

DAFTAR PUSTAKA

- Abdullah, S. D. A. (2018). Peran Hanan Attaki dalam Membangun Persepsi Generasi Milenial tentang Tuhan (Analisis Isi Atas Video “Kangen” di Youtube. *Raushan Fikr*. 7(1), pp. 65–74.
- Abidin HZ, Andreas H, Gumilar I, Fukuda Y, Pohan YE, Deguchi T. (2011) Land subsidence of Jakarta (Indonesia) and its relation with urban development. *Nat Hazards*. 59(3): 1753-1771.
- Ahزاب, A.Y dkk. 2016. Penurunan Permukaan Tanah di DKI Jakarta. Universitas Indonesia. Depok. Makalah
- Alfarisa, Fitri, and Dian Normalitasari Purnama. (2019). “Analisis Butir Soal Ulangan Akhir Semester Mata Pelajaran Ekonomi SMA Menggunakan RASCH Model.” *Jurnal Pendidikan Ekonomi Undiksha* 11, no. 2 : 366–74.
- Anita, Anita, Sulis Tyowati, and Zulfadrial Zulfadrial. “Analisis Kualitas Butir Soal Fisika Kelas X Sekolah Menengah Atas.” *Edukasi: Jurnal Pendidikan* 16, no. 1 (2018): 35–47.
- Ardiyanti, D. (2016). Aplikasi model rasch pada pengembangan skala efikasi diri dalam pengambilan keputusan karir siswa. *Jurnal Psikologi*, 43(3), 248-263.
- Aoun, J. E. (2017). *Robot-Proof: Higher Education in the Age of Artificial Intelligence*. The MIT Press. <https://opensourcebook.in/wp-content/uploads/2020/04/19ele.pdf>
- Azizah, A., & Wahyuningsih, S. (2020). Penggunaan model RASCH untuk analisis instrumen tes pada mata kuliah matematika aktuarial. *Jurnal Pendidikan Matematika (JUPITEK)*, 3(1), 45-50.
- Bond, T. G., & Fox, C. M. (2013). *Applying the Rasch model: Fundamental measurement in the human sciences*. Psychology Press.
- Branch, R. M. (2009). *Instructional Design-The ADDIE Approach*. New York: Springer.
- Chang, C. Y., Sung, H. Y., Guo, J. L., Chang, B. Y., & Kuo, F. R. (2022). Effects of spherical video-based virtual reality on nursing students’ learning performance in childbirth education training. *Interactive Learning Environments*, 30(3), 400-416.
- Chien S.-Y., Hwang G.-J. & Siu-Yung Jong M. (2019). Effects of peer assessment within the context of spherical video-based virtual reality on EFL students’

- English-Speaking performance and learning perceptions. *Computers & Education*. doi: <https://doi.org/10.1016/j.compedu.2019.103751>.
- CNN Indonesia. (2021). Nadiem : Sistem Pendidikan Kita Gagal Edukasi Perubahan Iklim. <https://www.cnnindonesia.com/nasional/20211117122944-20-722350/nadiem-sistem-pendidikan-kita-gagal-edukasi-perubahan-iklim>
- Damanik, D., Wachyuni, S. S., Wiweka, K., & Setiawan, A. (2019). The Influence of Social Media on the Domestic Tourist's Travel Motivation Case Study: Kota Tua Jakarta, Indonesia. *Current Journal of Applied Science and Technology*, 36(6), 1–14. <https://doi.org/10.9734/cjast/2019/v36i630263>
- De Boer. (2000) .Scientific literacy: another look at its historical and contemporary meanings and its relationship to science education reform. *Journal Research in Sci. Teach.* 37(6) pp 582-601
- Dick, W., Carey, L., & Carey, J. O. (2005). *The systematic design of instruction*. Boston, Massachusetts: Pearson/Allyn and Bacon.
- Fitri, A., Maulud, K. N. A., Pratiwi, D., Phelia, A., Rossi, F., & Zuhairi, N. Z. (2020). Trend Of Water Quality Status In Kelantan River Downstream, Peninsular Malaysia. *Jurnal Rekayasa Sipil (JRS-Unand)*, 16(3), 178–184.
