REFFERENCES

- Abbott, J. (2014). Student life in a class society. Elsevier. British Journal of Educational Technology, 33(5), 593-602. [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]
- Bandura, A. (2007). Much ado over a faulty conception of perceived self-efficacy grounded in faulty experimentation. *Journal of Social and Clinical Psychology*, 26(6), 641 [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]
- Bennett, R. E. (2002). Inexorable and Inevitable: The Continuing Story of Technology and Assessment. *Journal of Technology, Learning and Assessment, 1.* [Accessed on October 10, 2015]
- Bleidorn, W., Arslan, R. C., Denissen, J. J., Rentfrow, P. J., Gebauer, J. E., Potter, J., & Gosling, S. D. (2015). Age and Gender Differences in Self-Esteem—A Cross-Cultural Window. NJ: US
- Bridgeman, B. (2009). Experiences from Large-Scale Computer-Based Testing in the USA. In F. Scheuermann, and J. Björnsson (Eds.), The transition to computer-based assessment. New approaches to skills assessment and implications for large-scale testing (pp. 39-44).
- Burroughs. (2003). *Solar Radiation*. [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]
- Carlson, B. M. (2013). *Human embryology and developmental biology*. Elsevier Health Sciences.
- Clariana, R., and Wallace, P. (2002). Paper–based versus computer–based assessment: key factors associated with the test mode effect. *British Journal of Educational Technology*, *33*(5),593-602. Retreived from: http://www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]
- Chislett, V and Chapman A (2005). Learning Style Inventory *Journal of Research* on *Technology in education*, *34*(2), 107-119. [Online]. Retrieved from http://www.bussinessballs.com/. [Accessed on December 7, 2015]
- Coldren, J., and Hively, J. (2009). Interpersonal teaching style and student impression formation. *College Teaching*, 57(2), 93-98. [Accessed on July 30, 2016]

- Creswel, J. W. (2011). Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research. Boston: Pearson.
- Croker, L. and Algina, J. (2006). *Introduction to Classical and Modern Test Theory*. Mason: Cengage Learning. NJ: US
- Dangermon, J and Esri, M.A. (2006). *Climate Change is A Geographics Problem*. [Online]. Retrieved from: http://www.esri.com/. [Accessed on December 1, 2015]
- Dantas-Whitney, M. (2002). Critical Reflection in the Second Language Classroom through Audiotaped journals. SYSTEM, 30, 543-555. [Accessed on July 30, 2016]
- Dewey, J. (2013). *The school and society and the child and the curriculum*. University of Chicago Press.
- Dieterding, W. (2006). A Virtual Test Facility for the Efficient Simulation of Solid Material Response Under Strong Shock and Detonation Wave Loading *The Journal of Technology, Learning and Assessment*, 4(6). [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on March 7, 2016]
- Duan-Yi, W., Xiao-Ning, Z., & Shao-Huai, W. (2003). Evaluation on grading type of asphalt mixture with virtual test method. *Journal of South China University of Technology (Natural Science Edition)*, 31(2), 48-51. [Accessed on October 10, 2015]
- DuFour, R., & DuFour, R. (2010). The role of professional learning communities in advancing 21st century skills. 21st century skills: Rethinking how students learn, 77-95.
- Eagly, A. H. (2013). Sex differences in social behavior: A social-role interpretation. Psychology Press.
- Evans, M., Fryzek, J. P., Elinder, C. G., Cohen, S. S., McLaughlin, J. K., Nyrén, O., and Fored, C. M. (2005). The natural history of chronic renal failure: results from an unselected, population-based, inception cohort in Sweden. *American Journal of Kidney Diseases*, 46(5), 863-870.
- Facione, P. A. (2011). Critical thinking: What it is and why it counts. Retrieved from:
 www.insightassessment.com/content/download/1176/.../whatandwhy2010
 [Online]. Retrieved from : http://www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]

