

**DAFTAR PUSTAKA**

- Abdjul, D. (2022). Penerapan Model Pembelajaran Discovery Learning Untuk Meningkatkan Hasil Belajar Biologi Pada Siswa Kelas X SMA Negeri 1 Buntulia. *Aksara: Jurnal Ilmu Pendidikan Nonformal*, 8(1), 343. <https://doi.org/10.37905/aksara.8.1.343-348.2022>
- Abhi Purwoko, A., Andayani, Y., Hadisaputra, S., Yulianti, L., Nudia Fitri, Z., & Pariza, D. (2021). Validitas Instrumen dalam Rangka Pengembangan Metode Pembelajaran Inovatif untuk Meningkatkan Minat Belajar Siswa. *Prosiding Saintek LPPM Universitas Mataram*, 3(0), 94–102.
- Alam, Z. B., Ikhtiono, G., & Kamalludin. (2019). Pengaruh Metode Active Learning terhadap Prestasi Belajar Akidah Akhlak pada Siswa Kelas VIII MTs Yatasi. *Annual Conference on Islamic Education and Social Sains (ACIEDSS 2019)*, 1(1), 1–12.
- Alberida, H., Lufri, Festiyed, & Barlian, E. (2018). Problem Solving Model for Science Learning. *IOP Conference Series: Materials Science and Engineering*, 335(1). <https://doi.org/10.1088/1757-899X/335/1/012084>
- Aldoobie, N. (2015). ADDIE Model. *American International Journal of Contemporary Research*, 5(6). [http://www.aijcrnet.com/journals/Vol\\_5\\_No\\_6\\_](http://www.aijcrnet.com/journals/Vol_5_No_6_)
- Alyusfitri, R., Sari, S. G., Jusar, I. R., & Pratiwi, N. (2023). Pengembangan E-Modul Berbasis Multimedia Interaktif Dengan Pendekatan Kontekstual Teaching and Learning Untuk Siswa Sekolah Dasar Pada Materi Bangun Ruang. *Jurnal Cendekia : Jurnal Pendidikan Matematika*, 7(1), 302–312. <https://doi.org/10.31004/cendekia.v7i1.1750>
- Amelia, S., & Sukma, E. (2021). Pengaruh Model Discovery Learning Terhadap Hasil Belajar Siswa Pada Pembelajaran Tematik Terpadu di Kelas V SDN 04 Cupak Kabupaten Solok. *Jurnal Pendidikan Tambusai*, 5, 4159–4165.
- Ameriza, I., & Jalinus, N. (2021). Pengembangan E-Modul pada Mata Pelajaran Simulasi dan Komunikasi Digital. *Jurnal Edutech Undiksha*, 9(2), 181. <https://doi.org/10.23887/jeu.v9i2.38571>
- Anam, K. (2017). *Pembelajaran Berbasis Inkuiri, Metode dan Aplikasi*. Yogyakarta: Pustaka Pelajar.
- Andini, S. A., & Hobri, S. (2017). Students' Activity in Problem-Based Learning (Pbl) Math Classroom Be Oriented Lesson Study for Learning Community (Lslc). *International Journal of Advanced Research*, 5(9), 1395–1400. <https://doi.org/10.21474/ijar01/5458>

