

## DAFTAR PUSTAKA

- Anderson. M., (2000). "The impact of W. Hennig's 'phylogenetic systematics' on contemporary entomology". Zoological Museum, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen, Denmark
- Ali, M. (2011). *Memahami Riset Prilaku dan Sosial*. Pustaka Cendikia Utama. ISBN:978-602-98582-1-1.
- Alshamali, M, A & Daher, W. M. (2015). *Scientific Reasoning and Its Relationship with Problem Solving: the Case of Upper Primary Science Teachers*. Int J of Sci and Math Educ. DOI 10.1007/s10763-015-9646-1
- Ariës. R. J. R, Ghysels. J, Groot.W, Maassen.V. (2016). *Combined working memory capacity and reasoning strategy training improves reasoning skills in secondary social studies education: Evidence from an experimental study*. Thinking Skills and Creativity 22 (2016) 233–246. <http://dx.doi.org/10.1016/j.tsc.2016.10.008>
- Arikunto, S. (2012). *Dasar-Dasar Evaluasi Pendidikan (Edisi Revisi)*. Jakarta : Bumi Aksara
- Arslan. C, Ilkörücü. S. G, & Seden. T. M. (2009). *Learning and reasoning styles of pre service teachers': inductive or deductive reasoning on science and mathematics related to their learning style*. Procedia Social and Behavioral Sciences 1 (2009) 2460–2465. doi:10.1016/j.sbspro.2009.01.432
- Barre. P, Stover. B. C, Muller. K. F., & Steinhage. V. (2017). LeafNet: A computer vision system for automatic plant species identification. Ecological Informatics 40 (2017) 50-56. [Online]. Tersedia: <http://dx.doi.org/10.1016/j.ecoinf.2017.05.005>.
- Bicen. H, & Kocakoyunm. S. (2013). *The Evaluation Of The Most Used Mobile Devices Applications By Students*. Procedia - Social and Behavioral Sciences 89 (2013) 756 – 760. 2ndCyprus International Conference on Educational Research, (CY-ICER 2013). doi: 10.1016/j.sbspro.2013.08.928
- Bickford. D. P, Alford. R, Rump. M. L, Whitfield. S, Karraker. N & Donnelly. M. A. (2018). *Impacts of climate change on Amphibian Biodiversity*. Encyclopedia of The Anthropocene. <http://doi.org/10.1016/6978-0-12-809665-9-10022-9>
- Bidin. S, & Ziden. A. A. (2013). *Adoption and application of mobile learning in the education industry*. Social and Behaviour Science 90 (2013) 720-729. doi: 10.1016/j.sbspro.2013.07.145
- Campbell, N, A., Reece J. B. & Mitchell, L. G. (2014). Tenth Edition *BIOLOGI*.

