

DAFTAR PUSTAKA

- Abdous, M., Facer, B. R., & Yen, C. J. (2012). Academic effectiveness of podcasting: A comparative study of integrated versus supplemental use of podcasting in second language classes. *Computers and Education*, 58(1), 43–52.
- Aiken, L. R. 1895. Three Coefficients for Analyzing the Realibility and Validity of Ratings. *Educational and Psychological Measurement* 45: 131–142.
- Aikenhead, G. (2003). Chemistry and Physics instruction: Integration, ideologies, and choices. *Chemistry Education: Research and Practice*, 4(2), 115–130.
- Ainsworth, S. (1999). The functions of multiple representations. *Computers & Education*, 33(2–3), 131–152.
- Akker, van den J. (1999). Principles and methods of development research. In J. van den Akker, N. Nieveen, R.M. Branch, K.L. Gustafson & T. Plomp (Eds.), *Design methodology and developmental research in education and training* (pp. 1-14). The Netherlands: Kluwer Academic Publishers.
- Ali, T. (2012). A case study of the common difficulties experienced by high school students in chemistry classroom in gilgit-baltistan (Pakistan). *SAGE Open*, 2(2), 1–13.
- Aloraini, S. (2012). The impact of using multimedia on students' academic achievement in the College of Education at King Saud University. *Journal of King Saud University - Languages and Translation*, 24(2), 75–82.
- Ariani, N & Haryanto, D. (2010). *Pembelajaran Multimedia di Sekolah*. Jakarta: Prestasi Puskarya
- Arikunto, S. (2010). *Prosedur Penelitian Suatu Pendekatan Praktik*. Jakarta: Rineka Cipta.
- Arsyad, A. (2008). *Media Pembelajaran*. Jakarta: PT Raya Grafindo Persada.
- Anderson, R.H. 1976. *Selecting and Developing Media for Instruction*. Van Nostrand: Reinhold Co. Inc.
- Atkinson, R. C., & Shiffrin, R. M. (1968). Human memory: A proposed system and its control processes. *Psychology of learning and motivation*, 2, 89-195.
- Awla, H. A. (2014). Learning Styles and Their Relation to Teaching Styles. *International Journal of Language and Linguistics*, 2(3), 241.
- Baddeley, A. D. (2001). Is working memory still working? *American Psychologist*, 56(11), 851.

- Bannan-Ritland, B. (2003). The role of design in research: The integrative learning design framework. *Educational Researcher*, 32(1), 21-24.
- Barab, S., & Squire, K. (2004). Design-based research: Putting a stake in the ground. *The Journal of the Learning Sciences*, 13(1), 1- 14.
- Barke, H.-D., Harsch, G., & Schmid, S. (2012). *Essentials of Chemical Education*. New York: Springer.
- Bartle, E., Longnecker, N., & Pegrum, M. (2011). Collaboration, contextualisation and communication using new media: Introducing podcasting into an undergraduate chemistry class. *International Journal of Innovation in Science and Mathematics Education*, 19(1).
- Blascovich, J., Mendes, W. B., Hunter, S. B., Lickel, B., & Kowai-Bell, N. (2001). Perceiver threat in social interactions with stigmatized others. *Journal of Personality and Social Psychology*, 80, 253–267.
- Belk, R. W. (1975). Situational Variables and Consumer Behavior. *Journal of Consumer Research: An Interdisciplinary Quarterly*, 2(3), 157–164.
- Binadja, A., Wardani, S., & Nugroho, S. (2008). Keberkesanan Pembelajaran Kimia Materi Ikatan Kimia Bervisi SETS pada Hasil Belajar Siswa. *Jurnal Inovasi Pendidikan*, 2(2), 256–262.
- Broman, K., Ekborg, M., & Johnels, D. (2011). Chemistry in crisis? Perspectives on teaching and learning chemistry in Swedish upper secondary schools. *NorDiNa*, 7(1), 43–60.
