

DAFTAR PUSTAKA

- Amsyari, F. (1986). *Prinsip-prinsip pencemaran lingkungan hidup: studi tentang banjir, karakteristik desa dan kota*. Jakarta: Ghalia Indonesia.
- Akcay, B. (2009). Problem based learning in science education. *Journal of Turkish Science Education*, 6(9). Retrieved from <https://www.pegem.net/dolsyalar/dokuman/48116-20090429114931-04problem-based-learning-in-science-education.pdf>
- Asyhar, R. (2012). *Kreatif mengembangkan media pembelajaran*. Jakarta: Referensi Jakarta
- Ahluwalia, G., Gupta, D., Aggarwal, D. (2011). The use of blogs in english language learning: a study of student perceptions. *Colombia Educational Research Journal*. Retrieved from <https://revistas.unal.edu.co/index.php/profile/article/view/25629/36843>
- Agustiningsih. (2012). Peningkatan kecakapan berpikir melalui implementasi problem based learning pada pembelajaran IPA. *Jurnal Pendidikan Sekolah Dasar*. Retrieved from <http://repository.unej.ac.id/bitstream/handle/123456789/1292/ARTIKEL%20PROSIDING%20SEMNAS.pdf>
- Arianti, Y. M., & Yogisa, K. (2012). Aplikasi e-learning berbasis web dengan menggunakan atutor. *UG Jurnal*, 6(1). Retrieved from <http://ejournal.gunadarma.ac.id/index.php/ugjournal/article/view/820/732>
- Atmojo, S. (2015). Learning which oriented on local wisdom to grow a positive appreciation of batik jumputan (ikat celup method). *Indonesian Journal of Science Education*, 4(1). Retrieved from <https://journal.unnes.ac.id/nju/index.php/jpii/article/view/3501/3339>
- Aulia & Azizah. (2015). Karakteristik, Perilaku, Fungsi Paru Pekerja, dan Kadar PM_{2,5} di Industri Rumah Tangga Cecek di Kabupaten Sidoarjo. *Jurnal Kesehatan Lingkungan*, 8(1). Retrieved from <https://media.neliti.com/media/publications/105003-ID-none.pdf>
- Aditiawati, P., Astuti, D. I., Suantika, G., Togar., & Simatupang. (2016). Pengembangan potensi lokal di desa panawangan sebagai model desa vokasi dalam pemberdayaan masyarakat dan peningkatan ketahanan pangan nasional. *Jurnal Sositologi*, 15(1). Retrieved from <http://journals.itb.ac.id/index.php/sostek/article/view/2041>
- Anafidah, A., Sarwanto, & Masykuri, M. (2017). Pengembangan modul fisika berbasis CTL (Contextual Teaching and Learning) pada materi dinamika partikel untuk meningkatkan keterampilan berpikir kritis siswa kelas X SMAN 1 Ngawi. *Jurnal Inkuiri*, 6(3). Retrieved from <https://jurnal.uns.ac.id/inkuiri/article/view/17834/14232>

- Bharata, J. W., & Kalam, A. (2008). *Blog wordpress*. Jakarta: PT Elex Media Komputindo. Retrieved from <https://books.google.co.id/books?id=sYtKDwAAQBAJ&pg=PA2&dq=cara+membuat+blog+dengan+wordpress.com&hl=id&sa=X&ved=0ahUKEwiWiaXxpVXaAhVFtY8KHXFuCMUQ6AEIRjAF#v=onepage&q=cara%20membuat%20blog%20dengan%20wordpress.com&f=false>
- Bilgin, I., Senocak, E., & Sozbilir, M. (2009). The effect of problem based learning instruction on university students performance of conceptual and quantitative problems in gas concept. *Eurasia Journal of Mathematics Science & Technology Education*. Retrieved from <http://www.ejmste.com/>
- Bardofboston. (2011). Guidelines for exceptional web design, usability, and user experience. *Artikel*. Retrieved from <https://blog.hubspot.com/blog/tabid/6307/bid/30557/7-guidelines-for-exceptional-website-design-and-usability.aspx>
- Butterworth, J., & Thwaites, G. (2013). *Thinking skill: critical thinking and problem solving*. New York: Cambridge University Press. Retrieved from <https://www.gceguide.xyz/files/e-books/Cambridge-Thinking%20SkillsCritical%20Thinking%20and%20Problem%20Solving-second-edition.pdf>
- BSNP. (2014). Pedoman penilaian buku teks. *Artikel*. Retrieved from <http://bsnp-indonesia.org/2014/05/28/instrumen-penilaian-buku-teks-pelajaran-tahun-2014/>
- Bialik, M., & Fadel, C. (2015). *Skills for 21st century: what should student learn*. Switzerland: Center for Curriculum Redesign.
- Carin, A. A. & Sund, R. B. (1989). *Teaching science trough discovery*. Columbus: Merrill Publishing Company.
- Chiappetta, E. L., & Koballa, T. R. (2010). *Science instruction in the middle and secondary schools: developing fundamental knowledge and skills*, 7th Edition. Pearson Education, Inc.
- Creswell, J.W. (2012). *Educational research: planning, conducting and evaluating quantitative and qualitative reasearch*. Lincoln: University of Nebraska.
- Departemen Pendidikan Nasional. (2008). *Panduan pengembangan bahan ajar*. Jakarta: Direktorat Jenderal Manajemen Pendidikan Dasar dan Menengah.
- Direktorat Jendral Kependidikan. (2008). *Penulisan modul*. Jakarta: Direktorat Jenderal Peningkatan Mutu Pendidik dan Kependidikan.
- Drake, K., & Long, D. (2009). Rebecca's in the dark: a comparative study of problem based learning and direct instruction/experimental learning in two 4th grade classrooms. *Journal of Elementary Science Education*. Retrieved from <https://files.eric.ed.gov/fulltext/EJ849707.pdf>

