

## DAFTAR PUSTAKA

- Alias, N., & Siraj, S. (2012). Design and development of physics module based on learning style and appropriate technology by employing isman instruction design model. *The Turkish Online Journal of Educational Technology*, volume 11 issue 4. Retrieved from <http://www.tojet.net/articles/v11i4/1148.pdf>
- Arends, R.I. (2013). *Belajar untuk mengajar learning to teach* edisi 9 buku 2. Jakarta: Salemba Humanika. (Edisi asli diterbitkan tahun 2012 oleh Mc Grow-Hill New york)
- Azizah. (2012). *Penerapan modul ipa terpadu menggunakan pembelajaran model terpadu (integreted model) untuk meningkatkan hasil belajar ipa siswa kelas VII A SMP Negeri 7 Malang Tahun Ajaran 2009/2010* Malang: Skripsi Universitas Negeri Malang.
- Balanay, C.A.S. (2013). Assesment on students' science process skills:A student-centered approach. *International Journal of Biology Education*. Vol.3 (1), pp. 24-44
- Barak, M., Watted, A., & Haick, H. (2016). Motivation to learn in massive open online courses: examining aspects of language and social engagement. *Journal of Elsevier Science Direct, Technion Israel Institute of Technology*. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0360131515300828>
- Belanger, R. M., Grabowski, G. M., Joshi, G. S., & Tuttle, J. E. (2018). The development of an inquiry-based laboratory modul exploring the pathophysiology of diabetes. *Journal of College Biology Teaching, University of Detroit Mercy volume 44 no 2 page 3-9*. Retrieved from <https://files.eric.ed.gov/fulltext/EJ1205080.pdf>
- Booker, G. D. (2007). *Effective teaching methods: research based practice*. Australia: Pearson Educational
- Borg, W.R. & Gall, M.D. (1983). *Educational Research*, Longman, New York London
- Bundu, P. (2006). *Penilaian keterampilan proses dan sikap ilmiah dalam pembelajaran sains-SD*. Jakarta : Depdiknas.
- Carin, A. A. & Sund, R. B. (1980). *Teaching modern science*. Ohio: A Bell & Howell Company.

- Carin, A. A. dan Sund, R. B. (1989). *Teaching science through discovery*. Indiana: Merrill Publishing Company
- Chiappetta, E. L. (1997). *Inquiry-based science - People Server at UNCW*. Houston: University of Houston
- Chiappeta, E. & Koballa, T. (2010). *Science intruction in the middle and secondary school*. New York: Macmillan Publishing Company.
- Chodijah, S. (2012). *Pengembangan perangkat pembelajaran fisika menggunakan model guided inquiry yang dilengkapi penilaian portofolio pada materi gerak melingkar*. Padang: Jurnal Penelitian Pembelajaran Fisika Vol 1 hal 1-19. Retrieved from <http://ejurnal.unp.ac.id> pada tanggal 6 April 2013
- Collette, A. T. & Chiapetta, E. J. (1994). *Science instruction in the middle and secondary schools*. New York: macmillan Publishing Company.
- Dahblberg, C. L., Wiggins, B. L., Lee, S. R., Leaf, D. S., Lily, L. S., Jordt, H., & Johnson, T. J. (2019). A short, course-based research module provides metacognitive benefits in the form of more sophisticated problem solving. *Journal of College Science Teaching*, 48(4). Retrieved from [https://s3.amazonaws.com/nstacontent/jcst1904\\_22.pdf?AWSAccessKeyId=AKIAIMRSQAV7P6X4QIKQ&Expires=1554851031&Signature=9O9IL9S364HGDYq1Hn0Qtx5UOiI%3d](https://s3.amazonaws.com/nstacontent/jcst1904_22.pdf?AWSAccessKeyId=AKIAIMRSQAV7P6X4QIKQ&Expires=1554851031&Signature=9O9IL9S364HGDYq1Hn0Qtx5UOiI%3d)
- Departemen Pendidikan Nasional. (2008). *Teknik penyusunan modul*. Jakarta. Retrieved from <http://DPSMKejuruan-2008-download.smkn1-majalengka.sch.id> pada tanggal 4 April 2013
- Depdikbud. (1997). *Kurikulum pendidikan dasar garis-garis besar program pengajaran sekolah lanjutan tingkat pertama*. Jakarta: Rieneka Cipta.
- Depdiknas. (2006). *Kurikulum tingkat satuan pendidikan: Standar kompetensi dan kompetensi dasar mata pelajaran IPA*. Jakarta: Balitbang Depdiknas.
- Dewi, N. L. dkk. (2013). *Pengaruh model pembelajaran inkuiri terbimbing terhadap sikap ilmiah dan hasil belajar ipa*. Bali: Jurnal Penelitian Pascasarjana Undiksha Vol 3 (2013). Retrieved from <http://pasca.undiksha.ac.id> pada tanggal 29 mei 2013.
- Dimiyati, M. (1994). *Belajar dan pembelajaran*. Jakarta : Direktorat Jendral Pendidikan Tinggi Departemen Pendidikan dan Kebudayaan
- Edwards, E. (2016). Six rules to designing elearning for maximum motivation. *Allen Interactions learning for a change*. Retrieved from