- Araiza-Alba, P., Keane, T., Chen, W. S., & Kaufman, J. (2021). Immersive virtual reality as a tool to learn problem-solving skills. *Computers & Education*, 164.
- Ardan, A. S. (2016). The Development of Biology Teaching Material Based on the Local Wisdom of Timorese to Improve Students Knowledge and Attitude of Environment In Caring the Persevation of Environment. *International Journal of Higher Education*, 5(3), 190–200. <https://doi.org/10.5430/ijhe.v5n3p190>
- Arikunto, S. (2015). *Dasar-Dasar Evaluasi Pendidikan*. Jakarta: Bumi Aksara.
- Arsyad, A. (2013). *Media Pembelajaran*. Jakarta: Raja Grafindo Persada.
- Ba'ru, Y. (2016). Pengaruh Penerapan Model Pembelajaran Terhadap Hasil Belajar Matematika Ditinjau Dari Minat Siswa Kelas Vii Smp Negeri Di Kota Rantepao. *Jurnal Daya Matematis*, 4(1), 83–89.
- Bahtiar, B., Ibrahim, I., & Maimun, M. (2022). Profile of Student Problem Solving Skills Using Discovery Learning Model with Cognitive Conflict Approach. *Jurnal Penelitian Pendidikan IPA*, 8(3), 1340–1349. <https://doi.org/10.29303/jppipa.v8i3.1657>
- Bahtiyar, A., & Can, B. (2016). An investigation of problem-solving skills of pre-service science teachers. *Educational Research and Reviews*. <https://doi.org/10.5897/ERR2016.3054>
- Bao, T. Q., Khoa, C. T., Ngoc, N. T., Thu Ha, N. T., Hoan, V. Q., Quang, P. H., & Ha, C. V. (2019). Teaching and Learning about Magnetic field and Electromagnetic Induction Phenomena integrated Science, Technology, Engineering and Mathematics (STEM) Education in Vietnamese high schools. *Journal of Physics: Conference Series*, 1340(1). <https://doi.org/10.1088/1742-6596/1340/1/012031>
- Barrows, H. S., & Tamblyn, R. M. (1981). Problem-Based Learning: An Approach to Medical Education. *The American Journal of Occupational Therapy*, 35(8), 539–539. <https://doi.org/10.5014/ajot.35.8.539b>
- Barus, U., & Suratno. (2015). Pemanfaatn Candi Bahal Sebagai Media Pembelajaran Alam Terbuka Dalam Proses Belajar Mengajar. *Medan: Perdana Mitra Handalan*.
- Bezuidenhout, A. (2019). Analysing the Importance-Competence Gap of Distance Educators Analysing the Importance-Competence Gap of Distance Educators With the Increased Utilisation of Online Learning Strategies in a. *Internatonal Review of Research in Open and Distributed Learning*.

- Cahyani, E. R., Martini, & Purnomo, A. R. (2022). Analysis of the Creative Thinking Ability of Middle School Students Against the Concept of Environmental Pollution in terms of Gender Differences. *Pensa E-Journal: Science Education*, 10(1), 8–15.
- Cahyani, H., & Setyawati, R. W. (2016). Pentingnya Peningkatan Kemampuan Pemecahan Masalah Melalui PBL untuk Mempersiapkan Generasi Unggul Menghadapi MEA. *PRISMA, Prosiding Seminar Nasional Matematika*, 151–160.
- Cheng, S. C., She, H. C., & Huang, L. Y. (2018). The impact of problem-solving instruction on middle school students' physical science learning: Interplays of knowledge, reasoning, and problem solving. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(3), 731–743. <https://doi.org/10.12973/ejmste/80902>
- Cindikia, M., Achmadi, H. R., Prahani, B. K., & Mahtari, S. (2020). Profile of Students' Problem Solving Skills and the Implementation of Assisted Guided Inquiry Model in Senior High School. *Studies in Learning and Teaching*, 1(1), 52–62. <https://doi.org/10.46627/silet.v1i1.22>
- Daryanto, & Dwicahyono, A. (2014). *Pengembangan Perangkat Pembelajaran (Silabus, RPP, PHB, Bahan Ajar)*. Yogyakarta: Gava Media.
- Depdiknas. (2008a). *Peraturan Pemerintah RI No.19 Tahun 2005 tentang Standar Nasional Pendidikan*. Jakarta: Depdiknas.
- Depdiknas. (2008b). *Teknik Penyusunan Modul*. Jakarta: Depdiknas
- Dewey, J. (1966). Democracy and education (1916). *Jo Ann Boydston (Ed.). The Middle Works of John Dewey*, 9, 1899–1924.
- Dick, & Carey. (1996). *The Systematic Dessign of Instuction*. United Kingdom: Harper Collins Publishers.
- Djamahar, R., Ristanto, R. H., Erlin, E., & Fitriani, A. (2018). Improvement of metacognitive skills and students' reasoning ability through problem-based learning Improvement of metacognitive skills and students ' reasoning ability through problem-based learning. *Journal of Physics: Conference Series*.
- Dörner, D., & Funke, J. (2017). Complex problem solving: what it is and what it is not. *Frontiers in Psychology*, 8.
- Dostal, J. (2015). Theory of Problem Solving. *Procedia - Social and Behavioral Sciences*.

