

## DAFTAR PUSTAKA

- Adriani, D., Lubis, P., & Triono, M. (2020). *Teaching Material Development of Educational Research*.
- Ali, S. S. (2019). Problem Based Learning: A Student-Centered Approach. *English Language Teaching*, 12(5), 73. <https://doi.org/10.5539/elt.v12n5p73>
- Amali, K., & Kurniawati, Y. (2019). Pengembangan Lembar Kerja Peserta Didik Berbasis Sains Teknologi Masyarakat pada Mata Pelajaran IPA di Sekolah Dasar. In *JNSI: Journal of Natural Science and Integration* (Vol. 2, Issue 2).
- Anggraini F. (2023). *A Bibliometric Analysis of Microlearning Video for Physics Online Learning Reasearch (2013-2023)*.
- Anissa A S, & Luthfi. (2024). Meningkatkan Kemampuan Peserta Didik Menghubungkan Materi dalam Kehidupan Sehari-hari dengan Strategy Concept Attainment, Pendekatan Kontekstual, dan Metode Demokrasi.
- Aritonang, R., Desak Putu Parmiti, & I Komang Sudarma. (2023). Video Pembelajaran Berbasis *Microlearning* pada Muatan IPAS. *Jurnal Media Dan Teknologi Pendidikan*, 3(2), 75–83. <https://doi.org/10.23887/jmt.v3i2.63538>
- Asenahabi, B. M. (2019). *Qualitative research, Mixed method research*. In *International Journal of Contemporary Applied Researches* (Vol. 6, Issue 5). [www.ijcar.net](http://www.ijcar.net)
- Astuti, R., Mardiyana, & Triyanto, (n.d.). *Analysis of the Problem Based Learning Syntax in Vocational Mathematics Books on Matrix Material 704*. <https://doi.org/10.18415/ijmmu.v7i1.1382>
- Bakri, F., Permana, H., Vani, N. D., & Mulyati, D. (2021). *The implementation of problem based learning in elasticities concept*. *AIP Conference Proceedings*, 2320. <https://doi.org/10.1063/5.0037601>
- Basri, N. A., Khaeruddin, K., & Usman, U. (2023). *Development of Physics Learning Video Media Based on Microlearning*. *Jurnal Ilmiah Pendidikan Fisika*, 7(3), 400. <https://doi.org/10.20527/jipf.v7i3.8375>
- Cahyadi, R. A. H. (2019). Pengembangan Bahan Ajar Berbasis Addie Model. *Halaqa: Islamic Education Journal*, 3(1), 35–42. <https://doi.org/10.21070/halaqa.v3i1.2124>
- Darmaji, Kurniawan, D. A., Astalini, Lumbantoruan, A., & Samosir, S. C. (2019). *Mobile learning in higher education for the industrial revolution 4.0: Perception and response of physics practicum*. *International Journal of Interactive Mobile Technologies*, 13(9), 4–20. <https://doi.org/10.3991/ijim.v13i09.10948>