- Brunstein, J. C., & Maier, G. W. (2005). Implicit and self-attributed motives to achieve: Two separate but interacting needs. *Journal of Personality and Social Psychology*, 89, 205-222.
- Butler, R. (1999). Information seeking and achievement motivation in middle childhood and adolescence: The role of conceptions of ability. *Developmental Psychology*, 35, 146-163.
- Cahyana, U., Paristiowati, M., Savitri, D. A., & Hasyrin, S. N. (2017). Developing and application of mobile game-based learning (M-GBL) for high school students performance in chemistry. *Eurasia Journal of Mathematics, Science and Technology Education*, 13(10), 7037–7047.
- Cardellini, L. (2012). Chemistry: Why the subject is difficult? *Educación Química*, (Published online), 1–6.
- Carter, C. S., & Brickhouse, N. W. (1989). What makes chemistry difficult? Alternate perceptions. *Journal of Chemical Education*, 66(3), 223.

- Carvalho, A. A., & Aguiar, C. (2009). Impact of Podcasts in Teacher Education: from consumers to producers. *Proceedings of Society for Information Technology & Teacher Education International Conference 2009*, (2005), 2473–2480.
- Cheung, D. (2009). Students' attitudes toward chemistry lessons: The interaction effect between grade level and gender. *Research in Science Education*, 39(1), 75–91.
- Clayson, D. E. (2013). Initial Impressions and the Student Evaluation of Teaching. *Journal of Education for Business*, 88(1), 26–35.
- Copley, J. (2007). Audio and video podcasts of lectures for campus-based students: Production and evaluation of student use. *Innovations in Education and Teaching International*, 44(4), 387–399
- Copolo, C. E., & Hounshell, P. B. (1995). Using three-dimensional models to teach molecular structures in high school chemistry. *Journal of Science Education and Technology*, 4(4), 295–305.
- Cowan, N. (2014). Working Memory Underpins Cognitive Development, Learning, and Education. *Educational Psychology Review*, 26(2), 197–223.
- Cowen, P. S. (1984). Film and text: Order effects in recall and social inferences. *Educational Communication & Technology*, 32(3), 131–144.
- Craik, F. I., & Lockhart, R. S. (1972). Levels of processing: A framework for memory research. *Journal of verbal learning and verbal behavior*, 11(6), 671–684.
- Dahar, R. W. (2006) *Teori-Teori Belajar & Pembelajaran*. Jakarta: Erlangga
- Dale, E. A. (1969). *Audiovisual methods in teaching* (3rd ed.). New York: Holt, Rinehart, & Winston.
- Dewey, J. (1915). *The school and society*. Chicago: The University of Chicago Press.
- Dewey, J. (1966). *Experience and Education*. In Garforth, F.W. John Dewey: *Selected Educational Writings*. London: Heinemann.
- Demirdag, S. (2014). Effective Teaching Strategies and Student Engagement: Students with Learning Disabilities. *International Journal of Teaching and Education*, II (3), 168–175.
- Dicks, M. R., Pruitt, J. R., & Tilley, D. S. (2008). Determinants of Students' First Impression of Instructors and Courses. *The Southern Agricultural Economics Association Annual Meeting*, 1-17.
- Djamarah, S. B & Zain, A. (2006). *Strategi Belajar Mengajar*. Jakarta: Rineka Cipta
- Donnelly, K., & Berge, Z. (2006). Podcasting: co-opting MP3 players for education and training purposes. *Online Journal of Distance Learning Administration*, 9(3).

- Drew, C. (2017). Edutaining audio: an exploration of education podcast design possibilities. *Educational Media International*, 54(1), 48–62.
- Durbridge, N. (1984). *Media in course design, No. 9, audio cassettes. The Role of technology in distance education*. Kent, UK: Croom Helm.
- Dzulkifli, M. A., & Mustafar, M. F. (2013). The Influence on Memory Performance. *Malaysian Journal of Medical Science*, 20(2), 3–9.
- Eisenberger, R. (1966). Drives, reinforcement, and personality. *America*, (6), 855–862.