- Fahim S. and Pezeshki, L.U (2012). Manipulating Critical Thinking Skills in Test Taking *Journal of Research on Technology in education*, *34*(2), 109-119. Online]. Retrieved from http://www.iaea.info/. [Accessed on December 7, 2015]
- Ferrer, B.A, and Guzman S. (2009). Comparability Paper and Pencil Test and Computer Based Test on Psychological Test. *Journal of Artificial intelligence in education*, *11*(1), 47-78. [Online]. Retrieved from : http://www.llt.msu.edu/. [Accessed on December 1, 2015]
- Figueroa, M and Montenegro, R (2003). How Can Paper and Pencil Tests and Performance Assessments be Used to Effectively Measure Different Knowledge Types and Skills in Science. International Journal of Education. 1 (5), 235-267. [Online]. Retrieved from http://www.iaea.info/. [Accessed on December 7, 2015]
- Firman, H, and Rusyati, L. (2015). Development of Science Virtual Test as Student Centered Software to Measure Students' Critical Thinking Skill. *Unpublished Research Report*.
- Forster B, and Margaret E. "Higher order thinking skills." (2004). [Accessed on July 3, 2016]
- Freankle, J. R., Wallen, N. E., and Hyun, H. H (2011). *Validity and Reliability, How to Design An Evaluate Research in Scinece Education (eighth edition)*. Boston: Pearson.
- Gholamreza, J. (2010). Assessment of validity, reliability and difficulty indices for teacher-built physics exam questions in first year high school. *Educational Research and Reviews*, 5(11), 651-654.
- Graw, M. (2013). *General Biology*. [Online]. Retrieved from: http://www.biology.rutgers.edu/. [Accessed on December 3, 2015]
- Grimley, M., Green, R., Nilsen, T., & Thompson, D. (2012). Comparing computer game and traditional lecture using experience ratings from high and low achieving students. *Australasian Journal of Educational Technology*, 28(4) [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]
- Hawk, T. F., & Shah, A. J. (2007). Using learning style instruments to enhance student learning. *Decision Sciences Journal of Innovative Education*, 5(1), 1-19.

- Honey, M. A., & Hilton, M. (Eds.). (2011). Learning science through computer games and simulations. National Academies Press.
- Hopson, M. H., Simms, R. L., & Knezek, G. A. (2004). Using a technology-enriched environment to improve higher-order thinking skills. *Journal of Research on Technology in education*, 34(2), 109-119. [Accessed on July 3, 2016]
- Inch. (2006). *Critical Thinking*. [Online]. Retrieved from http://www. http://critical-thinking.orc/. [Accessed on October 10, 2015]
- Jackson, D., Engstrom, E., & Emmers-Sommer, T. (2007). Think leader, think male and female: Sex vs. seating arrangement as leadership cues. *Sex Roles*, 57(9-10), 713-723.
- Jacob, D. J., & Winner, D. A. (2009). Effect of climate change on air quality. *Atmospheric environment*, 43(1), 51-63.
- Jandaghi, G. (2010). Assessment of Validity, reliability, and Difficulty indices for teacher- built physics exam questions in first year high schools. *Research and Reviews*, 18(4), 459. [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 20, 2015]
- Johnson, W. L., Rickel, J. W., & Lester, J. C. (2000). Animated pedagogical agents: Face-to-face interaction in interactive learning environments. *International Journal of Artificial intelligence in education*, 11(1), 47-78.
- King, A. (2002). Effects of self-questioning training on college students' comprehension of lectures. *Contemporary Educational Psychology*, *14*(4), 366-381 [Online]. Retrieved from : http://www.www.iac.ethz.ch/edu./[Accessed on December 7, 2015]
- Lau, J. (2009). A Mini Guide to Critical Thinking. Retrieved from: http://philosophy.hku.hk/think/misc/miniguide.pdf (June 20, 2011)
- Letourneau, D. K., Armbrecht, I., Rivera, B. S., Lerma, J. M., Carmona, E. J., Daza, M. C., ... & Mejía, J. L. (2011). Does plant diversity benefit agroecosystems? A synthetic review. *Ecological Applications*, 21(1), 9-21.
- McAdam & Pals, E. (2006). Using learning style instruments to enhance student learning. *Decision Sciences Journal of Innovative Education*, *5*(1), 1-19 [Online]. Retrieved from: http://www.www.iac.ethz.ch/edu./ [Accessed on December 7, 2015]