[http://content.alleninteractions.com/hubfs/UPDATED\\_6\\_Rules\\_Designing\\_eLearning\\_Maximum\\_Motivation\\_eBook - Allen Interactions 1](http://content.alleninteractions.com/hubfs/UPDATED_6_Rules_Designing_eLearning_Maximum_Motivation_eBook_-_Allen_Interactions_1)

- Elliot, S. N., Kratochwill, T. R., Cook, J. L., et al. (2000). *Educational psychology: effective teaching, effective learning. (3th ed)*. Boston: Mc Graw Hill.
- Endah, Y. D., dkk. (2012). *Pembelajaran Kimia Menggunakan Inkuiri Terbimbing dengan Media Modul dan E-Learning ditinjau dari Kemampuan Pemahaman Membaca dan Kemampuan Berfikir Abstrak*. Semarang: Jurnal Inkuiri Vol 1. No 2. Hal 112-120. Diakses dari <http://jurnal.pasca.uns.ac.id>. pada tanggal 10 April 201
- Ergul, R., Simsekli, Y., Calis, S., Ozdilek, Z., Gocmencelebi, S., & Sanli, M. (2011). The effect of inquiry-based science teaching on elementary school students' science process skills and science attitudes. *Bulgarian Journal of Science and Education Policy (BJSEP)*, vol 5 (1). Retrieved from <https://pdfs.semanticscholar.org/8207/5cc639d41a8ea17b6ee5c6b7e7ecba90456f.pdf>
- Fogarty, R. (1991). *The Mindful School: how to integrate the curricula*. Palatine, Illinois: IRI/Skylight Publishing, Inc.
- Gormally, C., Brickman, P., Hallar, B., & Armstrong, N. (2009). Effects of inquiry-based learning on students' science literacy skills and confidence. *International Journal for the Scholarship of Teaching and Learning*. Vol. 3, No. 2: 1-22.
- Hake, R. R. (1998). *Interactive-engagement versus traditional methods: A six-thousand-student survey of mechanics test data for introductory physics courses*. American association of physics teachers. Volume 66, number 1. 64-74. Januari 1998
- Hamalik, O. (2011). *Proses Belajar Mengajar*. Jakarta: Bumi Aksara.
- Hanim, F., Suyanti, R. D., & Harahap, F. (2017). The Effect of Students' Worksheet Based on Skill of Science and Motivation Process toward Learning Outcomes at Grade 4 SD Negeri 164330 Tebing Tinggi. *IOSR Journal of Reasearch & Method in Education*. Vol. 7, Issue 5 Ver. VII. No. 9: 57-61. DOI: 10.9790/7388-0705075761v
- Haris, S., Utaya, S., & Soetjipto, B.E. (2016). The Enhancement of Process Skills and Cognitive Learning Outcomes of Science in Elementary School Through Inquiry Learning. *IOSR Journal of Reasearch and Method in Education*. Vol. 6, Issue 3 Ver. III. No. 6: 67-71. DOI: 10.9790/7388-0603036771