- Garris Pelangi. (2020). Pemanfaatan Aplikasi Canva Sebagai Media Pembelajaran Bahasa Dan Sastra Indonesia. *Jurnal Sasindo Unpam*. 8(2), 79–96. <https://doi.org/http://dx.doi.org/10.32493/sasindo.v8i2.79-96>
- Hafizah, S. (2020). Penggunaan dan Pengembangan Video dalam Pembelajaran Fisika. *Jurnal Pendidikan Fisika*. Vol. VIII, 225-240. <http://dx.doi.org/10.24127/jpf.v8i2.2656>
- Hake, R, R. (1999). *Analyzing Change/Gain Scores*. AREA-D American Education Research Association's Division, D, Measurement and Research Methodology.
- Hakim, Wahyu Luqmanul, Arief Rizqiyanto Achmad, and Chang-Wook Lee. (2020). "Land Subsidence Susceptibility Mapping in Jakarta Using Functional and Meta-Ensemble Machine Learning Algorithm Based on Time-Series InSAR Data" *Remote Sensing* 12, no. 21: 3627. <https://doi.org/10.3390/rs12213627>
- Hendra, J._Nurdin, L. (2020). Eksistensi Media Sosial, Youtube, Instagram dan Whatsapp Ditengah Pandemi Covid-19 Dikalangan Masyarakat Virtual Indonesia, Baitul 'Ulum: *Jurnal Ilmu Perpustakaan dan Informasi*, hal. 41-57. doi = 10.30631/baitululum.v4i1.46
- Houghton, John. (2009). *Global Warming The Complete Briefing Fifth Edition*. United Kingdom: Cambridge Unicersity Press.

- Hussain, dkk. 2011. Physic Teaching Methods: Scientific Inquiry Vs Tradisional Lecture. *University of Education Pakistan: International Journal of Humanities and Social Science*. Vol.1, No. 19. [online]. Tersedia: www.ijhssnet.com. Diakses tanggal 11 November 2015
- Innatesari, D. K., Sajidan, S., & Sukarmin, S. (2019). The profile of students' scientific inquiry literacy based on scientific inquiry literacy test (ScInqLiT). *Journal of Physics: Conference Series*, 1227, 012040. <https://doi.org/10.1088/1742-6596/1227/1/012040>
- Innatesari, D. K., Sajidan, S., & Hanggawati, R. S. (2020). GIL-based heat and temperature module: Empowering scientific inquiry literacy of junior high school students. *Jurnal Ilmiah Pendidikan Fisika Al-BiRuNi*, 9(2), 195-206.
- Iskandar, H.(2022). *Pengembangan Video Pembelajaran Fisika Pada Materi Sistem Tata Surya*, 32-37.
- Jung, J., Kim, B., Lee, J. Y., Kim, B., & Lee, S. (2017). Robust upright adjustment of 360 spherical panoramas. *The Visual Computer*, 33(6-8), 737-747.
- Ladachart, dan Yuenyong. 2015. Scientific Inquiry as a Means to Develop Teachers' and Supervisors' Scientific Literacy. *International Journal of Science Educators and Teachers*, Volume 1, Number 1, pp. 63-76.
- Lalian, O. N. (2018). The Effects of Using Video Media in Mathematics Learning on Students's Cognitive and Affective Aspects. *AIP Conference Proceesidings, USA*, 1-4.
- Lederman, J.S., (2009). *Teaching Scientific Inquiry: Exploration, Directed, Guided, and Opened-Ended Levels*. New York: Allyn & Bacon
- Lin, H. C. S., Yu, S. J., Sun, J. C. Y., & Jong, M. S. Y. (2021). Engaging university students in a library guide through wearable spherical video-based virtual reality: Effects on situational interest and cognitive load. *Interactive Learning Environments*, 29(8), 1272-1287.
- Martínez, V. C., García, A. L. G., & Moraleda, I. J. M. (2022). 360 video trend on YouTube before and during the COVID-19 pandemic. *Journal of Creative Communications*, 17(1), 22-34.