- Dixon, T., & O'Hara, M. (2012). *Making practice based learning work: communication skills*. Northern Ireland: University of Ulster.
- Daryanto. (2013). *Menyusun modul: bahan ajar untuk persiapan guru dalam mengajar*. Yogyakarta: Gava Media
- Draghicescu, L. M., et.al. (2014). Application of problem based learning strategy in science lessons-examples of good practice. *Australian Journal of Teacher Education*. Retrieved from <https://ac.els-cdn.com/S1877042814049581/1-s2.0-S1877042814049581-main.pdf>
- Effendi, H. (2003). *Telaah kualitas air bagi pengelolaan sumber daya dan lingkungan perairan*. Yogyakarta: Penerbit Kanisius.
- Etherington, M. B. (2011). Investigative primary science: a problem-based learning approach. *Australian Journal of Teacher Education*. 36 (9). Retrieved from <https://files.eric.ed.gov/fulltext/EJ940863.pdf>
- Fitri, L. A., Kurniawan, E. S., & Ngazizah, N. (2013). Pengembangan modul fisika pada pokok bahasan listrik dinamis berbasis domain pengetahuan sains untuk mengoptimalkan minds on siswa SMA Negeri 2 Purworejo kelas X tahun pelajaran 2012/2013. *Jurnal Radiasi*. 3(1). Retrieved from <http://download.portalgaruda.org/article.php?article=97631&val=614>
- Fauzia, L.P., Hardian., & Sumekar, T. A. (2015). Hubungan antara paparan asap pembakaran lilin batik dengan fungsi paru pengrajin batik tulis. *Media Medika Muda*, 4(4). Retrieved from <https://ejournal3.undip.ac.id/index.php/medico/article/download/9984/9683>
- Fauzan, M., Gani, A., Syukri, M. (2017). Penerapan model problem based learning pada pembelajaran materi sistem tata surya untuk meningkatkan hasil belajar siswa. *Jurnal Pendidikan Sains Indonesia*, 5(1). Retrieved from <http://www.jurnal.unsyiah.ac.id/JPSI/article/download/8404/6797>
- Gangadhar, Z., S. (2014). Environmental impact assessment on soil pollution issue about human health. *International Research Journal of Environment Sciences*, 3(11). Retrieved from <http://www.isca.in/IJENS/Archieve/v3/ill/14.ISCA-IRJEvS-2014-203.pdf>
- Human Development Department. (2010). Indonesia skills report: trend in skills demand, gaps, and supply in indonesia. *Dokumen HDI East Asia and Pacific Region*. Retrieved from http://siteresources.worldbank.org/EASTASIAPACIFICEXT/Resources/226300-1279680449418/HigherEd_IndonesiaSkillReport.pdf
- Hastuti, E. (2011). Sifat kritis membangun keterampilan berkomunikasi. *Jurnal Universitas Gunadarma*, 5(11). Retrieved from <http://erni.staff.gunadarma.ac.id/Publications/files/>