- Elisanti, E., Sajidan, S., & Prayitno, B. A. (2018). the Effectiveness of Inquiry Lesson-Based Immunity System Module To Empower the Students' Critical Thinking Skill. *Edusains*, 10(1), 97–112. <https://doi.org/10.15408/es.v10i1.7259>
- Emzir. (2012). *Metodologi Penelitian Kualitatif Analisis Data*. Jakarta: Raja Grafindo Persada.
- F, P. C., Nilam, Sari, Teguh, & Muhammad. (2019). Penggunaan Discovery Learning Terhadap Kemampuan Pemecahan Masalah Matematis. *Prosiding Pendidikan Matematika Universitas Negeri Medan*.
- Facione, P. A. (1989). *Critical Thinking: A Statement of Expert Consensus for Purposes of Educational Assessment and Instruction*. USA: Insight Assesment.
- Ghozali. (2016). *Aplikasi Analisis Multivariete Dengan Program IBM SPSS*. Semarang: Badan Penerbit Universitas Diponegoro.
- Graesser, A. C., Fiore, S. M., Greiff, S., Andrews-Todd, J., Foltz, P. W., & Hesse, F. W. (2018). Advancing the Science of Collaborative Problem Solving. *Psychological Science in the Public Interest*, 19(2), 59–92.
- Hafsah, N. R. J., Rohendi, D., & Purnawan. (2016). E-Modul Sebagai Media Dalam Penigkatan Kualitas Belajar. *Jurnal Teknik Mesin*, 3(1), 106. <https://doi.org/10.17509/jmee.v3i1.3200>
- Handarini. (2020). Pembelajaran Daring Sebagai Upaya Study From Home (SFH) Selama Pandemi Covid19. *Jurnal Pendidikan Administrasi Perkantoran (JPAP)*, 8(3).
- Hanum, L., Istikomah, D. A., & Jana, P. (2019). Perbandingan Keefektifan Model Pembelajaran Problem Based Learning (Pbl) Dan Discovery Learning (DI) Ditinjau Dari Kemampuan Pemecahan Masalah. *Eduma : Mathematics Education Learning and Teaching*, 8(1). <https://doi.org/10.24235/eduma.v8i1.3203>
- Harahap, H. S., & Dongoran, H. (2019). Pengaruh Model Pembelajaran Dan Self Efficacy Terhadap Kemampuan Pemecahan Masalah Siswa pada Materi Sistem Ekskresi. *Jurnal Pembelajaran dan Biologi Nukleus*, 5(1), 41–51. <https://doi.org/10.36987/jpbn.v5i1.1487>
- Harefa, N., & Purba, L. S. L. (2020). Problem solving skills improvement and the impact on students' learning outcomes: Learning based e-project. *Journal of Physics: Conference Series*, 1567(2). <https://doi.org/10.1088/1742-6596/1567/2/022038>