- Ekman, P. (2007). *Emotions revealed: Recognizing faces and feelings to improve communication and emotional life*. New York: Oxford University Press.
- Enjoh, R. M. P. (2018). The Impact of School Facilities on Teaching and Learning in Presbyterian Secondary Schools in the SW of Cameroon. *International Journal of Trend in Scientific Research and Development*, 2(6), 1427–1437.
- Fajriah. (2017). Improving Teaching Strategies Through Students' Reflections. *Sukma: Jurnal Pendidikan*, 1(2), 301–327.
- Farida, I. (2009). The Importance of Development of Representational Competence in Chemical Problem Solving Using Interactive Multimedia. *Proceeding of The Third International Seminar on Science Education*, (October), 259–277.
- Figueroa, L. L., Lim, S., & Lee, J. (2016). Investigating the relationship between school facilities and academic achievements through geographically weighted regression. *Annals of GIS*, 22(4), 273–285.
- Gabel, D. (2009). Improving Teaching and Learning through Chemistry Education Research: A Look to the Future. *Journal of Chemical Education*, 76(4), 548.
- Gabel, D. L., & Samuel, K. V. (1987). Understanding the Particulate Nature of Matter. *Journal of Chemical Education*, 64(8), 695–697.
- Gay, L.R. (1992). *Educational research: Competencies for analysis and application* (4th ed.). New York: Merrill
- Gilbert, J. K., & Treagust, D. F. (2009). *Models and Modeling in Science Education: Multiple Representations in Chemical Education* (Volume 4). Scotland: Springer.
- Gilbret, D. T. (2006). *Stumbling on Happiness*. New York: Knopf.
- Gkitzia, V., Salta, K., & Tzougraki, C. (2011). Development and application of suitable criteria for the evaluation of chemical representations in school textbooks. *Chemistry Education Research and Practice*, 12(1), 5–14.

- Gregg, A. P., Seibt, B., & Banaji, M. R. (2006). Easier done than undone: Asymmetry in the malleability of implicit preferences. *Journal of Personality and Social Psychology*, *90*, 1–20.
- Guyll, M., Madon, S., Prieto, L., & Scherr, K. C. (2010). The potential roles of self-fulfilling prophecies, stigma consciousness, and stereotype threat in linking Latino/a ethnicity and educational outcomes. *Journal of Social Issues*, *66*(1), 113–130.
- Gyasi, H., Ofoe, E. O., & Samlafo, V. B. (2018). The Effect of Molecular Model Sets on Students' Academic Performance in Naming Organic Compounds, *8*(3), 37–41.
- Halim, N. D. A., Ali, M. B., Yahaya, N., & Said, M. N. H. M. 2013. Mental Model in Learning Chemical Bonding: A Preliminary Study. *Procedia - Social and Behavioral Sciences*, *97*: 224 – 228
- Halimah, M., Ayuni, N. D., & Hadiyati, Y. (2017). *Jurnal Riset Pendidikan Kimia* ARTICLE, *7*(1), 52–58.
- Harackiewicz, J. M., Barron, K. E., Carter, S. M., Lehto, A. T., & Elliot, A. J. (1997). Predictors and consequences of achievement goals in the college classroom: Maintaining interest and making the grade. *Journal of Personality and Social Psychology*, *73*, 1284-1295.