- De Gagne, J. C., Park, H. K., Hall, K., Woodward, A., Yamane, S., & Kim, S. S. (2019). *Microlearning in Health Professions Education: Scoping Review (Preprint)*. <https://doi.org/10.2196/preprints.13997>
- Dewi, F. F., & Handayani, S. L. (2021). Pengembangan Media Pembelajaran Video Animasi En-Alter Sources Berbasis Aplikasi Powtoon Materi Sumber Energi Alternatif Sekolah Dasar. *Jurnal Basicedu*, 5(4), 2530–2540. <https://doi.org/10.31004/basicedu.v5i4.1229>
- Ekayana, A. A. G. (2023). *Development of Microlearning-Oriented Explainer Videos on Robotics Learning in Higher Education*. *Jurnal Ilmu Pendidikan (JIP) STKIP Kusuma Negara*, 15(1), 69–83. <https://doi.org/10.37640/jip.v15i1.1788>
- Fauziah, S., Mufit, F., Afrizon, R., & Hidayat, Z. (n.d.). *2021-9-30 Pillar of Physics Education* (Vol. 177, Issue 3).
- Gutierrez-Berraondo, J., Guisasaola, J., & Zuza, K. (2019). *Addressing undergraduate students' difficulty in learning the Generalized Work-Energy Principle in introductory Mechanics*. *Journal of Physics: Conference Series*, 1287(1). <https://doi.org/10.1088/1742-6596/1287/1/012024>
- Hasan, M., Milawati, Mp., Darodjat, Mp., & DrTuti Khairani Harahap, Ma. (n.d.). Makna Peran Media Dalam Komunikasi dan Pembelajaran MEDIA PEMBELAJARAN.
- Hermita, N., Putra, Z. H., Alim, J. A., Tang, J., Wijaya, T. T., Li, L., Pereira, J., & Tamur, M. (2021). The Hungry Ant: Development of Video-Based Learning on Polyhedron. *International Journal of Interactive Mobile Technologies*, 15(17), 18–32. <https://doi.org/10.3991/ijim.v15i17.23099>
- Horst, R., Dorner, R. (2019). *Mining Virtual Reality Nuggets A Pattern-Based*. (n.d.).
- Jannah, R. (2020). Pengembangan Media Video Pembelajaran.
- Jufriadi, A., & Andinisari, R. (2020). *JITT with assessment for learning: Investigation and improvement of students understanding of kinematics concept*. *Momentum: Physics Education Journal*, 94–101. <https://doi.org/10.21067/mpej.v4i2.4669>
- Kadek, I., Dana, W., Nitiasih, P. K., & Santosa, M. H. (2023). *IDEAS Journal of Language Teaching and Learning, Linguistics and Literature Developing Microlearning-Based English Video Materials for Junior High School*. 11(2), 1455–1465. <https://doi.org/10.24256/ideas.v11i2.4178>

- Kamal, M. (2020). *Title of article. Pendidikan Dan Humaniora*, 4(1), 10–18. <https://doi.org/10.36526/js.v3i2>
- Khofifa, L., Astra, I. M., & Permana, A. H. (2023). Video Fluida Statis Berbasis *Somatic, Auditory, Visual, Intellectual* (Savi) Berbantuan Platform Edpuzzle Untuk Melatihkan Kemampuan Literasi Sains. <https://doi.org/10.21009/03.1102.pf21>
- Khusaini, K., Sania, H. A., & Munfaridah, N. (2019). *The Influence of Self-Assessment on Cognitive Learning Outcomes of High School Students in the Topic of Linear Motion Kinematics. Jurnal Pembelajaran Fisika*, 11(1), 55–69. <https://doi.org/10.23960/jpf.v11.n1.202305>
- Kurniawati, I. D. (2019). *Development of Problem-Based Kinematics Teaching Material to Improve Students' Critical Thinking Skills. JIPF (Jurnal Ilmu Pendidikan Fisika)*, 4(1), 21. <https://doi.org/10.26737/jipf.v4i1.910>
- Laili, N., Fadillah, L., Zaini, M., & Lolishvili, T. (2022). *Teacher Training in the Development of Video-Based Learning Media by Using Bandicam Application. In International Journal of Community Engagement Payungi* (Vol. 2, Issue 2). <https://journal.payungi.org/index.php/ijcep>
- Malinda, M. (2019). *Learning methods of business plan subject to increase entrepreneurial skill, entrepreneurial intention and entrepreneurial spirit of students. International Journal of Information and Education Technology*, 9(11), 810–814. <https://doi.org/10.18178/ijiet.2019.9.11.1309>
- Miner-Romanoff, K., Rae, A., & Zakrzewski, C. E. (2019). *A Holistic and Multifaceted Model for Ill-Structured Experiential Problem-Based Learning: Enhancing Student Critical Thinking and Communication Skills. Journal of Problem Based Learning in Higher Education*, 7(1), 70–96. <https://doi.org/10.5278/ojs.jpblhe.v7i1.3341>
- Misesani, D., Janggo, W. O., & Wuwur, M. S. N. (2020). *Need Analysis in ADDIE Model to Develop Academic Speaking Materials. Ethical Lingua: Journal of Language Teaching and Literature*, 7(2), 438–446. <https://doi.org/10.30605/25409190.226>
- Moses Adeleke Adeoye, Kadek Adrian Surya Indra Wirawan, Made Shania Satya Pradnyani, & Nyoman Intan Septiarini. (2024). *Revolutionizing Education: Unleashing the Power of the ADDIE Model for Effective Teaching and Learning. JPI (Jurnal Pendidikan Indonesia)*, 13(1), 202–209. <https://doi.org/10.23887/jpiundiksha.v13i1.68624>
- Muharam, A., Mustikaati, W., Sanny, A., Yani, F., & Wiryanti, K. (2021). *The effect of using digital variety media on distance learning on increasing digital*