- Hendri, S., Kenedi, A. K., Anita, Y., Habibi, M., & Akmal, A. U. (2019). Validation of discovery learning-based to increase the ability of elementary students problem solving skills. *Journal of Physics: Conference Series*, 1318(1). <https://doi.org/10.1088/1742-6596/1318/1/012109>
- Hosnan, M. (2014). *Pendekatan Saintifik dan Konstektual dalam Pembelajaran abad 21: Kunci Sukses Implementasi Kurikulum 2013*. Bogor: Ghalia Indonesia.
- Ibrahim, M. (2019). JTAM (Jurnal Teori dan Aplikasi Matematika) LKS Himpunan: Sebuah Pengembangan Matematika Integrasi. *JTAM (Jurnal Teori Dan Aplikasi Matematika)*, 3(2), 162–167. <https://doi.org/10.31764/jtam.v3i2.1063>
- Illahi, M. T. (2012). *Pembelajaran Discovery Strategy & Mental Vocational Skill*. Sidoarjo: IKAPI Press.
- Ilma, S., & Wijarini, F. (2017). Developing of Environmental Education Textbook Based on The Rise of Illegal Logging. *Jurnal Pendidikan Biologi Indonesia*, 3(3), 194–201. <https://doi.org/10.22219/jpbi.v3i3.4540>
- Irwan, Z. D. (2017). *Prinsip-Prinsip Ekologi dan Organisasi Ekosistem, Komunitas dan Lingkungan*. Surabaya: Bumi Aksara.
- Ismail, I., Uyuni Taufiq, A., & Hasanah, U. (2020). PENGEMBANGAN KARTU KUARTET SEBAGAI MEDIA PEMBELAJARAN BIOLOGI. *Al Asma : Journal of Islamic Education*, 2(2), 236. <https://doi.org/10.24252/asma.v2i2.17084>
- Jafria, H., Asmarb, A., & Rifandic, R. (2023). Development of discovery model based learning devices to increase the problem-solving skills of grade X high school students. *AIP Conference Proceedings*, 2698(060043). <https://doi.org/10.1063/5.0122571>
- Jerome Bruner. (1977). *The Process of Education*. Cambridge: Harvard Univ. Press, 2–5. <https://doi.org/10.1017/CBO9781107415324.004>
- Juanda, A., Shidiq, A. S., & Nasrudin, D. (2021). Teacher learning management: Investigating biology teachers' tpack to conduct learning during the covid-19 outbreak. *Jurnal Pendidikan IPA Indonesia*, 10(1), 48–59. <https://doi.org/10.15294/jpii.v10i1.26499>
- Kalsum, U., Khalifah Mustami, M., & Ismail, W. (2018). Pengembangan Modul Pembelajaran Biologi Materi Ekosistem Berbasis Pendekatan Contextual Teaching And Learning (CTL). *Lentera Pendidikan : Jurnal Ilmu Tarbiyah Dan Keguruan*, 21(1), 97–107. <https://doi.org/10.24252/lp.2018.v21n1i9>

- Kamelia, L. (2015). Perkembangan Teknologi Augmented Reality Sebagai Media Pembelajaran Interaktif. *Jurnal Kajian Islam, Sains, dan Teknologi (ISTEK)*, IX(1).
- Karim, N. (2015). Kemampuan Berpikir Kritis Siswa dalam Pembelajaran Matematika dengan Menggunakan Model Jucama di Sekolah Menengah Pertama. *Jurnal Pendidikan Matematika*, 3(1).
- Kartawinata, K. (2014). *Diversitas Ekosistem Alami Indonesia*. Jakarta: LIPI Press.
- Kasmiana, Yusrizal, & Syukri, M. (2020). The application of guided discovery learning model to improve students concepts understanding. *Journal of Physics: Conference Series*, 1460(1). <https://doi.org/10.1088/1742-6596/1460/1/012122>
- Kelley, T. R., & Knowles, J. G. (2016). A Conceptual Framework for Integrated STEM Education. *International Journal of STEM Education*, 3(11). <https://doi.org/10.1186/s40594-016-0046-z>
- Kemdikbud. (2020). Panduan Pembelajaran Jarak Jauh. *Kementrian Pendidikan Dan Kebudayaan*, 28. <https://bersamahadapikorona.kemdikbud.go.id/panduan-pembelajaran-jarak-jauh/>
- Kennedy, T. J., & Odell, M. R. L. (2014). Engaging Students In STEM Education. *Science Education International*, 25(3), 246–258.
- Khabibah, E. N., Masykuri, & Maridi. (2017). The Effectiveness of Module Based on Discovery Learning to Increase Generic Science Skills. *Journal of Education and Learning*, 11(2), 146–153. <https://doi.org/10.11591/edulearn.v11i2.6076>
- Khofifah, L., Supriadi, N., & Syazali, M. (2021). Model Flipped Classroom dan Discovery Learning terhadap Kemampuan Pemahaman Konsep dan Pemecahan Masalah Matematis. *Prisma*, 10(1), 17. <https://doi.org/10.35194/jp.v10i1.1098>
- Kono, R., Hartono, D., Mamu, & Lilies, N. (2016). Pengaruh Model Problem Based Learning (PBL) terhadap Pemahaman Konsep Biologi dan Keterampilan Berpikir Kritis Siswa tentang Ekosistem dan Lingkungan di Kelas X SMA Negeri 1 Sigi. *Jurnal Sains Dan Teknologi Tadulako*, 5(1).
- Kristiarta, Y. A. (2017). *Implementasi Pendidikan Karakter dalam Pembelajaran Matematika Materi Limit Kelas XI IPA di SMA Negeri 1 Samigaluh*. Depok: Universitas Sanata Dharma.