- Hacicaferoglu, S. (2014). Survey on the communication skills that the college students of school of physical education and sport perceived from the teaching staff. *International Journal of Science Culture and Sport*, 2(1) Retrieved from http://www.iscsjournal.com/Makaleler/1814462729_3.sayi_ic-sayfalar_7hacicafer.pdf
- Hussey, T. 2014. *WordPress absolute beginner's guide*. United States of America: Que Publishing
- Helianthusonfri, J. (2015). Blog gratis dan praktis omset fantastis. Jakarta: PT Elex Media Komputindo. Retrieved from https://books.google.co.id/books?id=Zk9JDwAAQBAJ&printsec=frontcover&dq=langkah+membuat+blog+menggunakan+wordpress.com&hl=id&sa=X&ved=0ahUKEwi99N__nvXaAhWKqo8KHch8CwsQ6AEIMjAB#v=onepage&q=langkah%20membuat%20blog%20menggunakan%20wordpress.com&f=false
- Iksan, Z. A., et.al. (2012). Communication skills among university students. *Journal Social and Behavioral Science*. Retrieved from <https://www.sciencedirect.com/science/article/pii/S1877042812036889>
- Ibrohim, dkk. (2014). Pengembangan perangkat pembelajaran IPA-biologi berbasis discoveri-inkuiri dengan sumber belajar potensi lokal kabupaten pasuruan. *Jurnal Universitas Malang*. Retrieved from <https://media.neliti.com/media/publications/173920-ID-pengembangan-perangkat-pembelajaran-ipa.pdf>
- Isnaeni, A., Wulan, A.R., & Solihat, R. (2017). Do performance assessment has contribution to achieve students' communication skills. *International Journal of Science and Applied Science*, 2(1). Retrieved from <https://jurnal.uns.ac.id/ijsascs/article/view/16670/13452>
- Ilmiyah, R., Wasino, Utomo, U. 2019. The development of local wisdom-based contextual social science teaching materials with the theme of indahnya kebersamaan (the beauty of togetherness) for the fourth grade level of elementary school. *Journal of Primary Education*, 8 (3), pp. 296-297. Availabel: <https://journal.unnes.ac.id/sju/index.php/jpe/article/view/27622/12119>
- Jolly, J., & Jacob, C. (2012). A study of problem based learning approach for undergraduate students. *Journal CSS*, 8(15). Retrieved from <http://www.cssenet.org/journal/index.php/ass/article/>
- Johar, A., Risdianto, E., Fera, D. A., & Indiyati. (2014). Perancangan dan implementasi media pembelajaran berbasis web pada bidang studi bahasa inggris di kelas VII SMP Negeri 1 Kota Bengkulu dengan menggunakan PHP dan MYSQL. *Jurnal Rekursif*. 2(1). Retrieved from <http://download.portalgaruda.org/article.php?article=299325&val=7008&t>

itle=Perancangan%20dan%20Implementasi%20Media%20Pembelajaran%
20Berbasis%20Web%20Pada%20Bidang%20Studi%20Bahasa%20Inggris
%20di%20Kelas%20VII%20Smp%20Negeri%201%20Kota%20Bengkulu
%20Dengan%20Menggunakan%20PHP%20dan%20MYSQL

- Kristiyanti, M. (2011). Blog sebagai alternatif media pembelajaran. *Artikel Ilmiah Informatika*, 2(2). Retrieved from <http://www.unaki.ac.id/ejournal/index.php/majalah-ilmiah-informatika/article/download>
- Kusuman, A., Mukhidin., & Hasan, B. (2016). Pengembangan bahan ajar mata pelajaran dasar dan pengukuran listrik untuk sekolah menengah kejuruan. *Jurnal Pendidikan Teknologi dan Kejuruan*, 23 (1), 39.
- Kaur, R., Singh, G., & Singh, S. (2017). Effect of self-learning modules and constructivist approach on academic performance of secondary school students: A comparative study. *International Journal of Humanities and Social Science Research*. 3 (1). Retieved from <http://www.socialsciencejournal.in/download/252/3-1-13-308.pdf>
- Leary, S. 2010. *Beginning wordpress: make great websites the easy way*. New York: Springer Science Business Media
- Lisbijanto, H. (2013). *Batik*. Yogyakarta: Graha Ilmu
- Latif, V. N., Ristiawati., & Istiqomah, N. (2016). Profil potensi penyakit akibat kerja tahapan pembatikan. *Unnes Journal of Public Health*, 5(4). Retrieved from <https://journal.unnes.ac.id/sju/index.php/ujph/article/download/11282/7632>
- Lia, R. M., Udaibah, W., & Mulyatun. (2016). Pengembangan modul pembelajaran kimia berorientasi etnosains dengan mengangkat budaya batik pekalongan. *Unnes Science Education Journal*, 5(3). Retrieved from <https://journal.unnes.ac.id/sju/index.php/usej/article/download/13174/7243>
- McGuinness, C., Scullion, T., Bianchi, L., & Gallagher, C. (2000). Thinking skill and personal capabilities for key stages 1&2. *Journal Northern Ireland Curriculum*. Retrieved from http://www.nicurriculum.org.uk/docs/skills_and_capabilities/training/TSP-C-Guidance-KS12.pdf
- Mulyanto. (2007). *Ilmu lingkungan*. Yogyakarta: Graha Ilmu
- Muchtar, D. (2008). *Batik the cultural of beauty. ministry of trade of the republic of Indonesia*. Jakarta: Departemen Perdagangan Republik Indonesia.
- Musmar, A., & Rini, B. A. (2011). *Batik: warisan adiluhung nusantara*. Yogyakarta: ANDI