- Moldan, B. Hák, T., Janoušková, S., & Moldan, B. (2012). Sustainable Development Goals: A need for relevant indicators. *Ecological Indicators*, 60, 565-573.
- Molnar, G. (2010). *Technology-based assessment: Challenges and Promises*. Hungary. 24-27, October, 2010.
- Molnar, G., Toth, K. R., and Csapo, B. (2011). Comparing Paper-based and Computer-based Testing in The First Grade.
- Myers, B. E., & Dyer, J. E. (2006). The influence of student learning style on critical thinking skill. *Journal of Agricultural Education*, 47(1), 43.
- Nasional, K. P. (2010). Rencana Strategis Kementrian Pendidikan Nasional 2010-2014. *Jakarta: Kemendiknas*.
- Nugent, P. M., and Vitale, B. A. (2008). Fundamental success: A course review applying critical thinking to test taking. USA: F. A. Davis Company.
- Palloff, R. M. (5). Pratt., K.(2001). Lessons from the cyberspace classroom: The realities of online teaching.
- Pearce, J. (2002). Civil society and development: A critical exploration. Lynne Rienner Publishers.
- Purnomo, W. (2008). Pembelajaran Berbasis ICT. In Workshop Pembelajaran Berbasis ICT. http://wahyupur. blogspot. com.
- Reece, J., Urry, L. A., Meyers, N., Cain, M. L., Wasserman, S. A., Minorsky, P. V., ... & Cooke, B. N. (2011). *Campbell biology*. Pearson Higher Education AU.
- Roever, C. (2011). *Web-based Language Testing*. [Online]. Retrieved from: http://www.llt.msu.edu/. [Accessed on December 1, 2015]
- Roever, C. (2011). Web-based language testing. *Language Learning and Technology*, 5(2), 84-94.
- Rozalan,A, and Saat. (2015). The Perception of Critical Thinking and Problem Solving Skill among Malaysian Undergraduate Students. [Online]. Retrieved from http://www. http://critical-thinking.orc /. [Accessed on February 10, 2016]

- Rubin, J, and Chisnell, D, (2008). *Handbook of Usability Testing*. [Online]. Retrieved from: http://www.ccftp.scu.edu/. [Accessed on December 7, 2015]
- Rubin, J., and Chisnell, D. (2008). *Handbook of usability testing: how to plan, design and conduct effective tests*. John Wiley and Sons
- Rudner, L. and W. Schafer. (2002). What Teachers Need to Know about Assessment. [Online]. Retrieved from http://www. http://echo.edres.org/. [Accessed on December 7, 2015]
- Sabri, S. (2013). Item Analysis of Student Comprehensive Test for Research in Teaching Beginner String Ensemble Using Model Based Teaching among Music Students in Public Universities. International Journal of Education and Research. 1(12). 1-14. [Online]. Retrieved from http://www.ijern.com/[Accessed on December 5th, 2015]
- Scalise, K., & Gifford, B. (2006). Computer-based assessment in e-learning: A framework for constructing" intermediate constraint" questions and tasks for technology platforms. *The Journal of Technology, Learning and Assessment*, 4(6).
- Scheuermann, F. and Björnsson, J. (2010, Eds.). *The transition to computer-based assessment.*
- Schmeck, R. R. (Ed.). (2013). *Learning strategies and learning styles*. Springer Science & Business Media.
- Scriven, M., and Paul, R. (2008). Critical thinking. In *The 8th Annual International Conference on Critical Thinking and Education Reform, CA*. [Online]. Retrieved from http://www. http://critical-thinking.orc /. [Accessed on February 10, 2016]
- Sibly, R. M., & Hone, J. (2002). Population growth rate and its determinants: an overview. *Philosophical Transaction of The Royal Society*.
- Slatter. E.T, Lujan, H. L., & DiCarlo, S. E. (2007). Gender differences in learning style preferences among undergraduate physiology students. *Advances in Physiology Education*, 31(2), 153-157. Retrieved from http://www.http://echo.edres.org/. [Accessed on December 7, 2015]
- Sun's Effect on Earth. (2008). In Windows to the Universe. Retrieved from http://www.windows2universe.org/-sun/effect_on_earth.html . [Accessed on November 6, 2015]

- Sutton, P. (2004). A perspective on environmental sustainability. *Paper on the Victorian Commissioner for Environmental Sustainability*.
- Swarat, S., Ortony, A., & Revelle, W. (2012). Activity matters: Understanding student interest in school science. *Journal of Research in Science Teaching*, 49(4), 515-537.
- Thompson, W. (2011). Critical Thinking Across the Curriculum: Process over Output. [Online]. Retrieved from http://www.iaea.info/. [Accessed on December 27, 2015]
- Vaishnav, R. S. (2013). Learning style and academic achievement of secondary school students. *Voice of Research*, *I*(4), 1-4.
- Vasileva-Stojanovska, T., Malinovski, T., Vasileva, M., Jovevski, D., & Trajkovik, V. (2015). Impact of satisfaction, personality and learning style on educational outcomes in a blended learning environment. *Learning and Individual Differences*, 38, 127-135.
- Voyer, D., & Voyer, S. D. (2014). Gender differences in scholastic achievement: A meta-analysis. *Psychological Bulletin*, *140*(4), 1174.
- Wehrwein, E. A., Lujan, H. L., & DiCarlo, S. E. (2007). Gender differences in learning style preferences among undergraduate physiology students. *Advances in Physiology Education*, 31(2), 153-157.
- Werrell, Q. (2014). Skill Requirement for Computer Advanced. Boston: Pearson. . [Accessed on April 6, 2016]