- Harianto, A., & Khery, Y. (2017). Pengembangan Media Pembelajaran Kimia Berbasis Android untuk Penumbuhan Literasi Sains Siswa pada Program Studi Pendidikan Kimia FPMIPA IKIP Mataram. *Jurnal Kependidikan Kimia Hydrogen*, *5*(2), 33–44. <https://doi.org/ISSN 2338-6480>
- Harris, M. A., Peck, R. F., Colton, S., Morris, J., Neto, E. C., & Kallio, J. (2009). A Combination of Hand-held Models and Computer Imaging Programs Helps Students Answer Oral Questions about Molecular Structure and Function: A Controlled Investigation of Student Learning. *CBE-Life Science Education*, *8*, 29–43. <https://doi.org/10.1187/cbe.08-07-0039>
- Hasbullah, A., Yusoff, W. Z. W., Ismail, M., & Vitasari, P. (2011). A framework study of school facilities performance in public primary school of Batubara district in Indonesia. *Procedia - Social and Behavioral Sciences*, *15*, 3708–3712. <https://doi.org/10.1016/j.sbspro.2011.04.360>
- Helmenstine, A. M. (2017). Why Is Chemistry So Hard? Diperoleh 11 Januari 2018 dari <https://www.thoughtco.com/why-is-chemistry-so-hard-604145>
- Herga, N. R., Grmek, M. I., & Dinevski, D. (2014). Virtual laboratory as an element of visualization when teaching chemical contents in science class. *Turkish Online Journal of Educational Technology*, *13*(4), 157–165.

- Herrington, J. A., McKenney, S., Reeves, T. C. & Oliver, R. (2007). Design-based research and doctoral students: Guidelines for preparing a dissertation proposal. In C. Montgomerie & J. Seale (Eds.), *Proceedings of EdMedia 2007: World Conference on Educational Multimedia, Hypermedia & Telecommunications* (pp. 4089-4097). Chesapeake, VA: AACE.
- Hew K.F., (2009) Use of audio podcast in K-12 and higher education:a review of research topics and methodologies, *Education Tech Research Dev*, p. 333-357
- Hofstein, A., Eilks, I., & Bybee, R. (2011). Societal issues and their importance for contemporary science education-a pedagogical justification and the state-of-the-art in Israel, Germany, and the USA. *International Journal of Science and Mathematics Education*, 9(6), 1459–1483.
- Ibrahim, N. (2017). Pengembangan Media Pembelajaran Mobile Learning Berbasis Android Mata Pelajaran Ipa Untuk Siswa Smp, 8(1).
- Indriyanti, N. Y. (2016). *The Mole Concept: Students' Misconception, Difficulties, and the Challenge*. Muenster: Schöningh Verlag.
- Jaber, L. Z., & BouJaoude, S. (2012). A Macro-Micro-Symbolic Teaching to Promote Relational Understanding of Chemical Reactions. *International Journal of Science Education*, 34(7), 973–998.
- Jalil, N. A., Yunus, R. M., & Said, N. S. (2012). Environmental Colour Impact upon Human Behaviour: A Review. *Procedia - Social and Behavioral Sciences*, 35(December 2011), 54–62.
- JISC (2005) *Innovative Practice with E-Learning: A Good Practice Guide to Embedding Mobile and Wireless Technologies into Everyday Practice*. Bristol: HEFCE
- Johnstone, A. H. (1991). Why is science difficult to learn? Things are seldom what they seem. *Journal of Computer Assisted Learning*, 7, 75–83.
- Keenan, S. W., Kleinfelter, D. C., Wood, J. H. (1984). *Kimia untuk Universitas* (Terjemahan). Jakarta: Erlangga.
- Keltner, D., Oatley, K., & Jenkins, J. M. (2014). *Understanding Emotions*. Hoboken: Wiley.
- Keshavarz, E. (2018). Hand-Made, Three-Dimensional Molecular Model for Active Inorganic Chemistry Learning. *Creative Education*, 09(07), 1168–1173. <https://doi.org/10.4236/ce.2018.97086>

- Khoiriah, Jalmo, T., & Abdurrahman. (2016). The effect of multimedia-based teaching materials in science toward students' cognitive improvement. *Jurnal Pendidikan IPA Indonesia*, 5(1), 75–82.
- Krathwohl, D. (1993). *Methods of educational and social science research: An integrated approach*. New York: Longman
- Kubiatko, M. (2015). Is chemistry attractive for pupils? Czech pupils' perception of chemistry, *11*(4), 855–863.
- Kurt, S., & Osueke, K. K. (2014). The Effects of Color on the Moods of College Students. *SAGE Open*, 4(1), 1–12.
