

DAFTAR PUSTAKA

- Anggi, Desviana. S., Harahap, Lenni. K. (2020). Development of Project Based Learning E-Module Integrated Media Computation Hyperchem on Materials Molecular Shapes. *Journal of Science Education Research*, 10 (1),1925 – 1931, doi: [10.26740/jpps.v10n1.p1925-1931](https://doi.org/10.26740/jpps.v10n1.p1925-1931)
- Bencze, L., Pouliot, C., Pedretti, E., Simonneaux, L., Simonneaux, J. & Zeidler, D. (2019). SAQ, SSI and STSE Education: Defending And Extending “Science-In-Context”. *Cultural Studies of Science Education*
- Binadja, A. (1999). Pendidikan SETS (Science, Environmenr, Tecnology, and Society) Penerapannya pada Pengajaran (SETS) Education Coverage Science and Non Science.
- Borg and Gall. (1983). *Educational Research; An Introduction*. Longman Inc, New York & London.
- Chowdhury, M. A. (2016).The integration of science-technology-society/science-technology-society-environment and socio-scientific-issues for effective science education and science teaching. *Electronic Journal of Science Education*, 20(5), 20-38.
- Dari, R.W. & Nasih, N. R. (2020). Analisis Keterampilan proses sains mahasiswa pada praktikum menggunakan e-modul. *Edu Sains Jurnal Pendidikan Sains & Matematika*, 8 (2), 12 – 21, doi : 10.23971/eds.v8ia.1626.
- Dick, W. & Carey, L. (1978). *The Systematic Design of Instruction*. United State of America: Harper Collins Publishers.
- Depdiknas. 2008. *Penulisan Modul*. Jakarta: Departemen Pendidikan Nasional.
- Hervia, F. & Ristiono. Modul Elektronik (E-modul) IPA Bernuansa Emotional Spiritual Quotient (ESQ) mengenai Materi Sistem Reproduksi pada Manusia. *Journal for Lesson and Learning Studies*, 4(3), 370-377.
- Holme, T. A. (2020), Journal of chemical education call for papers: Special issue on insights gained while teaching chemistry in the time of covid-19. *Journal of Chemical Education*, 97, 1226-1227. doi:10.1021/acs.jchemed.0c00378.
- Mahlianurrahman. (2017). Pengembangan perangkat pembelajaran Science, Environment, Technology, Society (SETS) untuk meningkatkan pemahaman konsep dan sikap peduli lingkungan didwa sekolah dasar. *Pedagogia Jurnal Pendidikan*, 6(2), 133 -149, doi: 10.21070/pedagogia.v6i2.845.

- Maknun, J., Busono, T. & Surasetja, I. (2017). Envisioning science environment technology and society. *Paper presented ICEVE 306*. doi:10.1088/1757-899X/306/1/012064
- Muruganantham, G. (2015). Developing of E-content package by using ADDIE model. *International Journal of Applied Research*, 1(3), 52-54.
- Padmo, D., dkk. (2004). *Teknologi Pembelajaran (Peningkatan Kualitas Belajar melalui Teknologi Pembelajaran)*. Jakarta. Pusat Teknologi Komunikasi dan Informasi Pendidikan.
- Pedretti, E. & Nazir, J. (2011). Currents in STSE education: Mapping a complex field, 40 years. *Science Education*, 95, 601-626. Doi:10.1002/sce.20435.
- Pedretti, E. & Nazir, J. (2015). Science, Technology and Society (STS). In R. Gunstone (Ed.). *Encyclopedia of science education* (pp. 932-935). Dordrecht: Springer, doi : 10.1007/978-94-007. 2150-0.
- Prastowo, Andi. 2015. *Panduan Kreatif Membuat Bahan Ajar Inovatif*. Yogyakarta: DIVA Press.
- Puriwat, W. & Tripopsakul, S. (2020). Preparing for industry 4.0-will youths have enough essential skills?: An Evidence from Thailand. *International Journal of Instruction*, 13(3), 89-104, doi:10.29333/iji.2020.1337a
- Rahmi, L. (2018). Perancangan E-Module Perakitan Dan Instalasi Personal Komputer Sebagai Media Pembelajaran Siswa SMK. *Jurnal TA'DIB*, 21(2), 105-111.
- Rasiman dan Pramasdyahsari, A.S. (2014). Development of Mathematics Learning Media E-Comic Based on Flip Book Maker to Increase the Critical Thinking Skill and Character of Junior High School Students. *International Journal of Education and Research*, 2 (11), 25 -32.
- Retno, R. S. & Marlina D. (2018). Implementasi SETS (Science Environment Technology and Society) pada Pembelajaran IPA SD Berbasis Inquiry terhadap Berpikir Ilmiah Siswa Kelas 4 MI Al- Irsyad Madiun. *Bio-Pedagogi : Jurnal Pembelajaran Biologi*, 7(2), 54-58.
- Rikizaputra, Festiyed, Adha, Y., & Yerimadesi. (2021). Meta-Analisis: Validitas dan Praktikalitas Modul IPA Berbasis Saintifik. *Bio-Lectura : Jurnal Pendidikan Biologi*, 8(1). 45-56.
- Rosmawati, R., Mutaqin, A. & Ihsanuddin. (2020). Pengembangan e-modul dengan model pembelajaran knisley dengan menggunakan platform android sebagai alternative pembelajaran trigonometri SMA. *Jurnal Pendidikan Matematika*, 11(1), 67-76., doi: 10.36709/jpm.v11i1.2662.