- Campbell. N. A., Reece. J.B. & Mitchell, L.G. (2008). Edisi kedelapan. Jilid kedua. *BIOLOGI*. Jakarta: Erlangga.
- Christou. C., & Papageorgiou. E. (2007). *A framework of mathematics inductive reasoning*. *Learning and Instruction* 17 (2007) 55e66. doi:10.1016/j.learninstruc.2006.11.009
- Darmawan. D. (2011). *Inovasi Pendidikan*. Pendekatan praktik teknologi multimedia dan pembelajaran online. Penerbit: Remaja Rosdakarya. Cetakan ketiga. ISBN 978-979-629-087.
- Delgado. M. C, Flores. W. Contreras. F, E. L, Galindo. F, & Perez. R. (2006). "XKey: A tool for the generation of identification keys" *ScienceDirect*. Elsevier. doi:10.1016/j.eswa.2005.07.034
- Dyldin. V. Y, & Orlov. M. A. (2017). *An Annotated List of Cartilaginous Fishes (Chondrichthyes: Elasmobranchii, Holocephali) of the Coastal Waters of Sakhalin Island and the Adjacent Southern Part of the Sea of Okhotsk*. ISSN 0032-9452, *Journal of Ichthyology*, 2018, Vol. 58, No. 2, pp. 158–180. © Pleiades Publishing, Ltd., 2018. DOI: 10.1134/S0032945218020042
- Escorizaa, D. (2018). *Processes structuring amphibian assemblages along a subtropical arid gradient*. *Acta Oecologica* 91 (2018) 43–49. <https://doi.org/10.1016/j.actao.2018.06.001>
- Fraenkel, Jack. R., & Norman E. Wallen. (2012). *How to Design and Evaluate Research in Education*. 8th Edition. Boston: McGraw-Hill Higher Education.
- Gedik, N, Hanci. A. K, Kursun. E, & Cagiltay, K. (2012). *Key instructional design issues in a cellular phone-based mobile learning project*. *Science Direct*. Elsevier *Computers & Education* 58 (2012). doi:1149–1159
- Gibbons. W. J, & Luhring. T. M. (2009). *Reptiles*. *Encyclopedia of Vertebrates: Fish, Amphibians, Reptiles, Birds, Mammals* 2nd edition
- Gikas. J & Grant. M. M. (2013). *Mobile computing devices in higher education: Student perspectives on learning with cellphones, smartphones & social media*. *Internet and Higher Education* 19 (2013) 18–26. <http://dx.doi.org/10.1016/j.iheduc.2013.06.002>
- Ginting. P, & Helmi. S. S. (2008). *Filsafat Ilmu dan Metode Riset*. Perpustakaan Nasional: *Katalog Dalam Terbitan (KDT)*. Cetakan Pertama. ISBN: 979 458 336 7.
- Gustavo. L. R. R, Fábio. D. S, & Maurício. R. M. P. Luz. (2013). *The use of internet tools for teaching and learning by in-service biology teachers: A survey in Brazil*. *Teaching and Teacher Education* 34 (2013) 46e55. <http://dx.doi.org/10.1016/j.tate.2013.03.007>
- Hennig. W. (1965). *Phylogenetic Systematics*. *Annu Rev. Entomol.* 1965. 10:97-116. Access provided by Boston University.

- Ifenthaler, D, & Seel, N. M. (2013). *Model-based reasoning*. Computers & Education 64 (2013) 131–142. <http://dx.doi.org/10.1016/j.compedu.2012.11.014>
- Jeno, L. M., Grytnes J.- A. & Vandvik V. (2017). *The effect of a mobile-application tool on biology students' motivation and achievement in species identification: A Self Determination Theory perspective*. Computers & Education, doi: 10.1016/j.compedu.2016.12.011.
- Kuprianaova, N. S. (2009). *Current Views of the Origin and Diversification of Tetrapods*. ISSN 0026-8933, Molecular Biology, 2009, Vol. 43, No. 5, pp. 819–833. © Pleiades Publishing, Inc., 2009. DOI: 10.1134/S0026893309050136
- Krause, K. L., Bochner., & Duchesme, S., (2007). *Educational Psychology for Learning and Teacher, 2nd Edition*. South Melbourne: Nelson Australia Pty limited.
- Lowe, W. H. (2009). *Reptiles*. Encyclopedia of Vertebrates: Fish, Amphibians, Reptiles, Birds, Mammals 2nd edition
- Mahat, J, Fauzi, M. A. A, Luan, S, & Wong. (2012). *An Assessment of Students' Mobile Self-Efficacy, Readiness and Personal Innovativeness towards Mobile Learning in Higher Education in Malaysia*. Social and Behavioral Sciences 64 ( 2012 ) 284 – 290 . International educational technology conference Ietc2012. doi: 10.1016/j.sbspro.2012.11.033
- Mannheimer, J. Z, & Warner, Z. (2016). *Mobile apps for science learning: Review of research*. Computers & Education 94 (2016) 1e17. <http://dx.doi.org/10.1016/j.compedu.2015.11.001>
- Markovits, H., Trémolière, B., & Blanchette, I. (2018). *Reasoning strategies modulate gender differences in emotion processing*. Cognition 170 (2018) 76–82. <http://dx.doi.org/10.1016/j.cognition.2017.09.012>
- Maria. A. T & Vrabie. C. (2015). *Education 2.0:E-Learning Methods*. Social and Behavioral Sciences. 186 ( 2015 ) 376 – 380. 5th World Conference on Learning, Teaching and Educational Leadership, WCLTA 2014. doi: 10.1016/j.sbspro.2015.04.213.
- Maskour, L, Alami, A, Moncef, Z, & Agorram, B., (2016). *Study of some learning difficulties in plant classification among University student*. Researchgate. [Online]. Tersedia: <https://www.researchgate.net/publication/314072351>.
- Meltzer, D. E (2002). *The Relationship between mathematics Preparation and Conceptual Learning Gain in Physics: A Possible "Hidden Variabel" in Diagnostics Pretest Scores*. In American Journal of Physics. Online]. Vol. 70. Page (12) 1259-1268. Tersedia:[http://www.physics.iastate.edu/per/docs/AJP-Des-2002-Vol.70-1259 1268.pdf](http://www.physics.iastate.edu/per/docs/AJP-Des-2002-Vol.70-1259%201268.pdf) (20 Juli,2018)