- Moerniwati, E. D. A. (2012). Studi batik tulis (kasus di perusahaan batik ismoyo dukuh butuh desa gedongan kecamatan plipuh kabupaten sragen). *Jurnal Pendidikan Seni Rupa UNS*. Retrieved from e-jurnal.fkip.uns.ac.id/index.php/senirupa/article/view/1211
- Maryanti, S., Zikra, & Nurfarhanah. 2013. Hubungan antara keterampilan komunikasi dengan aktivitas belajar siswa. *Jurnal Ilmu Pendidikan Universitas Negeri Padang*. Retrieved from <https://ejournal.unisba.ac.id/index.php/mediator/article>
- Murniati, T., & Muljadi. (2013). Pengolahan limbah batik cetak dengan menggunakan metode filtrasi-elektrolisis untuk menentukan efisiensi penurunan parameter COD, BOD, dan logam berat (Cr) setelah perlakuan fisika-kimia. *Jurnal Ekuilibrium*, 12(1). Retrieved from <https://jurnal.uns.ac.id/equilibrium/article/download/2176/1996>
- Munthe, E. L., Suradi., Surjanto, E., & Yunus, F. (2014). Dampak pajanan asap lilin batik (malam) terhadap fungsi paru dan asma kerja pada pekerja industri batik tradisional. *Jurnal Respirologi Indonesia*, 34(3). Retrieved from <http://jurnalrespirologi.org/wp-content/uploads/2015/05/JRI-2014-34-3-149-157.pdf>
- Marlina, R., Hardigaluh, B., & Yokhebed. (2015). Pengembangan modul pengetahuan lingkungan berbasis potensi lokal untuk menumbuhkan sikap peduli lingkungan mahasiswa Pendidikan Biologi. *Jurnal Pengajaran MIPA*. 20(1). Retrieved from <http://journal.fmipa.upi.edu/index.php/jpmipa/article/>.
- Murniati, T., Inayati., & Budiastuti, S. (2015). Pengolahan limbah cair industri batik dengan metode elektrolisis sebagai upaya penurunan tingkat konsentrasi logam berat di sungai jenes, laweyan, surakarta. *Jurnal Ekosains*. 7(1). Retrieved from jurnal.pasca.uns.ac.id › Beranda › Vol 7, No 1 (2015)
- Mangesa, R. T and Dirawan, G. D. (2016). Development of learning module work competence integrated character value of electricity in vocational high school. *International Journal of Applied Engineering Research*, 11(10). Retrieved from https://www.ripublication.com/ijaer16/ijaerv11n10_11.pdf
- Muftofa, Z., Susilo, H., & Muhdar, M. H. I. A. (2016). Penerapan model pembelajaran problem based learning melalui pendekatan kontekstual berbasis lesson study untuk meningkatkan kemampuan memecahkan masalah dan hasil belajar kognitif siswa SMA. *Jurnal Pendidikan Teori, Penelitian, dan Pengembangan*, 1(5). Retrieved from <http://journal.um.ac.id/index.php/jptpp/article/view/6298/2688>
- Muflikah, B., & Fahyudi, A. (2016). Inovasi pembelajaran bahasa inggris berbasis web blog. *Prosiding Temu Ilmiah Nasional Guru*. Retrieved from <http://repository.ut.ac.id/6520/1/TING2016ST2-05.pdf>