- Kurniasih, I., & Sani, B. (2016). *Ragam Pengembangan Model Pembelajaran*. Jakarta: Kata Pena.
- Lasmiasi & Harta, I. (2014). Pengembangan Modul Pembelajaran untuk Meningkatkan Pemahaman Konsep dan Minat SMP. *PYTHAGORAS: Jurnal Pendidikan Matematika*, 9(2).
- Lee, J., Lee, I., & Kwon, Y. (2011). Scan & Learn! Use of Quick Response Code & Smartphones in a Biology Field Study. *The American Biology Teacher.*, 73(8), 485–492.
- Lestari, K. E., & Yudhanegara, M. R. (2017). *Penelitian Pendidikan Matematika*. Bandung: PT Refika Aditama.
- Madeamin, I. (2011). *Objektivitas Dan Kepraktisan*. Bantul: Diva Press.
- Miles, M. B., Huberman, A. M., & Saldana, J. (2014). *Qualitative Data Analysis, A Methods Sourcebook, Edition 3*. Sage Publications. Terjemahan Tjetjep Rohindi Rohidi, Jakarta: UI-Press.
- Muhith, A. (2018). Problematika Pembelajaran Tematik Terpadu di MIN III Bondowoso. *Indonesian Journal of Islamic Teaching*, 1(1), 45–61.
- Mulyatiningsih, E. (2013). *Metode Penelitian Terapan Bidang Pendidikan*. Jakarta: Alfabeta.
- Mumpuni, K. E., Susilo, H., & Rohman, F. (2013). The Potential of Local Plants as a Source of Learning Biology. *Seminar Nasional XI Pendidikan Biologi FKIP UNS*, 825–829.
- Munadi, Y. (2013). *Media Pembelajaran ( Sebuah Pendekatan Baru)*. Surabaya: Bumi Aksara.
- Nasution. (2011). *Metode Research Penelitian Ilmiah*. Surabaya: Bumi Aksara.
- Ningsih, Y. L., & Paradesa, R. (2018). Improving Students' Understanding of Mathematical Concept using MAPLE. *Journal of Physics: Conf. Series*, 948(012034). <https://doi.org/10.1088/1742-6596/948/1/012034>
- Novalia, I., Utami, P., Rostikawati, R. T., & Lathifah, S. S. (2021). The Effect of Discovery Learning Model Towards Biology Problem Solving. *Journal of Biology Education Research (JBER)*, 2(1), 14–20.
- Nurchahyo, E., & Agung, S. L. (2018). *The Implementation of Discovery Learning Model with Scientific Learning Approach to Improve Students ' Critical Thinking in Learning History*. 106–112.