- literacy. *Journal of Physics: Conference Series*, 1987(1).  
<https://doi.org/10.1088/1742-6596/1987/1/012049>
- Muhartini, Mansur Amril, & Bakar Abu. (2023). Pembelajaran Kontekstual Dan Pembelajaran Problem Based Learning.  
<https://doi.org/https://doi.org/10.55606/lencana.v1i1.881>
- Nadeak, B., & Naibaho, L. (n.d.). 2020) Bernadetha Nadeak, Lamhot Naibaho. *Video-Based Learning on Improving Students' Learning Output.-Palarch's. In Journal of Archaralogy of Egypt/Egyptogy* (Vol. 17, Issue 2).
- Nicholas, T., James, G., & Robert, K. (2023). *Moral Aqidah Learning Using Video-Based Technology. Scientechno: Journal of Science and Technology*, 2(1), 1–16. <https://doi.org/10.55849/scientechno.v2i1.65>
- Nikkhoo, I., Ahmadi, Z., Akbari, M., Imannezhad, S., Ardekani, S. A., & Lashgari, H. (2023). *Microlearning for Today's Students: A Rapid Review of Essentials and Considerations. Med Edu Bull*, 4(11).  
<https://doi.org/10.22034/meb.2022.355659.1066>
- Nugraha, H., Rusmana, A., Khadijah, U., & Gemiharto, I. (2021). Microlearning Sebagai Upaya dalam Menghadapi Dampak Pandemi pada Proses Pembelajaran. *JINOTEP (Jurnal Inovasi Dan Teknologi Pembelajaran): Kajian Dan Riset Dalam Teknologi Pembelajaran*, 8(3), 225–236.  
<https://doi.org/10.17977/um031v8i32021p225>
- Nurfadhillah, S., Cahyani, A. P., Haya, A. F., Ananda, P. S., Widyastuti, T., & Tangerang, U. M. (2021). PENERAPAN MEDIA AUDIO VISUAL BERBASIS VIDEO PEMBELAJARAN PADA SISWA KELAS IV DI SDN CENGLONG 3. In *Jurnal Pendidikan dan Dakwah* (Vol. 3, Issue 2).  
<https://ejournal.stitpn.ac.id/index.php/pandawa>
- Nurmala Santi, R., Situmorang, R., Iriani, T., & Negeri Jakarta, U. (2024). Potensi Model Microlearning sebagai Strategi Pembelajaran Inovatif untuk Bahan Pembelajaran: Systematic Review. In *Didaktika: Jurnal Kependidikan* (Vol. 13, Issue 4). <https://jurnaldidaktika.org>
- Octavyanti, N. P. L. , & Wulandari, I. G. A. A. (2021). Video Pembelajaran Berbasis Pendekatan Kontekstual Pada Mata Pelajaran Matematika Kelas IV SD. *Jurnal Edutech Undiksha*, 8(1), 66–74.  
<https://ejournal.undiksha.ac.id/index.php/JEU/index>
- Paramitasari, W., Permana, H., & Nasbey, H. (2023). *Video Animasi Materi Gerak Parabola Berbasis Problem Based Learning Dilengkapi Dengan Phet Simulation*. <https://doi.org/10.21009/03.1102.pf12>