- Maydiantoro, A. (2021). Research Model Development: Brief Literature Review. *Jurnal Pengembangan Profesi Pendidik Indonesia (JPPPI)*, 34-35.
- McFaul, H., & FitzGerald, E. (2019). A realist evaluation of student use of a virtual reality smartphone application in undergraduate legal education. *British Journal of Educational Technology*. doi: 10.1111/bjet.12850

- Merchant, Z., Goetz, E. T., Cifuentes, L., Keeney-Kennicutt, W., & Davis, T. J. (2014). Effectiveness of virtual reality-based instruction on students' learning outcomes in K-12 and higher education: A meta-analysis. *Computers & education*, 70, 29-40.
- Mulyani, A. S. (2021). *Pemanasan global, penyebab, dampak dan antisipasinya*.
- Muntazhimah, M., Putri, S., & Khusna, H. (2020). Rasch model untuk memvalidasi instrumen resiliensi matematis mahasiswa calon guru matematika. *JKPM (Jurnal Kajian Pendidikan Matematika)*, 6(1), 65-74.
- Murdohardono, D. and Sudarsono. U. (1998). Land subsidence monitoring system in Jakarta. *Proceedings of Symposium on Japan-Indonesia IDNDR Project: Volcanology, Tectonics, Flood and Sediment Hazards*, Bandung, 21-23 September, pp. 243-256.
- National Research Council. (1996). *National Science Education Standards* (Washington, DC: National Academy Press)
- NGSS Lead Srares. (2013) *Next Generation Science Standarts: For States, By States* (Washington, DC: The National Academic Press)
- Notoatmodjo. (2005). *Metodologi Penelitian Kesehatan* (Jakarta: Rineka Cipta)
- Nurgiansah, T. H. (2022). Meningkatkan Minat Belajar Siswa Dengan Media Pembelajaran Konvensional Dalam Pembelajaran Pendidikan Kewarganegaraan. *Jurnal Pendidikan dan Konseling (JPDK)*, 4(3), 1529-1534.
- Obergassel, W., Arens, C., Hermwille, L., Kreibich, N., Mersmann, F., Ott, H. E., & Wang-Helmreich, H. (2015). Phoenix from the ashes: an analysis of the Paris Agreement to the United Nations Framework Convention on Climate Change; part 1.
- Odegaard, M., Haug, B., Mork, S., & Sorvik, G. O. (2015). Budding science and literacy. A classroom video study of the challenges and support in an integrated inquiry and literacy teaching model. *Procedia-Social and Behavioral Sciences*, 167, 274-278.
- Phelia, A., Pramita, G., Susanto, T., Widodo, A., & Tina, A. (2021). Implementasi Project Base Learning dengan Konsep Eco-Green di SMA IT Baitul Jannah Bandar Lampung. *SELAPARANG: Jurnal Pengabdian Masyarakat Berkemajuan*, 5(1), 670-675.
- Phelia, A., & Sinia, R. O. (2021). Skenario Pengembangan Fasilitas Sistem Pengolahan Sampah Dengan Pendekatan Cost Benefit Analysis Di Kelurahan Kedamaian Kota Bandar Lampung. *Jurnal Serambi Engineering*, 6(1).

- Pratama, R. Parrinduri, L. (2019). Penanggulangan Pemanasan Global. *Buletin Utama Teknik Vol. 15, No. 1,* 91-95.
- Puger, I G.N. (2018). Sampah Organik, Kompos, Pemanasan Global, dan Penanaman Aglaonema di Pekarangan. *Jurnal Agro Bali : Agricultural Journal*, 1(8), 127-136. DOI: <https://doi.org/10.37637/ab.v1i2.402>.
- Purwana, U., Rusdiana, D., & Liliawati, W. (2020). Pengujian Kemampuan Menginterpretasikan Grafik Kinematika Calon Guru Fisika: the Polytomous Rasch Analysis. *ORBITA: Jurnal Kajian, Inovasi Dan Aplikasi Pendidikan Fisika*, 6(2), 259-266.
- Puspaningsih, A. R., Tjahjardarmawan, E., & Krisdianti, N. R. (2021). Ilmu Pengetahuan Alam.
