C. (2007). A Reconsideration of Cognitive Load Theory. *Educational Psychology Review*. **19**, 469-508.
- Soewolo, et al. (2005). *Fisiologi Manusia*. Malang: Universitas Negeri Malang.
- Sudjana, N. (1989). *Penilaian Hasil Proses Belajar Mengajar*. Bandung: PT Remaja Rosdakarya.
- Sweller, J. (1994). Cognitive Load Theory, Learning Difficulty, and Instructional Design. *Journal of Learning and Instruction*. **4**, 295-312.
- Sweller, J. (1988). Cognitive Load during Problem Solving: Effects on Learning. *Journal of Cognitive Science*. **12**, 257-285.
- Sweller, J. (2010). Element Interactivity and Intrinsic, Extraneous and Germane Cognitive Load. *Educational Psychology Review*. **22**, 123-138.
- Tabbers, H., Martens, R., Van Merriënboer, J. (2000). "Multimedia Instructional and Cognitive Load Theory: Split-Attention and Modality Effects". Paper presented at the AECT: California.
- Valcke, M. (2001). Cognitive Load: Updating The Theory?. *Journal of Learning and Instruction*. (2).
- Van Gerven, P.W.M., Paas, F.G.W.C., Van Merriënboer, J.J.G., Schmidt, H.G. (2002). "Cognitive Load Theory and Aging: Effects of worked Examples on Training Efficiency". *Journal of Learning and Instruction*. **12**, 87-105.

- Vandewaetere, M., Clarebout, G. (2013). Cognitive Load of Learner Control: Extraneous or Germane Load?. *Educational Research International*. **11**.
- Van Merriënboer, J.J.G. & Ayres, P. (2005). Research on Cognitive Load Theory and Its Design Implications for E-Learning. *Educational Technology Research and Development*. **53** (3), 5-13.
- Van Merriënboer, J.J.G., & Sweller, J. (2005). Cognitive Load Theory and Complex Learning: Recent Developments and Future Directions. *Journal of Educational Psychology*. **17** (2).
- Van Merriënboer, J.J.G. & Sluijsmans, D.M.A. (2009). Toward a Synthesis of Cognitive Load Theory, Four-Component Instructional Design, and self-directed learning. *Educational Psychology Review*. **21** (1), 55-66.
- Wulandari, S. (2014). *Interdisciplinary Thinking Skill of High School Students on Connected Teaching of Excretory System Using Instructional Based on Learning Dimensions*. Bachelor Thesis in FPMIPA UPI Bandung: unpublished.
- Yin, K.R. (2013). *Case Study Research Design and Methods*. Chicago: SAGE Publications.