- Lakoff, G. (1991). Cognitive versus generative linguistics: How commitments influence results. *Language and Communication*, 11(1–2), 53–62.
- Lee, M. J. W., McLoughlin, C., & Chan, A. (2008). Talk the talk: Learner-generated podcasts as catalysts for knowledge creation. *British Journal of Educational Technology*, 39(3), 501–521.
- Leite, B. S. (2016). Podcasts in the Chemistry Teaching. *Orbital - The Electronic Journal of Chemistry*, 8(6), 341–451.
- Limatahu, N. A., Rahman, N. A., Hayatun, S., Abu, N., & Cipta, I. (2017). The Influence of Practicum Video with Electronic Module Toward Process Skills for Stoichiometry Materials of the Grade X of SMAN 2 Tidore Islands, *Jurnal Pendidikan Kimia*, 9(1), 225–228.
- Linn, M., Davis, E. & Bell, P. (2004). *Internet Environments for Science Education*. London: Lawrence Earlbaum Associates.
- Loewenstein, G. F., Weber, E. U., Hsee, C. K., & Welch, N. (2001). Risk as Feelings. *Psychological Bulletin*, 127(2), 267–286.
- Mann, T. C., & Ferguson, M. J. (2015). Can we undo our first impressions? The role of reinterpretation in reversing implicit evaluations. *Journal of Personality and Social Psychology*, 108, 823–849.
- Martinez-Hernandez, K., Ikpeze, C., & Irene, K. (2015). Perspectives on Science Literacy: A comparative study of United States and Kenya. *Educational Research International*, 25–34.
- Marshall, C., & Rossman, G. (1999). *Designing qualitative research* (3rd ed.). Thousand Oaks, CA: Sage
- Matava, C. T., Rosen, D., Siu, E., & Bould, D. M. (2013). ELearning among Canadian anesthesia residents: A survey of podcast use and content needs. *BMC Medical Education*, 13(59).

- Mayer, R. E. (2009). *Multimedia Learning*. Cambridge: Cambridge University Press.
- McLeod, S. (2010). Kolb - Learning Styles. *Simply Psychology*, 1. <https://doi.org/10.1080/0144341032000146476>
- Miles, M. & Huberman, M. (1994). *Qualitative data analysis*. London: Sage
- Morris, C. D., Bransford, J. D., & Franks, J. J. (1977). Levels of processing versus transfer appropriate processing. *Journal of verbal learning and verbal behavior*, 16(5), 519-533.
- Moskowitz, G. B., & Olcaysoy Okten, I. (2016). Spontaneous goal inference (SGI). *Social and Personality Psychology Compass*, 10, 64–80.
- Mulyani, S., Liliyasi, Wiji, Hana, M. N., & Nursa'Adah, E. (2016). Improving students' generic skill in science through chemistry learning using ict-based media on reaction rate and osmotic pressure material. *Jurnal Pendidikan IPA Indonesia*, 5(1), 150–156.
- Nakhleh, M. B. (1992). Why some students don't learn chemistry: Chemical misconceptions. *Journal of Chemical Education*, 69(3), 191–196.
- Naude, F. (2015). Foundation-phase children's causal reasoning in astronomy, biology, chemistry and physics. *South African Journal of Childhood Education*, 5(3), 1–9.
- Nozari, A. Y., & Siamian, H. (2015). The effect of applying podcast multimedia teaching system on motivational achievement and learning among the boy students. *Acta Informatica Medica*, 23(1), 29–32.
- Özmen, H. 2008. The influence of computer-assisted instruction on students' conceptual understanding of chemical bonding and attitude toward chemistry: A case for Turkey. *Computers & Education*, 51(1): 423–438.
- Peck, B. M., & Denney, M. (2012). Disparities in the conduct of the medical encounter: The effects of physician and patient race and gender. *Sage Open*, 2.
- Pekdağ, B. (2010). Alternative Methods in Learning Chemistry: Learning with Animation, Simulation, Video and Multimedia. *Journal of Turkish Science Education*, 7(2), 111–118.