- Mulyanto, Masykuri, M., & Sarwanto. (2017). Pengembangan modul IPA terpadu SMP/MTs kelas VII dengan model discovery learning tema air limbah industri batik untuk meningkatkan keterampilan proses sains. *Jurnal Inkuiri*, 6(2). Retrieved from <https://jurnal.uns.ac.id/inkuiri/article/viewFile/17308/13850>
- Notoatmodjo, S. (2008). Kesehatan dan pembangunan sumber daya manusia. *Jurnal Kesehatan Masyarakat Nasional*, 2(5). Retrieved from <http://download.portalgaruda.org/article.php?article=269783&val=7113&title=Kesehatan%20dan%20Pembangunan%20Sumber%20Daya%20Manusia>
- Nurrohman, S. (2010). Situs pembelajaran tak berbayar menggunakan wordpress: inovasi media pembelajaran di era teknologi informasi. *Prosiding Seminar*. Retrieved from http://staffnew.uny.ac.id/upload/132309687/pengabdian/Makalah+Pelatihan+Situs+Pembelajaran_1.pdf
- Noel, L. (2014). Using blogs to create a constructivist learning environment. *Journal Social and Behaviour Science*, 174(1). Retrieved from https://ac.els-cdn.com/S1877042815006424/1s2.0S1877042815006424main.pdf?_tid=396634d3db9042c99ab1a5097d0708ce&acdnat=1524715712_bd43435d795510dd2e86f11dadadc79e
- Novana, T., Sajidan, Maridi. (2014). Pengembangan modul inkuiri terbimbing berbasis potensi lokal pada materi tumbuhan lumut dan tumbuhan paku. *Jurnal Inkuiri*, 3 (2), pp. 108-122. Retrieved from <http://jurnal.fkip.uns.ac.id/index.php/inkuiri/article/view/4634/3188>
- Nasution, T. (2015). Penerapan metode web based learning sebagai solusi pendidikan yang efektif dan efisien. *Jurnal Times*, 4(2). Retrieved from <http://ejournal.stmiktime.ac.id/index.php/jurnalTIMES/article/download/235/99>
- Nurtanto&Sofyan. (2015). Implementasi problem based learning untuk meningkatkan hasil belajar kognitif, psikomotor, dan afektif siswa. *Jurnal Pendidikan Vokasi*, Retrieved from <https://journal.uny.ac.id/index.php/jpv/article/view/6489/5587>
- Nopia, R., Julia, & Sujana, A. (2016). Pengaruh model problem based learning terhadap keterampilan berpikir kritis siswa sekolah dasar pada materi daur air. *Jurnal Pena Ilmiah*, 1(1). Retrieved from <http://ejournal.upi.edu/index.php/penailmiah/article/viewFile/2996/pdf>
- Ollie. (2010). *Trik membuat tampilan blog lebih menarik*. Jakarta: Mediakita. Retrieved from <https://books.google.co.id/books?id=BC7LDoXMZbEC&pg=PA25&dq=cara+membuat+blog+dengan+wordpress.com&hl=id&sa=X&ved=0ahUKE>

wiWiaXxpvXaAhVFtY8KHxFuCMUQ6AEIQTAE#v=onepage&q=cara
%20membuat%20blog%20dengan%20wordpress.com&f=false

- Optical Character Recognition. (2011). *Thinking and reasoning skill*. Cambridge: Cambridge Assessment Group
- Owa, F. W. (2014). Water pollution: sources, effect, control and management. *International Letters of Natural Science*, 3(6). Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.870.3567&rep=rep1&type=pdf>
- OECD. (2016). Skills matter: further result from the survey of adult skills. *Draft OECD*. Retrieved from <https://www.oecd.org/skills/piaac/Skills-Matter-Jakarta-Indonesia.pdf>
- PP RI No 82 Tahun 2001 tentang pengelolaan kualitas air dan pengendalian pencemaran air. Retrieved from <http://pelayanan.jakarta.go.id/download/regulasi/peraturan-pemerintah-nomor-82-tahun-2001-tentang-pengelolaan-kualitas-air-dan-pengendalian-pencemaran-air.pdf>
- Partnership For 21st Century Learning. (2009). *Draft P21 framework definitions*. Retrieved from [http://www.p21.org/storage/documents/docs/P21_Framework_Definitions New_Logo_2015.pdf](http://www.p21.org/storage/documents/docs/P21_Framework_Definitions_New_Logo_2015.pdf)
- Pamungkas, E. A. (2010). *Batik: mengenal batik dan cara mudah membuat Batik*. Yogyakarta: Gita Nagari
- Pacific Policy Research Center. (2010). 21st century skills for students and teachers. *Journal Kamehameha Schools Research & Evaluation Division*, 56(1). Retrieved from http://www.ksbe.edu/_assets/spi/pdfs/21_century_skills_full.pdf
- Parmono, K. (2013). Nilai kearifan lokal dalam batik tradisional kawung. *Jurnal Filsafat*. Retrieved from <https://jurnal.ugm.ac.id/artikel/viewFile>
- Purwoko, Y.P. (2013). *Standar penilaian blog pembelajaran*. Jakarta: Gramedia
- Partnership For 21st Century Learning. (2014). What we know about communication: part of the 4Cs research series. *Draft Partnership For 21st Century Learning*. Retrieved from [http://www.p21.org/storage/documents/docs/Research/P21_4Cs_Research Brief_Series_-_Communication.pdf](http://www.p21.org/storage/documents/docs/Research/P21_4Cs_Research_Brief_Series_-_Communication.pdf)
- Pistanty, M.A., Sunarno, W., & Maridi. (2015). Pengembangan modul IPA berbasis problem based learning untuk meningkatkan kemampuan memecahkan masalah pada materi polusi serta dampaknya pada manusia dan lingkungan siswa Kelas XI SMK Pancasila Purwodadi. *Jurnal Inkuiri*, 4(2). Retrieved from <https://digilib.uns.ac.id/dokumen/download/148999/MTQ4OTk5>