- Puspitarini, Y. D., & Hanif, M. (2019). Using Learning Media to Increase Learning Motivation in Elementary School. *Anatolian Journal of Education*, 4(2), 53-60.
- Puspita, N. Y., & Hervino, A. D. (2023). Implementasi Ratifikasi Paris *Paris Agreement* oleh Indonesia dan Pengaruhnya terhadap Kebijakan Perekonomian Indonesia. *Jurnal Komunikasi Hukum (JKH)*, 9(1), 704-728.
- Prastowo, A. (2014). *Panduan Kreatif Membuat Bahan Ajar Inovatif*. Yogyakarta: Diva Press
- Pratiwi, D., & Fitri, A. (2021). Analisis Potensial Penjalaran Gelombang Tsunami di Pesisir Barat Lampung, Indonesia. *Jurnal Teknik Sipil*, 8(1), 29–37.
- Rachman, T., & Napitupulu, D. B. (2017). Rasch model for validation a user acceptance instrument for evaluating e-learning system. *Communication and Information Technology Journal*, 11(1), 9. <https://doi.org/10.21512/commit.v11i1.2042>.
- Rahayu, R., Rosita, R., Rahayuningsih, Y. S., Hernawan, A. H., & Prihantini, P. (2022). Implementasi Kurikulum Merdeka Belajar di Sekolah Penggerak. *Jurnal basicedu*, 6(4), 6313-6319.
- Rahma, S. S. (2019). Pengembangan media pembelajaran dengan konsep video 360 derajat berbasis kontekstual pada materi pencemaran lingkungan siswa kelas VII di SMPN 3 Kendal. *Skripsi*. Universitas Islam Negeri Walisongo Semarang
- Rahmadania, N. (2022). Pemanasan Global Penyebab Efek Rumah Kaca dan . *Jurnal Ilmu teknik, Vol.2, NO.3*, 1-13.
- Rambing, X. S., & Tulenan, V. (2017). Virtual Reality Berbasis Video 360 Derajat pada Tari-Tarian Adat Suku Minahasa. *Jurnal Teknik Informatika*, 11(1).

- Reyna, J. (2018). The potential of 360-degree videos for teaching, learning and research. In *12th International Technology, Education and Development Conference, INTED2018 Proceedings*. <https://doi.org/10.21125/inted.2018.0247>
- Rosyida, A., & Nurmasari, R. (2019). Analisis Perbandingan Dampak Kejadian Bencana Hidrometeorologi dan Geologi di Indonesia Dilihat Dari Jumlah Korban (Studi: Data Kejadian Bencana Indonesia 2018). *Jurnal Dialog dan Penanggulangan Bencana*, 10(1), 12-21.
- Rupp, M. A., Odette, K. L., Kozachuk, J., Michaelis, J. R., Smither, J. A., & McConnell, D. S. (2019). *Investigating learning outcomes and subjective experiences in 360-degree videos*. *Computers & Education*, 128, 256-268.
- Sanjaya, M. R., Saputra, A., Putra, B. W., & Azhar, I. S. B. (2020, April). Mobile android based geographic information system (GIS) software development for tourist destination seekers in Palembang city using rasch model measurements. In *Journal of Physics: Conference Series* (Vol. 1500, No. 1, p. 012108). IOP Publishing.
- Septiani, D. A., Junaidi, E., & Purwoko, A. A. (2020). Hubungan Antara Keterampilan Berpikir Kritis Dan Kemampuan Literasi Sains Pada Mahasiswa Pendidikan Kimia Di Universitas Mataram. *Prosiding Seminar Nasional FKIP Universitas Mataram*, 1(1), 15–19.
- Serway, Raymond A. dan Jewett, John. 2014. *Physics for Scientists and Engineers with Modern Physics, Ninth Edition*. Unites States of America: Brooks/Cole
- Shao-she Chang, Ting-Chia Hsu, Yen-Ni Chen & Morris Siu-yung Jong (2020) The effects of spherical video-based virtual reality implementation on students' natural science learning effectiveness, *Interactive Learning Environments*, 28:7, 915929, DOI: 10.1080/10494820.2018.1548490
- Sidorenko, P., Calvo, L. M., & Cantero, J. I. (2018). Marketing y publicidad inmersiva: el formato 360° y la realidad virtual en estrategias transmedia. *Miguel Hernández Communication Journal*, 9(1), 19–47.