- Pine, K., Messer, D., & John, K. S. (2016). Research in Science & Technological Education Children's Misconceptions in Primary Science: A Survey of teachers' views. *Science*, 5143(March 2012), 37–41.
- Pinker, S. (1997). *How mind works*. Penguin, 672.

- Pope, D. J., Butler, H., & Qualter, P. (2012). Emotional Understanding and Color-Emotion Associations in Children Aged 7-8 Years. *Child Development Research*, 2012, 1–9.
- Powell, C. B., & Mason, D. S. (2013). Effectiveness of Podcasts Delivered on Mobile Devices as a Support for Student Learning During General Chemistry Laboratories. *Journal of Science Education and Technology*, 22(2), 148–170.
- Priyambodo, E., & Wulaningrum, S. (2017). Using Chemistry Teaching Aids Based Local Wisdom as an Alternative Media for Chemistry Teaching and Learning. *International Journal of Evaluation and Research in Education*, 6(4), 295–298.
- Quick, D.L. and Nelson, J.C. (1997). *Organisational Behavior: Foundations, Realities, and Challenges*. New York: West Publishing Company.
- Rabin, M., & Schrag, J.L. (1999). First Impression Matter: A Model of Confirmatory Bias. *The Quarterly Journal of Economics*, 114 (1): 37-82.
- Reeves, T.C. (1999). A research agenda for interactive learning in the new millennium. In P. Kommers & G. Richards (Eds.), *World Conference on Educational Multimedia, Hypermedia and Telecommunications 1999* (pp. 15-20). Norfolk, VA: AACE.
- Reeves, T.C. (2006). Design research from a technology perspective. In J. van den Akker, K. Gravemeijer, S. McKenney & N. Nieveen (Eds.), *Educational design research* (pp. 52-66). London: Routledge.
- Risnawati, Amir, Z., & Sari, N. (2018). The development of learning media based on visual, auditory, and kinesthetic (VAK) approach to facilitate students' mathematical understanding ability. *Journal of Physics: Conference Series*, 1028(1).
- Rule, N. O., and Ambady, N. (2008). *Neural Under Pinnings*. Diperoleh 11 Januari 2018 dari [http://psych.utoronto.ca/users/rule/pubs/2008/Rule&Ambady\(2008_1stImpress\).pdf](http://psych.utoronto.ca/users/rule/pubs/2008/Rule&Ambady(2008_1stImpress).pdf)
- Rumelhart, D. E., McClelland, J. L., & PDP Research Group. (1988). Parallel distributed processing (Vol. 1, pp. 354-362). *IEEE*.
- Sadker, D. (2002). An Educator's Primer to the Gender War. *Phi Delta Kappan*, 84(3), 235–240.
- Salmon, G. & Nie, M. (2008) 'Doubling the life of iPods'. In G. Salmon & P. Edirisingha (eds), *Podcasting for Learning in Universities*. Maidenhead: Open University Press.

- Samudra, P. G., Min, I., Cortina, K. S., & Miller, K. F. (2016). No Second Chance to Make a First Impression: The “Thin-Slice” Effect on Instructor Ratings and Learning Outcomes in Higher Education. *Journal of Educational Measurement*, 53(3), 313–331.
- Sanger, M. J., Brecheisen, D. M., and Hynek, B. M. (2001). Can Computer Animations Affect College Biology Students’ Conceptions About Diffusion & Osmosis? *Am. Biol. Teach.*, vol. 63, no. 2, pp. 104–109, 2001
- Saputra, I. G. N. H., Joyoatmojo, S., & Harini, H. (2018). The implementation of project-based learning model and audio media Visual can increase students’ activities. *International Journal of Multicultural and Multireligious Understanding*, 5(4), 166.
- Sarıtaş, M. T. (2016). Chemistry teacher candidate acceptance and opinions about virtual reality technology for molecular geometry. *Educational Research and Reviews*, 10(20), 2745–2757.
- Sausan, I., Saputro, S., & Indriyanti, N. Y. (2018). Chemistry for Beginners: What Makes Good and Bad Impression. *Advances in Intelligent Systems Research*, 157(Miscic), 42–45.