- Norris, D & Lopez, K. H. (2018). *Hormones and Reproduction in Amphibians and Reptiles*. Encyclopedia of Reproduction, 2nd edition, Volume 6 <https://doi.org/10.1016/B978-0-12-809633-8.20581-5>
- Ömer, A. (2014). *Scientific reasoning, conceptual knowledge, & achievement differences between prospective science teachers having a consistent misconception and those having a scientific conception in an argumentation-based guided inquiry course*. Learning and Individual Differences 30 (2014) 148–154. <http://dx.doi.org/10.1016/j.lindif.2013.12.002>
- Papadakis S., Kalogiannakis M. & Zaranis N. (2017). *Educational apps from the Android Google Play for Greek preschoolers: A systematic review*. Computers & Education (2017), doi:10.1016/j.compedu.2017.09.007.
- Pattnayak, J, & Pattnaik, S. (2016). Integration of web service with E-Learning for knowledge society. Procedia Computer Science 92 (2016) 155-160. doi:10.1016/j.procs.2016.07.340
- Pheeraphan, N. (2013). “Enhancement of the 21st Century Skills for Thai Higher Education by Integration of ICT in Classroom”. ScienceDirect. Elsevier Procedia - Social and Behavioral Sciences 103 (2013) 365 – 373
- Piraksa, C, Srisawasdi, N, & Koul, R., (2013). *Effect of Gender on Students’ Scientific Reasoning Ability : A Case Study in Thailand*. Procedia - Social and Behavioral Sciences 116 (2014) 486 – 491. doi: 10.1016/j.sbspro.2014.01.245.
- Qian, M & Clark K. R. (2016). *Game-based Learning and 21st century skills: A review of recent research*. Computers in Human Behavior. <http://dx.doi.org/10.1016/j.chb.2016.05.023>
- Rotten, N, Joolingen, W. R.V & Van Der Veen, J. T. (2012). *The learning effects of computer simulations in science education*. Computer & Education 58 (2012) 136-153. doi:10.1016/j.compedu.2011.07.017
- Rustaman, N.Y., (1990). *Kemampuan Klasifikasi Logis Anak: Studi tentang Kemampuan Abstraksi dan Inferensi Anak Usia Sekolah Dasar pada Kelompok Budaya Sunda*. Desertasi Doktor IKIP Bandung. Bandung. (Tidak diterbitkan)
- Rustaman, N. Y., (2010). *Arah Pembelajaran Keanekaragaman Tumbuhan dan Asesmennya di LPTK dan Sekolah*. Makalah Ilmiah pada Universitas Pendidikan Indonesia. Bandung. [Online]. Tersedia: [Http://File.Upi.Edu/Direktori/Sps/Prodi.Pendidikan\\_Ipa/195012311979032-Nuryani\\_Rustaman/Arah\\_Pembelajaran\\_Pdf](Http://File.Upi.Edu/Direktori/Sps/Prodi.Pendidikan_Ipa/195012311979032-Nuryani_Rustaman/Arah_Pembelajaran_Pdf). Diunduh 14 Februari 2018
- Salmi, S. J, Fairuz, S. M, Wai, k. W, & Oskam, S. (2015). Utilising Mobile Augmented Reality for Learning Human Anatomy. Procedia - Social and Behavioral Sciences 197 (2015) 659-668. doi:10.1016/j.sbspro.2015.07.054