- Özreçberoglu, N., & Çağanağa, Ç. K. (2018). Making it count: Strategies for improving problem-solving skills in mathematics for students and teachers' classroom management. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(4), 1253–1261.
- Polya, G. (1973). *How to Solve it*. New Jersey: Peinceton University Press.
- Prasad, K. S. (2011). Learning Mathematics By Discovery. *A Multidisciplinary Journal*, 1(1), 31–33.
- Prastowo, A. (2015). *Panduan Kreatif Membuat Bahan Ajar Inovatif*. Yogyakarta: DIVA Press.
- Pratiwi, M. K., & Indana, S. (2022). Pengembangan E-Modul Berbasis QR-Code untuk Melatihkan Kemampuan Literasi Digital Siswa pada Materi Perubahan lingkungan. *Berkala Ilmiah Pendidikan Biologi (BioEdu)*, 11(2), 457–468. <https://doi.org/10.26740/bioedu.v11n2.p457-468>
- Prince, M., & Felder, R. (2006). Inductive Teaching and Learning Methods: Definitions, Comparisons, and Research Bases. *Journal of Engineering Education*, 123–138.
- Puspitasari, Y., & Nurhayati, S. (2019). Pengaruh Model Pembelajaran Discovery Learning Terhadap Hasil Belajar Siswa. *Jurnal Pendidikan dan Kewirausahaan*, 7(1), 93–108. <https://doi.org/10.47668/pkwu.v7i1.20>
- Rahmawati, D., Sajidan, Ashadi, Afandi, & Prasetyanti, N. M. (2019). The implementation of stim hots model to improve student's problem solving skill of metabolism learning in senior high school. *Journal of Physics: Conference Series*, 1241(1). <https://doi.org/10.1088/1742-6596/1241/1/012045>
- Rahmawati, T. D., Sulisworo, D., & Prasetyo, E. (2020). Enhancing Students' Motivation and Problem Solving Skills in Mathematics Using Guided Discovery Learning. *Universal Journal of Educational Research*, 8(12), 6783–6789. <https://doi.org/10.13189/ujer.2020.081244>
- Ramdani, R., S, A., & Sirajuddin, S. (2018). Karakteristik Modul Berbasis Pemecahan Masalah Untuk Melatihkan Berpikir Reflektif Siswa. *Prosiding Seminar Nasional Universitas Cokroaminoto Palopo*, 4(1).
- Ramiawati, Y. & Insani, A. (2017). Pengaruh Model PBL (Problem Based Learning) terhadap Motivasi dan Hasil Belajar IPA Peserta Didik. *Jurnal Sainsmat*, 6(1).



- Rangkuti, & Muhtadi, A. (2017). *Ekosistem Pesisir & Laut Indonesia*. Jakarta: Salemba Empat.
- Rayandra, A. (2017). *Kreatif Mengembangkan Media Pembelajaran*. Sidoarjo: Gaung Persada (GP) Press.
- Reeve, J. (2013). How Students Create Motivationally Supportive Learning Environments for Themselves. The Concept of Agentic Engagement. *Journal of Educational Psychology*, 105(3), 579–595.
- Rubiyanto, B. A. J., Marjono, M., & Prayitno, B. A. (2015). Penerapan Model Discovery Learning pada Materi Ekosistem untuk Meningkatkan Kemampuan Berpikir Tingkat Tinggi Siswa Kelas X SMA. *Bio-Pedagogi*, 5(1), 6. <https://doi.org/10.20961/bio-pedagogi.v5i1.5394>
- Rusyan, A. T. (1989). *Pendekatan Dalam Proses Belajar Mengajar*. Bandung: Remadja Karya.
- Sadirman, A. S. (2014). *Media pendidikan : pengertian, pengembangan dan pemanfaatannya*. Jakarta: Raja Grafindo Persada.
- Sahrudin, A. (2016). Implementasi Model Pembelajaran MEANS-ENDS ANALYSIS untuk Meningkatkan Kemampuan Pemecahan Masalah Matematika Mahasiswa. *Jurnal Pendidikan UNSIKA*, 4, 17–25.
- Salloum, S. A., Qasim, A., Alhamad, M., Al-emran, M., Monem, A. A., & Shaalan, K. (2019). Exploring Students ' Acceptance of E-Learning Through the Development of a Comprehensive Technology Acceptance Model. *IEEE Access*, 7(September), 128445–128462. <https://doi.org/10.1109/ACCESS.2019.2939467>
- Salmi, S. (2019). Penerapan Model Pembelajaran Discovery Learning Dalam Meningkatkan Hasil Belajar Ekonomi Peserta Didik Kelas Xii Ips.2 Sma Negeri 13 Palembang. *Jurnal PROFIT Kajian Pendidikan Ekonomi dan Ilmu Ekonomi*, 6(1), 1–16. <https://doi.org/10.36706/jp.v6i1.7865>
- Sani, R. A. (2014). *Pembelajaran Saintifik untuk Implementasi Kurikulum 2013*. Jakarta: PT Bumi Aksara.
- Sani, R. A. (2016). *Penilaian Autentik*. Jakarta: PT Bumi Aksara.
- Santi, D. H., Prayitno, B. A., & Muzzazinah, M. (2019). Problem Solving Process and Creative Thinking of Students in Ecosystem Issue. *JPBI (Jurnal Pendidikan Biologi Indonesia)*, 5(3), 537–548. <https://doi.org/10.22219/jpbi.v5i3.9647>