- Hermawati, N. W. M. (2012). *Pengaruh model pembelajaran inkuiri terhadap penguasaan konsep biologi dan sikap ilmiah siswa sma ditinjau dari minat belajar siswa*. Bali: Jurnal Penelitian Pascasarjana Undiksha Vol 2, No 2 (2012) . retrieved from <http://pasca.undiksha.ac.id>. pada tanggal 29 mei 2013.
- Hidayat, R. (2009). *Kecukupan pendekatan inkuiri dalam rencana pelaksanaan pembelajaran IPA pada KTSP SMP di kabupaten Bima*. Tesis, tidak diterbitkan, Pascasarjana UNY, Yogyakarta.
- Holmes, N. (2014). Student perceptions of their learning and engagement in response to the use of a continuous e-assesment in an undergraduate module. *Assessment and Evaluation in Higher Education*, 40(1), 1-14 from *Sheffield Hallam University Research Archive (SHURA)*. Retrieved from <http://shura.shu.ac.uk/11581/>
- Joyce, B., Wiel, M. & Showers, B. (2004). *Models of teaching.8th ed*. Boston: Allyn and Bacon.
- Klumper, C., Neunzehn, J., Wegmann, U., Kruppke, B., Joos, U., & Wiesmann, H. P. (2016). Development and evaluation of an internet-based blended-learning module in biomedicine for university applicants-education as a challenge for the future. *Journal of Head and Medicine*, DOI 10.1186/s13005-016-0112-2. Retrieved from <https://head-face-med.biomedcentral.com/articles/10.1186/s13005-016-0112-2>
- Kuhlthau, C. C., Maniotes, L. K. & Caspari A. K. (2007). *Guided inquiry learning in the 21st century*. New Jersey: Libraries Unlimited
- Kurniati & Deana, W. (2011). *Pengembangan Pembelajaran Inkuiri Terbimbing di SMA/MA Melalui Penyusunan Modul Praktikum Isolasi dan Identifikasi Senyawa Dalam Daun Tanaman Mint (Mentha cordifolia opiz)*. Bandung: Prosiding Simposium Nasional Inovasi Pembelajaran dan Sains 22-23 Juni 2011. Retrieved from <http://portal.fi.itb.ac.id>.
- Lewellyn, D. (2011). *Differentiated science inquiry*. California: Corwin SAGE Company.
- Libao, N. J. P., Sagun, J. J. B., Tamangan, E. A., Pattalitan, A. P., Duppa, M. E. D., & Bautista, R. G. (2016). Science learning motivation as correlate of students'academic performance. *Journal of Technology and Science Education of Quirino State University Philippines*, 6(3). Retrieved from <http://www.jotse.org/index.php/jotse/article/view/231/228>

- Lind, K. K. (2005). *Exploring science in early childhood education: A developmental approach* (4<sup>th</sup> Ed.). Clifton Park, NY: Thomson Delmar Learning.
- Mardapi, D. (2008). *Teknik penyusunan instrumen tes dan non tes*. Yogyakarta: Mitra Cendikia Press
- Martin, R., Sexton, C., Franklin, T., Gerlovich, J., & McElroy, D. (2009). *Teaching science for all children: an inquiry approach* (5<sup>th</sup> Ed.). Boston: Pearson.
- Middleton, J. A. (2004). A study of intrinsic motivation in the mathematics classroom: a personal constructs approach. *Journal for Research in Mathematics Education* 26(3). Retrieved from <https://cft.vanderbilt.edu/guides-sub-pages/motivating-students/>
- Moore, K. D. (2009). *Effective instructional strategies: from theory to practice* (2<sup>nd</sup> ed.). California: SAGE Publications, Inc.
- Natawidjaja, R. (1979). *Psikologi Pendidikan*. Jakarta : Arief Jaya.
- NSTA. (2009). *The biology teacher's handbook* (4<sup>th</sup> ed.). Virginia: National Science Teachers Association.
- Nugraheni, F. (2009). Hubungan motivasi belajar terhadap hasil belajar mahasiswa. *Jurnal Fakultas Ekonomi Universitas Muria Kudus*. Retrieved from [http://eprints.umk.ac.id/144/1/HUBUNGAN\\_MOTIVASI\\_BELAJAR.pdf](http://eprints.umk.ac.id/144/1/HUBUNGAN_MOTIVASI_BELAJAR.pdf)
- OECD. (2012). *PISA 2012 Assessment and Analytical Framework Mathematics, reading, Science, problem Solving and Financial Literacy*. e-book\_final.pdf pada tanggal 4 April 2013
- Orlich, D. C., Robert, J., Callahan, R. C., Trevisa, M. S., Brown, A. H. (2010). *Teaching strategies: a guide to effective instruction* (9<sup>th</sup> ed.). Massachusetts: Wadsworth.
- Ormrod J.E. (2003). *Educational psychology developing learners* (4<sup>th</sup> ed). New Jersey: Merrill Prentice Hall.
- Potvin, P., & Hasni, A. (2014). Interest, motivation and attitude towards science and technology at k-12 levels: a systematic review of 12 years of educational research. *Journal of Studies in Science Education* volume 50-Issue 1. Retrieved from