- Priyatmono, A. F. (2015). Pengembangan industri batik ramah lingkungan studi kasus kampoeng batik laweyan. *Simposium Nasional RAPI XIV*. Retrieved from <https://publikasiilmiah.ums.ac.id/bitstream/handle/11617/6578/A74.pdf?sequence=1&isAllowed=y>
- Pattiwael, A. S. (2016). Addressing 21st century communication skills: some emerging issues from eil pedagogy & intercultural communicative competence. *Indonesian Journal of English Education*, 3(2). Retrieved from <http://journal.uinjkt.ac.id/index.php/ijee/article/view/3164/pdf>
- Prihatin. (2016). Pengembangan modul IPA tema pemanasan global untuk meningkatkan kemandirian dan keterampilan berkomunikasi belajar. *Jurnal Pendidikan Matematika dan Sains*, 4(2). Retrieved from <https://journal.uny.ac.id/index.php/jpms/article/download/12945/pdf>
- Puspo, B. D. A., Sulistyani., & Budiyo. (2016). Identifikasi faktor resiko kesehatan lingkungan pada pekerja industri batik rumahan di kota semarang. *Jurnal Kesehatan Masyarakat*, 4(4). Retrieved from <https://ejournal3.undip.ac.id/index.php/jkm>
- Prajapati, R., Sharma, B., & Sharma, D. (2017). Significance of life skills education. *Journal Contemporary Issues in Education Research-First Quarter 2017*, 10(1). Retrieved from <https://files.eric.ed.gov/fulltext/EJ1126842.pdf>
- Roekel, D. V. (2011). *Preparing 21st century students for a global society*.USA: National Education Association. Retrieved from <http://www.nea.org/assets/docs/A-Guide-to-Four-Cs.pdf>
- Rahmayanti. (2015). Penggunaan media IT dalam pembelajaran. *Jurnal Ilmiah Circuit*, 1(1). Retrieved from <http://download.portalgaruda.org/article.php?article=359014&val=8241&title=Penggunaan%20Media%20IT%20Dalam%20Pembelajaran>
- Ristekdikti. (2017). *Panduan penyusunan perangkat pembelajaran dan bahan ajar*. Jakarta: Kementerian Riset Teknologi, dan Pendidikan Tinggi
- Supriyanto, A. 2007. Arsitektur dan teknik desain informasi pada web. *Jurnal Teknologi Informasi Dinamik*, 12 (1). Retrieved from www.unisbank.ac.id/ft1?article=view
- Schulz, B. (2008). The importance of soft skills: education beyond academic knowledge. *Journal of Language and Communication*, 6(8). Retrieved from <https://pdfs.semanticscholar.org/c1d3/>
- Salih, M. (2010). Developing thinking skills in malaysian science via an analogical task. *Journal of Science and Mathematic*, 33(1). Rtrieved from [http://www.recsam.edu.my/R&D_Journals/YEAR2010/june2010vol1/mariah\(110-128\).pdf](http://www.recsam.edu.my/R&D_Journals/YEAR2010/june2010vol1/mariah(110-128).pdf)