Parlindungan, D. P., Pakarti Mahardika, G., & Yulinar, D. (n.d.). *Prosiding Seminar Nasional Penelitian LPPM UMJ Website: <http://jurnal.umj.ac.id/index.php/semnaslit> E-ISSN: 2745-6080 Efektivitas Media Pembelajaran Berbasis Video Pembelajaran dalam Pembelajaran Jarak Jauh (PJJ) di SD Islam An-Nuriyah.* <http://jurnal.umj.ac.id/index.php/semnaslit>

Pebriantika, L., Rahmi, J., Adesti, A., & Eriyanti, E. (2024). Efektifitas Penerapan Metode Microlearning untuk Meningkatkan Hasil Belajar Mahasiswa. *Edu Cendikia: Jurnal Ilmiah Kependidikan*, 4(02), 767–773. <https://doi.org/10.47709/educendikia.v4i02.4870>

Permata, S. A. I., Sunarno, W., & Harlita, H. (2022). *Effect of the Problem Based Learning and Double Loop Problem Solving Learning Models on Problem Solving Ability in Term of Creative Thinking on Environmental Pollution Material.* *Jurnal Penelitian Pendidikan IPA*, 8(6), 2647–2653. <https://doi.org/10.29303/jppipa.v8i6.1996>

Prasetyo, E., Jatmiko, B., & Jufriansah, A. (2020). *Literature Study of Understanding the Physical Concepts of Straight Motion Materials Using the Gasing Method.* *Indonesian Review of Physics*, 3(2), 40. <https://doi.org/10.12928/irip.v3i2.2236>

Prayudha S., J. (2021). *Video Based Learning as a Media for Teaching English during Pandemic Covid-19.* *Journal of Language Intelligence and Culture*, 2(1), 1–11. <https://doi.org/10.35719/jlic.v2i1.53>

Putri, L. A., & Dewi, S. (n.d.). Media Pembelajaran Menggunakan Video Atraktif pada Materi Garis Singgung Lingkaran. In *MATHEMA JOURNAL E-ISSN* (Vol. 2, Issue 1).

Rahmatullah, A. S., Mulyasa, E., Syahrani, S., Pongpalilu, F., & Putri, R. E. (2022). Digital era 4.0. *Linguistics and Culture Review*, 6, 89–107. <https://doi.org/10.21744/lingcure.v6ns3.2064>

Román-Sánchez, D., De-La-Fuente-Rodríguez, J. M., Paramio, A., Paramio-Cuevas, J. C., Lepiani-Díaz, I., & López-Millan, M. R. (2023). *Evaluating satisfaction with teaching innovation, its relationship to academic performance and the application of a video-based microlearning.* *Nursing Open*, 10(9), 6067–6077. <https://doi.org/10.1002/nop2.1828>

Santosa, I., Iskandar, I., & Setiadi, S. (2025). *Microlearning Teks Prosedur Bahasa Inggris.*

Sari, Helsy, I., Aisyah, R., & Irwansyah, F. S. (2019). *Media Pembelajaran.* (n.d.).