- Sears, D. O., Freedman, J. L., Peplau, L. A. 1992. Psikologi Sosial Jilid 1. Penerbit Erlangga: Jakarta.
- Sezer, A., İnel, Y., Seçkin, A. Ç., & Uluçmar, U. (2017). The Relationship between Attention Levels and Class Participation of First-Year Students in Classroom Teaching Departments. *International Journal of Instruction*, 10(2), 55–68.
- Sirhan, G. (2007). Learning Difficulties in Chemistry: An Overview. *Journal of Turkish Science Education*, 4(2), 2–20.
- Smith, E. R., Mackie, D. M., & Claypool, H. M. (2015). *Social Psychology* (Fourth Edi). New York: Psychology Press.
- Steinert, Y., & Snell, L. S. (1999). Interactive lecturing: strategies for increasing participation in large group presentations. *Medical Teacher*, 21(1), 37–42.
- Stigliani, I. (2012). Organizing Thoughts and Connecting Brains: Material Practices and the Transition From Individual to Group-Level Prospective Sensemaking The Formation of Organizational Reputation View project Symbolic value creation View project. *Article in The Academy of Management Journal*. <https://doi.org/10.5465/amj.2010.0890>
- Subana, M., Sudrajat. 2011. *Dasar – Dasar Penelitian Ilmiah*. Bandung: Pustaka Setia.

- Sugiharti, G. (2018). Improve Outcomes Study Subject Chemistry Teaching and Learning Strategies through independent study with the help of computer-based media. *Journal of Physics: Conference Series*, 970(1), 1–5.
- Sugiyono. 2009. *Metode Penelitian Kuantitatif, Kualitatif dan R&D*. Bandung: Alfabeta.
- Sumintono, B., & Widhiarso, W. (2014). *Aplikasi Model RASCH untuk Penelitian Ilmu-Ilmu Sosial*. Cimahi: Trim Komunikata.
- Suyatna, A., Maulina, H., Rakhmawati, I., & Khasanah, R. A. N. (2018). Electronic Versus Printed Book: Comparison Study on the Effectivity of Senior High School Physics Book. *Jurnal Pendidikan IPA Indonesia*, 7(4), 391–398.
- Szabo, F. K., & Hoffman, G. E. (2012). NIH Public Access, 37(1), 62–70.
- Tasker, R., & Dalton, R. (2006). Visualisation of the Molecular world using Animations. *Chemistry Education Research and Practice*, 2(7), 141–149.
- Timilehin, E. (2012). School facilities as correlates of student's achievement in the affective and psychomotor domains of learning. *European Scientific Journal*, 8(6), 208–215.
- Velázquez-Marcano, A., Williamson, V. M., Ashkenazi, G., Tasker, R., & Williamson, K. C. (2004). The Use of Video Demonstrations and Particulate Animation in General Chemistry. *Journal of Science Education and Technology*, 13(3), 315–323.
- Weisbuch, M., Slepian, M. L., Clarke, A., Ambady, N., & Veenstra-VanderWeele, J. (2010). Behavioral stability across time and situations: Nonverbal versus verbal consistency. *Journal of Nonverbal Behavior*, 34(1), 43–56.
- Williamson, V. M., & Abraham, M. R. (1995). The effects of computer animation on the particulate mental models of college chemistry students. *Journal of Research in Science Teaching*, 32(5), 521–534.
- Woldeamanuel, M. M., Atagana, H., & Engida, T. (2014). What makes chemistry difficult? *African Journal of Chemical Education*, 4(2), 31–43.
- Wu, C., & Foos, J. (2010). Making Chemistry Fun to Learn. *Lit Inf Comput Educ J*, 1(1), 3–7.
- Yakmaci-Guzel, B., & Adadan, E. (2013). Use of multiple representations in developing preservice chemistry teachers' understanding of the structure of matter. *International Journal of Environmental and Science Education*, 8(1), 109–130.