- Sarah, S., & Maryono. (2014). Keefektifan Pembelajaran Berbasis Potensi Lokal dalam Pembelajaran Fisika SMA dalam Meningkatkan Living Values Siswa. *Jurnal Pendidikan Sains Universitas Muhammadiyah Semarang*, 02(01), 6–13.
- Sarifudin, E., & Koswara, K. (2018). Improving Problem Solving Ability Through The Discovery Learning Approach on Study of Social Sciences. *Journal Creative of Learning*, 01(06), 327–338. <http://journal.ikipsiliwangi.ac.id/index.php/collase/article/view/2296>
- Serevina, V., Sunaryo, Raihanati, Astra, I. M., & Sari, I. J. (2018). Electronic Module Development To Improve Student Skills. *TOJET*, 17(3), 26–36. <https://eric.ed.gov/>
- Setyawan, W. H., & Nawangsari, T. (2021). Pengaruh E-Module Speaking Berbasis Website Untuk Meningkatkan Keterampilan Berbicara ( Survei Pada Pendaftaran Situs Kursus Kampung Inggris Pare ). *Jurnal Teknologi Pendidikan*, 339–346.
- Siang, J. L., Ibrahim, N., & Rusmono. (2017). Pengembangan Paket Modul Cetak Mata Pelajaran Pendidikan Agama Kristen SMP Negeri Tidore Kepulauan. *Jurnal Teknologi Pendidikan*. <https://doi.org/10.21009/jtp.v19i3.6708>
- Simamora, R. E., Dewi Rotua Sidabutar, & Surya, E. (2017). Improving Learning Activity and Students' Problem Solving Skill through Problem Based Learning (PBL) in Junior High School. *International Journal of Sciences: Basic and Applied Research (IJSBAR)*, 4531(June), 321–331.
- Sriarunrasmee, J., Suwannatthachote, P., & Dachakupt, P. (2015). Virtual Field Trips with Inquiry learning and Critical Thinking Process: A Learning Model to Enhance Students' Science Learning Outcomes. *Procedia - Social and Behavioral Sciences*, 197(February), 1721–1726. <https://doi.org/10.1016/j.sbspro.2015.07.226>
- Subramaniam, G., Sultan, P., & Shah, I. (2023). *Using Discovery Learning Strategy as A Teaching Method to Enhance Conceptual Mastery Among Polytechnic ' Engineering Science Students in Learning Linear Motion. December 2022.*
- Suduc, A.-M., Bizoi, M., & Gorghiu, G. (2015). Inquiry Based Science Learning in Primary Education. *Procedia - Social and Behavioral Sciences*, 205(October), 474–479. <https://doi.org/10.1016/j.sbspro.2015.09.044>
- Sugiyono. (2014). Metode penelitian. In *Metode Penelitian*. Bandung: Alfabeta.
- Sugiyono. (2014). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif dan R&D*. Bandung: Alfabeta.