- Sasongko, D.P., & Tresna, W. P. (2010). Identifikasi unsur dan kadar logam berat pada limbah pewarna batik dengan metode analisis pengaktifan neutron. *Jurnal Ilmu Pengetahuan dan Teknologi*, 27(1). Retrieved from http://www.fisika.lipi.go.id/in/sites/default/files/makalah_04272010.pdf
- Sockalingam, N., & Schmidt, H., G. (2011). Characteristics of problems for problem-based learning: the students' perspective. *The Interdisciplinary Journal of Problem-Based Learning*, 5(1). Retrieved from <https://pdfs.semanticscholar.org/1271/>
- Sartono, A., Harlanu, M., & Suryanto, A. (2012). Efektivitas pemanfaatan free weblog sebagai classroom blogging berbasis web di jurusan teknik elektro untuk meningkatkan hasil belajar mahasiswa. *Jurnal Penelitian Pendidikan*, 29(2). Retrieved from <https://journal.unnes.ac.id/nju/index.php/JPP/article/viewFile/5656/4519>
- Setyowati, R., Parmin, & Widiyatmoko, A. (2013). Pengembangan modul IPA berkarakter peduli lingkungan tema polusi sebagai bahan ajar siswa SMK N 11 Semarang. *Unnes Science Education Journal*, 2(2). Retrieved from <https://journal.unnes.ac.id/sju/index.php/usej/article/download/2031/1846>
- Sadlo, G. (2014). Using problem based learning during student placements to embed theory in practice. *Journal The Higher Education Academy*, 2(1). Retrieved from <http://e-learning.coventry.ac.uk/ojs/index.php/pblh/article/>
- Sarah, S., & Maryono. (2014). Keefektivan pembelajaran berbasis potensi lokal dalam pembelajaran fisika SMA dalam meningkatkan living values siswa. *Jurnal Pendidikan Sains Universitas Muhammadiyah Semarang*, 2(1). Retrieved from <http://jurnal.unimus.ac.id/index.php/JPKIMIA/article/view/>
- Suprihatin, H. (2014). Kandungan organik limbah cair industri batik jetis sidoarjo dan alternatif pengolahannya. *Jurnal Pusat Penelitian Lingkungan Hidup Universitas Riau*, 14(1). Retrieved from <https://ejournal.unri.ac.id/index.php/>
- Sari, R., Suradi., & Yunus, F. (2014). Dampak pajanan zat pada proses pewarnaan pembuatan batik terhadap kelainan klinis pekerja industri batik. *Jurnal Respir Indo*, 34(2). Retrieved from jurnalrespirologi.org/wp-content/uploads/2015/02/JRI-2014-34-2-77-86.pdf
- Susilowati. (2015). *IPA dan pembelajarannya*. Yogyakarta: UNY Press.
- Sulaksono, A., dkk. (2015). Kajian beban pencemaran limbah cair industri kecil menengah (IKM) batik klaster trusmi kabupaten cirebon. *Jurnal Pengelolaan Sumber Daya Alam dan Lingkungan*, 5(1). Retrieved from journal.ipb.ac.id/index.php/jpsl/article/view/10189
- Smit, L. S. (2015). A better understanding of 21st century skills in mathematics education and a view on these skills in current practice. *Journal the*

- Mathematics Enthusiast* 5(1). Retrieved from https://dspace.library.uu.nl/bitstream/handle/1874/335464/Researchpaper_4220870_Lysa
- Safitri, B, R, A. (2016). Pengembangan media berbasis wordpress untuk meningkatkan prestasi belajar siswa. *Jurnal Ilmiah Pendidikan Fisika*, 4(1). Retrieved from <http://ojs.ikipmataram.ac.id/index.php/Lensa/article/download/478/444>
- Saluky. (2016). Pengembangan bahan ajar matematika berbasis web dengan menggunakan wordpress. *Jurnal Edukasi Matematika*, 5(1). Retrieved from <https://media.neliti.com/media/publications/69351-ID-pengembangan-bahan-ajar-matematika-berba.pdf>
- Sarkar, D., et. al. (2017). Management of increasing soil pollution in the ecosystem. *Advances in Reasearch*, 12(2). Retrieved from http://www.journalrepository.org/media/journals/AIR_31/2017/Oct/Sarkar1222017AIR36622.pdf
- Salonen, A., Hartikainen-Ahia, A., Hense, J., & Keinonen, T. (2017). Secondary school students' perceptions of working life skills in science-related careers. *International Journal of Science Education* 39(10). Retieved from <http://www.tandfonline.com/loi/tsed20>
- Setiyadi, M.W., Ismail, & Gani, H. M. 2017. Pengembangan modul pembelajaran biologi berbasis pendekatan saintifik untuk meningkatkan hasil belajar siswa. *Journal of Education Science and Technology*, 3(2). Retrieved from <https://media.neliti.com/media/publications/177118-ID-pengembangan-modul-pembelajaran-biologi.pdf>
- Trowbridge, L. W., & Byebee, W. (1996). *Becoming a secondary school science teacher*. USA: Merrill Publishing Company.
- Tillery, E., & Ross. (2007). *Integrated science*. New York: McGraw Hill Companies.
- Trilling, B., & Fadel, C. (2009). *21st century skills: learning for life in our times*. San Francisco: Jossey-Bass
- Tambunan, H. (2013). Pengembangan pembelajaran berbasis website dalam matakuliah pengaturan mesin listrik. *Jurnal Cakrawala Pendidikan*, 32(1). Retrieved from <https://media.neliti.com/media/publications/96170-ID-pengembangan-pembelajaran-berbas>
- UU NO 32 Tahun 2009 tentang perlindungan dan pengelolaan lingkungan hidup. Retrieved from http://jdih.menlh.go.id/pdf/ind/IND-PUU-1-2009-UU%20No.%2032%20Th%202009_Combine.pdf
- United Nations Economic Commission for Europe. (2013). Impacts of air pollution on human health, ecosystems and cultural heritage. *Journal Long-RangeTransboundary Air Pollution*, 14(2). Retrieved from