<https://www.tandfonline.com/doi/full/10.1080/03057267.2014.881626?src=recsys>

- Prasodjo, B.dkk. (2009). *Physics for junior high school*. Jakarta: Yudhistira
- Purwanto, N. (2003). *Psikologi pendidikan*. Bandung: PT Remaja Rosda Karya Offset.
- Rezba, R. J., Sparague, C. S., Fiel, R. L., Funk, H. J., Okey, J. R., and Jaus, H. H. (1995). *Learning and assessing science process skills 3rd ed*. Iowa: Kendall Hunt Publishing Company.
- Rezba, R. J., Sparague, C., Mc Donnough, J. T., dan Matkins, J. J. (2007). *Learning and assessing science process skills. Fifth edition*. Iwoa: Rendal/Hunt publishing company.
- Russell, D. James. (1974). *Modular Instruction*. USA: Burgess Publishing Company
- Sanjaya, W. (2009). *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*. Jakarta: Kencana Prenada Media Group
- Sardiman. (2010). *Interaksi dan motivasi belajar mengajar*. Jakarta: Raja Grafindo Perkasa.
- Sari, D. P. & Surya, E. (2017). Development the module of mathematics statistics 1 by using the model of dick and carey design. *International Journal of Sciences: Basic and Applied Research (IJSBAR) volume 34, no 1, pp 237-246*. Retrieved from <http://gssrr.org/index.php?journal=JournalOfBasicAndApplied&page=article&op=view&path%5B%5D=7493&path%5B%5D=3525>
- Schunk, D. H., Pintrich, P. R., & Meece, J. L. (2010). *Motivation in education (third edition)*, London: Pearson Education LTD.
- Schunk, D. H. (2012). *Learning theories: an educational perspective (6<sup>th</sup> ed.)*. Massachusetts: Pearson Education, Inc.
- Septiana, A. (2012). *Penerapan model pembelajaran inkuiri training untuk meningkatkan kemampuan berfikir kritis dan ketrampilan proses sains siswa Kelas XI IPA 6 SMA N 3 Malang*. Malang: Skripsi Universitas Negeri Malang
- Sen, C. & Vekli, G. S. (2016). The Impact of Inquiry Based Instruction on Science Process Skills and Self-efficacy Perceptions of Pre-service Science Teachers at a University Level Biology Laboratory. *Universal Journal of Educational Research 4(3), Department of Elementary Science*

Education, Bozok University, Turkey. Retrieved from <https://files.eric.ed.gov/fulltext/EJ1092341.pdf>

- Seyhan, H. G. (2015). The effects of problem solving applications on the development of science process skills, logical thinking skills, and perception on problem solving ability in the science laboratory. *Journal of Asia-Pacific Forum on Science Learning and Teaching*, volume 16, issue 2, article 8, p 1. Retrieved from [http://www.eduhk.hk/apfslt/download/v16\\_issue2\\_files/seghan.pdf](http://www.eduhk.hk/apfslt/download/v16_issue2_files/seghan.pdf)
- Silvestrov, P & Bessonov, O. (2018). Development of visualization module for aerogasdynamical computations. *Journal of Physics: Conf. Series Volume 1009 (2018) 012035 IOP Publishing Ltd*. Retrieved from <https://iopscience.iop.org/article/10.1088/1742-6596/1009/1/012035/meta>
- Subali, B dan Suyata, P. (2012). *Pengembangan item tes konvergen dan divergen dan penyelidikan validitasnya secara empiris*. Yogyakarta: Diandra
- Sudjana, N. (2010). *Dasar-dasar proses belajar mengajar*. Bandung: Sinar Baru Algensindo.
- Sugiyono. (2010). *Metode penelitian pendidikan*. Bandung: Alfabeta.
- Sukardjo. (2012). Optimalisasi pendidikan nilai/ karakter dalam pendidikan sains masa depan. Makalah disajikan dalam Seminar Nasional Pendidikan Sains, di Universitas Negeri Yogyakarta
- Suma, K. (2018). Development of physics module base on activity and conceptual change text to reduce students misconception of electricity. *Seminar Nasional Riset Inovatif ke-6, Jurusan Pendidikan Fisika Universitas Pendidikan Ganesha*. Retrieved from <https://lppm.undiksha.ac.id/ocs/index.php/senari/senari2018/paper/view/122>
- Susilo, A. B., dkk. (2012). *Model pembelajaran ipa berbasis masalah untuk meningkatkan motivasi belajar dan berfikir kritis siswa smp*. Semarang: Unes Sains Education Jurnal. Retrieved from [www.jurnal.unes.ac.id](http://www.jurnal.unes.ac.id) pada tanggal 4 April 2013.
- Suslu, S. (2016). Motivation of ESL teachers. *Journal of TESL 12(1)*. Retrieved from <http://iteslj.org/Articles/Suslu-TeacherMotivation>
- Sutrisno, J. (2008). *Pengaruh metode inkuiri dalam belajar sains terhadap motivasi belajar siswa*. Retrieved from <http://erlangga.co.id> pada tanggal 6 April 2013