- Suprihatiningrum, J. (2013). *Strategi Pembelajaran Teori dan Aplikasi*. Yogyakarta: Ar-Ruzz Media.
- Syahri, W., Muhaimin, & Sirait, D. T. (2017). Pengembangan Bahan Ajar E-Book Berbasis Metakognisi Menggunakan 3D Pageflip pada Materi Hukum-Hukum Dasar Kimia dan Stoikiometri Di Kelas X MIPA SMA Negeri 1 Muaro Jambi. *J. Ind. Soc. Integ. Chem*, 9(1), 18–25.
- Utami, R. E., Nugroho, A. A., Dwijayanti, I., & Sukarno, A. (2018). Pengembangan E-Modul Berbasis Etnomatematika Untuk Meningkatkan Kemampuan Pemecahan Masalah. *JNPM (Jurnal Nasional Pendidikan Matematika)*, 2(2), 268. <https://doi.org/10.33603/jnpm.v2i2.1458>
- Uyangor, N., Sahan, H. H., & Tanriverdi, M. (2013). Teachers Perceptions Towards Modules Used In Vocational And Technical Education. *Procedia Social and Behavioral Sciences*, 2522–2531.
- Wati, Y., & Sartiman, S. (2019). Discovery Learning: Pengaruhnya Terhadap Hasil Belajar. *Indonesian Journal of Science and Mathematics Education*, 2(1), 123–129. <https://doi.org/10.24042/ijjsme.v2i1.3981>
- Weaver, M. G., Samoshin, A. V, Lewis, R. B., & Gainer, M. J. (2016). Developing students' critical thinking, problem solving, and analysis skills in an inquiry-based synthetic organic laboratory course. *Journal of Chemical Education*, 93(5), 847–851. <https://pubs.acs.org/doi/pdf/10.1021/>
- Wena, M. (2012). *Strategi Pembelajaran Inovatif Kontemporer: Suatu Tinjauan Konseptual Operasional*. Bekasi: CV Sahri.
- Wijayati, N., Sumarni, W., & Supanti, S. (2019). Improving Student Creative Thinking Skills Through Project Based Learning. *KnE Social Sciences, January*. <https://doi.org/10.18502/kss.v3i18.4732>
- Yamin, Y., Permanasari, A., Redjeki, S., & Sopandi, W. (2020). Project Based Learning To Enhance Creative Thinking Skills of the Non-Science Students. *Jhss (Journal of Humanities and Social Studies)*, 4(2), 107–111. <https://doi.org/10.33751/jhss.v4i2.2450>
- Youngchim, P., Pasiphol, S., & Sujiva, S. (2015). Development of a Mathematical Problem Solving Diagnostic Method : an Application of Bayesian Networks and Multidimensional Item Respond Theory . *Procedia - Social and Behavioral Sciences*, 191, 742–747. <https://doi.org/10.1016/j.sbspro.2015.04.497>
- Yusnaeni, Y., Corebima, A. D., Susilo, H., & Zubaidah, S. (2017). Creative thinking of low academic student undergoing search solve create and share

learning integrated with metacognitive strategy. *International Journal of Instruction*, 10(2), 245–262. <https://doi.org/10.12973/iji.2017.10216a>

Yustina, Syafii, W., & Vebrianto, R. (2020). The effects of blended learning and project-based learning on pre-service biology teachers' creative thinking skills through online learning in the COVID-19 pandemic. *Jurnal Pendidikan IPA Indonesia*, 9(3), 408–420. <https://doi.org/10.15294/jpii.v9i3.24706>

Zakiah, N. E., & Fajriadi, D. (2020). Hybrid-PjBL: Creative thinking skills and self-regulated learning of pre-service teachers. *Journal of Physics: Conference Series*, 1521(3). <https://doi.org/10.1088/1742-6596/1521/3/032072>