- Schaal.S , Matt.M , & Grübmeier.S. (2012). *Mobile Learning and biodiversity – bridging the gap between outdoor and inquiry learning in pre-service science teacher education*. *Procedia - Social and Behavioral Sciences* 46 ( 2012 ) 2327 – 2333. doi: 10.1016/j.sbspro.2012.05.479
- Settlage. J, & Southerland. S. A. (2007). *Teaching Science to Every Child: Using Culture as a Starting Point*. 1st Edition. ISBN: 978-0415956376
- Silva. H, Rosa. P, Lopes. L, António. J. A. Nogueira, & Silveira. P. (2011). *”Illustrated plant identification keys: An interactive tool to learn botany”*. ScienceDirect. Elsevier. *Computers & Education* 56 (2011) 969973
- Stephen. S. (2007). *Zoology*. Dept. of Zoology. Govt. Arts College Nandanam, Chennai - 600 035
- Stiggins. R. J. (1994). *Student Centered Classroom Assessment*. New York: Merrill-Mac Millan College Publishing Company
- Sudjana, N. (2005). *”Metoda Statistika”*. Bandung: Penerbit Tarsito.
- Sung. Y. T, Chang. K. E, & Tzu-Chien. L. (2016). *The effects of integrating mobile devices with teaching and learning on students' learning performance: A meta-analysis and research synthesis*. *Computers & Education* 94 (2016) 252e275. <http://dx.doi.org/10.1016/j.compedu.2015.11.008>.
- Suriasumantri. J. S. (2012). *Ilmu Dalam Perspektif. Sebuah Kumpulan Karangan Tentang Hakekat Ilmu*. Yayasan Pustaka Obor Indonesia. Cetakan kedelapanbelas. ISBN: 9778-979-461-805-9.
- Suyanto. H. A. (2007). *”Web Design Theory and Practices”*. Penerbit CV Andy offset.
- Thiagarajan, S., Semmel, D.S & Semmel, M.I. (1974). *Instructional Development for Training Teacher of Exceptional Children*. Minneapolis, Minnesota: Leadership Training Institute/Special Education, University of Minnesota.
- Ting. S.Y, Chang. K. E, & Liu. T. C. (2016). *The effects of integrating mobile devices with teaching and learning on students' learning performance: A meta-analysis and research synthesis*. *Computers & Education* 94 (2016) 252e275. <http://dx.doi.org/10.1016/j.compedu.2015.11.008>
- Ting, Y & Yang, C. (2012). *Building virtual cities, inspiring intelligent citizens: Digital games for developing students' problem solving and learning motivation*. *Computers & Education* 59 (2012) 365–377. doi:10.1016/j.compedu.2012.01.012
- Tobin. K & Capie.W. (1981). *The Development and Validation of a group Test of Logical Thinking*. Download from <http://epm.sagepub.com> at Mina Rees Library/CUNY Graduate Center on January 17, 2008
- Yang. X, Li. X , & Ting Lu. (2015). *Using mobile phones in college classroom settings: Effects of presentation mode and interest on concentration and Achievement*. *Computers & Education*. 292e302. <http://dx.doi.org/10.1016/j.compedu.2015.06.007>.

- Yousafzai. A. Chang. V, Gani. A, & Noor. M. R. (2016). *Multimedia augmented m-learning: issues, trends and open*. International Journal of Information Management. 36 (2016) 7784 - 792. <http://dx.doi.org/10.1016/j.ijinfomgt.2016.05.010>.
- Trudeau & Vance. (2018). *Reproduction in Osteichthyes*. Encyclopedia of Reproduction, Second Edition doi:10.1016/B978-0-12-809633-8.20604-3
- Wang. J. Y, Kai. H. W, & Shao. H. Y., (2017). *Using mobile applications for learning: Effects of simulation design, visual-motor integration, and spatial ability on high school students' conceptual understanding*. Computers in Human Behavior 66 (2017) 103e113. <http://dx.doi.org/10.1016/j.chb.2016.09.032>.
- Zhou. S, Han. J, Koenig. K, Raplinger. A, Pi. Y, Li. D, Xiao. H, Fu. Z, & Bao. L., (2015). *Assessment of scientific reasoning: The effects of task context, data, and design on student reasoning in control of variables*. <http://dx.doi.org/10.1016/j.tsc.2015.11.004>. 1871-1871/© 2015 Elsevier Ltd. All rights reserved. Thinking Skills and Creativity 19 (2016) 175–187