- Siregar, M. (2019). Penerapan Metode Brainstorming untuk Meningkatkan Hasil Belajar Pkn Siswa VIII Spm Negeri 2 Satu Atap Pangkatan Labuhanbatu Tahun Pelajaran 2013/2014. *CIVITAS (Jurnal Pembelajaran dan Ilmu Civic)*, 5(1), 27-33.
- Soemarwoto, O. 1992. *Indonesia dalam Kancah Isu Lingkungan Global*. Jakarta: PT Gramedia Pustaka Utama.
- Souza, M. A. P., Coster, W. J., Mancini, M. C., Dutra, F. C. M. S., Kramer, J., & Sampaio, R. F. (2017). Rasch analysis of the participation scale (P-scale):

- usefulness of the P-scale to a rehabilitation services network. *BMC Public Health*, 17(1), 934. <https://doi.org/10.1186/s12889-017-4945-9>
- Sugiyono. 2017. *Metode Penelitian Kuantitatif, Kualitatif dan R & D*. Bandung: Alfabeta
- Sujati, B. (2018). Sejarah Perkembangan Globalisasi dalam Dunia Islam, *NALAR: Jurnal Peradaban dan Pemikiran Islam*, vol.2(2), hal.98-109. Doi = 10.23971/njppi.v2i2.969}98-109
- Sumintono, B. (2016). *Penilaian Keterampilan Berpikir Tingkat Tinggi : Aplikasi Pemodelan Rasch pada Asesmen Pendidikan*. Seminar Nasional Pendidikan IPA, FKIP Jurusan PMIPA, Universitas Lambung Mangkurat
- Sumintono, B., & Widhiarso, W. (2014). *Aplikasi Model Rasch untuk Penelitian Ilmu-ilmu Sosial*. Trim Komunikata.
- Sumintono, B., dan Widhiarso, W. (2015). *Aplikasi Pemodelan Rasch pada Assessment Pendidikan*. Cimah: Trim Komunikata
- Sumintono, B., & Widhiarso, W. (2013). *Aplikasi Permodelan Rasch Pada Assessment Pendidikan (Issue September)*.
- Sumintono, B. (2021). Penilaian Keterampilan Berpikir Tingkat Tinggi: Aplikasi Pemodelan Rasch pada Asesmen Pendidikan. *Prosiding Magister Pendidikan Ilmu Pengetahuan Alam*, 1(1).
- Suryatmojo, H., (2017). Konservasi DAS. Artikel Menara Ilmu Universitas Gadjah Mada, Yogyakarta
- Suryana, T. G. S., Setyadin, A. H., Samsudin, A., & Kaniawati, I. (2020, February). Assessing multidimensional energy literacy of high school students: an analysis of rasch model. In *Journal of Physics: Conference Series* (Vol. 1467, No. 1, p. 012034). IOP Publishing.
- Susiati, A., & Miarsyah, M. (2018). Hubungan Kemampuan Membaca Pemahaman Dan Kemampuan Berpikir Tingkat Tinggi Dengan Kemampuan Literasi Sains Guru Biologi. *Biosfer: Jurnal Pendidikan Biologi*, 11(1), 1–12. <https://doi.org/https://doi.org/10.21009/biosferjpb.11-1.1>
- Tegeh, M., et al, (2014). *Model Penelitian Pengembangan*. Yogyakarta: Graha Ilmu.
- Tohir, M. (2019). *Hasil PISA Indonesia Tahun 2018 Turun Dibanding Tahun 2015*. Projects: Universitas Ibrahimy, Kemendikbud. Vol. 2. DOI:10.17605/OSF.IO/8Q9VY
- Triana, V. (2008). Pemanasan global. *Jurnal Kesehatan Masyarakat Andalas*, 2(2), 159-163.