- Samiasih, R., Sulton & Praherdhiono, H. (2017). Pengembangan e-module mata pembelajaran ilmu pengetahuan alam pokok bahasan interaksi makhluk hidup dengan lingkungannya. *Edcomtech*, 2(2), 1199-124.
- Silalahi, A. (2018). Development Research (Penelitian Pengembangan) dan Research & Development (Penelitian & Pengembangan) dalam Bidang Pendidikan/Pembelajaran. *Seminar & Workshop Penelitian Disertasi Unimed*. doi : 10.13140/RG.2.2.13429.88803/1.
- Sinaga, M., Situmorang, M. & Hutabarat, W. (2019). Implementation of Innovative Learning Material to Improve Students Competence on Chemistry. *Indian Journal of Pharmaceutical Education and Research*, 53(1), 28-41. Doi: 10.5530/ijper.53.1.5
- Sofan, A. & Ahmadi, L. K. (2010). *Konstruksi Pengembangan Pembelajaran*. Jakarta: Prestasi Pustaka.
- Stoetzel, L., & Shedrow, S. (2020). Coaching our coaches: How online learning can address the gap in preparing K-12 instructional coaches. *Teaching and Teacher Education*, 88, 1-11.
- Subkhan, E. (2020). What is new on curriculum policy and how it affects curriculum studies?. *Indonesian Journal of Curriculum and Educational Technology Studies*, 8(1), 59-63.
- Sugiyono. (2017). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabeta.
- Suranto, J. D., Sajida & Scianto. (2018). Kajian prestasi belajar biologi menggunakan model SETS (Science, Environment, Technology, and Society) dengan metode observasi laboratorium dan metode observasi lapangan ditinjau dari sikap ilmiah dan kreativitas siswa, *Jurnal Pendidikan IPA*, 7(2), 199-208.
- Uz, LM. Z., Haryono & Wardani, The development of chemical e-module based on problem of learning to improve the concept of student understanding. *Innovative journal of curriculum and educational technology*, 8(2), 59-66.
- Vitrianingsih, D., Aulianingsih, I & Yuliani. (2021). Analisis Kebutuhan Pengembangan Modul Elektronik (E-Module) IPA Terintegrasi Islam. *Jurnal Ilmiah Pendidikan Fisika*, 5(1), 27-37.
- Widiantini, N. Ny. A. S., Putra, M & Wiarta, I. W. (2017). Model Pembelajaran SETS (Science, Environment, Technology, Society) Berbantuan Virtual Lab Berpengaruh terhadap Kompetensi Pengetahuan IPA. *Journal of Education Technology*, 1(2), 141-148.

Zoller, U. (2013). Science, Technology, Environment, Society (SETS) Literacy for Sustainability: what should it take in chem/science education. *Educ. quim*, 24(2), 207-214.