https://www.unece.org/fileadmin/DAM/env/documents/2013/air/wge/CEH_IMPACT_ENGLISH_single_page_website.pdf

- Wardhana, W. A. (2004). *Dampak pencemaran lingkungan*. Yogyakarta: Penerbit Andi
- Wulandari, A. (2011). *Batik nusantara: makna filosofis, cara pembuatan, dan industri batik*. Yogyakarta: ANDI
- Wisudawati, A. W., & Sulistyowati, E. (2014). *Metodologi pembelajaran IPA: disesuaikan dengan pembelajaran kurikulum 2013*. Jakarta: Bumi Aksara.
- Walton, J. (2014). Teachers as expert learners and fellow travelers a review of professional development practices for problem based learning. *Journal Issues in Teacher Education*, 22(2). Retrieved from <https://files.eric.ed.gov/fulltext/EJ1065195.pdf>
- Wijayanti, E. E. Y. (2014). Pelestarian motif batik batang-pekalongan untuk meningkatkan kesejahteraan masyarakat dalam kurun 5 tahun (2009-2014). *Jurnal Ilmiah Pendidikan Sejarah IKIP Veteran Semarang*, 2(1). Retrieved from e-journal.ikip-veteran.ac.id/index.php/dimensi/article/view/371.
- Weni, D. M., & Isnaini, G. (2016). Meningkatkan hasil belajar siswa dengan pengembangan media pembelajaran e-learning berbasis blog. *Jurnal Pendidikan Bisnis dan Manajemen*, 2(2). Retrieved from <http://journal2.um.ac.id/index.php/jpbm/article/download/1697/969>
- Wilsa, A. W., Susilowati, S. M. E., & Suwarsi, E. (2017). Problem based learning berbasis socio-scientific issue untuk mengembangkan kemampuan berpikir kritis dan komunikasi siswa. *Journal of Inovatif Science Education*, 6(1). Retrieved from <https://journal.unnes.ac.id/sju/index.php/jise/article/view/17072>
- Yeo&Tan. (2014). Redesign problem based learning in the knowledge creation paradigm for school science learning. *Springer Science Business Media Dordrech*, 42(5). Retrieved from <https://www.jstor.org/stable/pdf/43575256.pdf?refreqid>
- Yusefni, W., & Sriyati, S. (2016). Pembelajaran IPA terpadu menggunakan pendekatan scientific writing heuristic untuk meningkatkan kemampuan komunikasi tulisan siswa SMP. *Journal Center for Science Education*, 8(1). Retrieved from <http://journal.uinjkt.ac.id/index.php/edusains/>
- Yokhebed. Titin., & Wahyuni, E. S. (2016). Peningkatan life skill melalui pembelajaran berbasis keunggulan lokal life skill improvement through learning local benefits. *Proceeding Biology Education Conference*, Surakarta, 13(1), 455-460. Retrieved from <https://media.neliti.com/media/publications/>

Zaki, A., & SmitDev. (2008). *Optimasi blogging*. Jakarta: PT Elex Media Komputindo.

Zulkifli. (2014). *Pengelolaan limbah berkelanjutan*. Yogyakarta: Graha Ilmu