- Tulaiya, W. (2020). Analisis Kemampuan Literasi Sains Peserta Didik SMA/MA di Kabupaten Sumenep. *Inovasi Pendidikan Fisika*, 09(03), 417–427.
- Utina, R. (2010). *KECERDASAN EKOLOGIS: Strategi Membangun Lingkungan Hidup Berkualitas*. UNG.
- Vitasari, S. D. (2018). Assessment Instrument of Scientific Literacy Skills Based on Nature of Science For Middle School. *Journal of Development Research*, 2(2), 59-65.
- Walshe, N., & Driver, P. (2019). Developing reflective trainee teacher practice with 360-degree video. *Teaching and Teacher Education*, 78, 97-105.
- WAHYUDI, R. (2022). Pengaruh Karakteristik Aplikasi dan Kualitas Pengiriman Produk terhadap *Repurchase Intention* Pelanggan Shopee pada Mahasiswa FEB Universitas Muhammadiyah Sumatera Utara. *Doctoral dissertation*.
- Wang, J., Yi, S., Li, M., Wang, L., & Song, C. (2018). Effects of sea level rise, land subsidence, bathymetric change and typhoon tracks on storm flooding in the coastal areas of Shanghai. *Science of the total environment*, 621, 228-234.
- Wardhana, W. A. (2010). Dampak Pemanasan Global: Bencana Mengancam Umat Manusia. *Sebab, Akibat dan Usaha Penanggulangannya*, Andi, Yogyakarta.
- Wenning C J 2007 Assessing inquiry skills as a component of scientific literacy *J. Phys. Tchr. Educ Online* 4 (2) pp 21-24.
- Widowati, W., & Sutoyo, S. (2009). Upaya Mengurangi Penipisan Lapisan Ozon. *Buana Sains*, 9(2), 141-146.
- Windhyswara, D. (2018). Alasan Pemerintah Indonesia Meratifikasi Paris Climate Agreement Tahun 2016. *eJournal Ilmu Hubungan Internasional*, 6(4).
- Wu, C., Zhang, R., Wang, Z., & Sun, L. (2020, June). A spherical convolution approach for learning long term viewport prediction in 360 immersive video. In *Proceedings of the AAAI Conference on Artificial Intelligence* (Vol. 34, No. 01, pp. 14003-14040).
- Wu, W. L., Hsu, Y., Yang, Q. F., & Chen, J. J. (2021). A spherical video-based immersive virtual reality learning system to support landscape architecture students' learning performance during the COVID-19 era. *Land*, 10(6), 561.
- Wu, W. L., Hsu, Y., Yang, Q. F., Chen, J. J., & Jong, M. S. Y. (2021). Effects of the self-regulated strategy within the context of spherical video-based virtual reality on students' learning performances in an art history class. *Interactive Learning Environments*, 1-24.

- Yamtinah, S., Dewi, M. C., Nurhayati, N. D., Susilowati, E., Fakhrudin, I. A., Ramadhani, D. G., ... & Saputro, S. (2022). Content Validity in Android-Based Augmented Reality Media for High School Science Students on Covalent Bonds Topic: Rasch Model Analysis. *Jurnal Pendidikan Sains Indonesia (Indonesian Journal of Science Education)*, 10(2), 240-249.
- Yuliantini, N. P. R., & Suwatno, D. S. R. (2022). Ratifikasi Terhadap Traktat Persetujuan Paris (Paris Agreement) sebagai Wujud Implementasi Komitmen Indonesia dalam Upaya Mitigasi dan Adaptasi Perubahan Iklim. *Jurnal Pendidikan Kewarganegaraan Undiksha*, 10(2), 328-340.
- Yuriza, P. E., Adisyahputra, A., & Sigit, D. V. (2018). Correlation between higher-order thinking skills and level of intelligence with scientific literacy on junior high school students. *Biosfer: Jurnal Pendidikan Biologi*, 11(1), 13–21. <https://doi.org/https://doi.org/10.21009/biosferjpb.11-1>.
- Zhai, X., Zhang, M., & Li, M. (2018). One-to-one mobile technology in high school physics classrooms: Understanding its use and outcome. *British Journal of Educational Technology*, 49(3), 516–532.