- Sari, Y. I., Sumarmi, Utomo, D. H., & Astina, I. K. (2021). *The Effect of Problem Based Learning on Problem Solving and Scientific Writing Skills. International Journal of Instruction*, 14(2), 11–26. <https://doi.org/10.29333/iji.2021.1422a>
- Seibert, S. A. (2021). *Problem-based learning: A strategy to foster generation Z's critical thinking and perseverance. Teaching and Learning in Nursing*, 16(1), 85–88. <https://doi.org/10.1016/j.teln.2020.09.002>
- Shabadurai, Y., Chua, F. F., & Lim, T. Y. (2022). *Investigating the Employees' Perspectives and Experiences of Microlearning Content Design for Online Training. International Journal of Information and Education Technology*, 12(8), 786–793. <https://doi.org/10.18178/ijiet.2022.12.8.1685>
- Sharma, P. (2019). Digital Revolution of Education 4.0. *International Journal of Engineering and Advanced Technology*, 9(2), 3558–3564. <https://doi.org/10.35940/ijeat.A1293.129219>
- Sirwan Mohammed, G., Wakil, K., & Sirwan Nawroly, S. (n.d.). *The Effectiveness of Microlearning to Improve Students' Learning Ability* ARTICLEINFO ABSTRACT. [www.ijere.com](http://www.ijere.com)
- Sulistyaningrum, S. D., Iskandar, I., & Dewanti, R. (2022). P2M STKIP Siliwangi Analisis Pengembangan Materi Ajar Produksi Lisan Bahasa Inggris Berbasis Microlearning di SMP Kabupaten Agam. In *Jurnal Ilmiah UPT P2M STKIP Siliwangi* (Vol. 9, Issue 2).
- Surya, J., Suryani, Y., & Saregar, A. (2022). *Physics vlogs learning videos on parabolic motion on youtube channels based on scientific approach. In Online Learning in Educational Research* (Vol. 2, Issue 1). <https://www.journal.foundae.com/index.php/oler/index>
- Tabares, M. S., Vallejo, P., Montoya, A., Sanchez, J., & Correa, D. (2021). *SECA: A feedback rules model in a ubiquitous microlearning context. ACM International Conference Proceeding Series*, 136–142. <https://doi.org/10.1145/3460620.3460745>
- Torang Siregar. (2023). *Stages of Research and Development Model Research and Development (R&D). DIROSAT: Journal of Education, Social Sciences & Humanities*, 1(4), 142–158. <https://doi.org/10.58355/dirosat.v1i4.48>
- Umar, Purwanto, M. B., & Firdaus, A. (2023). *Research and Development: As the Primary Alternative to Educational Research Design Frameworks. Journal of English Language and Literature*, 8(1), 73–82. <https://doi.org/10.37110/jell.v8i1.172>

- Uskenat, K., & Yuliatun, T. (2023). Peningkatan Kompetensi Guru MA Al Ikhlas Berbah Melalui Pelatihan Microlearning dengan Google Sites. *PaKMas: Jurnal Pengabdian Kepada Masyarakat*, 3(2), 146–152. <https://doi.org/10.54259/pakmas.v3i2.2095>
- Wulandari, A. P., Salsabila, A. A., Cahyani, K., Nurazizah, T. S., & Ulfiah, Z. (2023). Pentingnya Media Pembelajaran dalam Proses Belajar Mengajar. *Journal on Education*, 05(02), 3928–3936.
- Xu, Y., Chen, C., Feng, D., & Luo, Z. (2022). A Survey of College Students on the Preference for Online Teaching Videos of Variable Durations in Online Flipped Classroom. *Frontiers in Public Health*, 10. <https://doi.org/10.3389/fpubh.2022.838106>
- Yuniarti, A., Putri Shalihah, A., Amanda, D., Laili Ramadhini, I., Virnanda, V., & Keguruan, F. (n.d.). *Memahami Media Untuk Efektifitas Pembelajaran* (Vol. 4, Issue 2).
- Yusal, Y., Maiyanti, A. A., & Puspitasari, M. D. M. (2023). The Application of Problem-Based Learning Assisted by Variety of Visual Media on Student's Physics Learning Outcomes. *Berkala Ilmiah Pendidikan Fisika*, 11(1), 20. <https://doi.org/10.20527/bipf.v11i1.14388>
- Zhang, D., Zhou, L., Briggs, R. O., & Nunamaker, J. F. (2006). Instructional video in e-learning: Assessing the impact of interactive video on learning effectiveness. *Information and Management*, 43(1), 15–27. <https://doi.org/10.1016/j.im.2005.01.004>