- Suyitno, A. (1997). *Pengukuran skala sikap seseorang terhadap mata pelajaran matematika*. Semarang: FMIPA IKIP Semarang.
- Tim Penyusun Kamus Pusat Bahasa. (2008). *Kamus Besar Bahasa Indonesia. Format Daring Edisi Ketiga*. Jakarta: Balai Pustaka
- Trianto. (2010). *Mendesain Model Pembelajaran Inovatif-Progresif*. Jakarta: Kencana Prenada Media Group
- Trowbridge, L. W., Bybee, R. W., & Powell, J. C. (2000). *Teaching secondary school science: strategies for developing scientific literacy*. New Jersey: Prentice Hall, Inc
- Ujang, A., Alias, N., Jamaludin, K. A., Noh, S. I. S. (2018). The effectiveness of health education learning module based on webquest among special education instructors. *Journal of ICSAR volume 2 no 1*. Retrieved from <http://journal2.um.ac.id/index.php/icsar/article/view/2321>
- Uno, H. B. (2008). *Teori motivasi dan pengukurannya*. Jakarta: Bumi Aksara.
- Vartiainen, J. L. (2016). Science process skills in small children's science. *International Journal of Math, Science and Technology Education*. Retrieved from <https://helda.helsinki.fi/bitstream/handle/10138/175535/document.pdf?sequence=1>
- Vembrianto. (1975). *Pengantar Pengajaran Modul*. Yogyakarta: Yayasan Pendidikan Paramita
- Warner, Anna J. and Myers, Brian E. (2011). *What Is Inquiry-Based Instruction?*. Florida: series of the Department of Agricultural Education and Communication, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Visit the EDIS website at <http://edis.ifas.ufl.edu>.
- Wenning, C. J. (2007). Assessing inquiry skills as a component of scientific literacy. *Journal of Physic Teacher Education*. Vol.4 (2), pp. 21-24
- Widiyanto, K. (2011). *Pengaruh strategi pembelajaran berbasis masalah yang dibelajarkan dengan metode inkuiri dan proyek terhadap kemampuan berpikir kritis, sikap ilmiah dan hasil belajar siswa pada SMP Negeri 2 Lubuk Pakam*. Medan: Tesis Pendidikan Biologi UNIMED
- Wulandari, R. (2012). *Pengaruh Pembelajaran Berbasis Inkuiri Dalam Kegiatan Laboratorium Terhadap Motivasi Belajar dan Keterampilan Berfikir Peserta Didik SMP*. Yogyakarta: Tesis Pascasarjana UNY



Yildirim, M., Calik, M., & Ozmen, H. (2016). A meta-synthesis of Turkish studies in science process skills. *International Journal of Environmental & Science Education* 11(14). Retrieved from <https://eric.ed.gov/?id=EJ1115726>

Zeidan, A. H., & Jayosi, M. R. (2015). Science process skill and attitudes toward science among Palestinian secondary school students. *World Journal of Education* 5(1) p13-24. Retrieved from <https://eric.ed.gov/?id=EJ1158460>