

## DAFTAR PUSTAKA

- Afida, A. N. (2021). *Pengembangan Perangkat Pembelajaran Materi Gelombang Bunyi dengan Model PJBL-STEM Terintegrasi TPACK untuk Meningkatkan Penguasaan Konsep dan Kemampuan Pemecahan Masalah Siswa SMA*.
- Akbar, S. (2013). *Instrumen Perangkat Pembelajaran*. Usaha Rosdakarya.
- Alvarez-Alvarado, M. S., Mora, C., & Cevallos-Reyes, C. B. (2019). Peer instruction to address alternative conceptions in Einstein's special relativity. *Revista Brasileira de Ensino de Fisica*, 41(4). <https://doi.org/10.1590/1806-9126-RBEF-2019-0008>
- Ariyanti, K. W., & Sulisworo, D. (2019). Integrasi Tpack Dalam Pengembangan Multimedia Berbasis Powtoon Pada Pembelajaran Dengan Pokok Bahasan Gelombang Berjalan Dan Gelombang Stasioner Di SMA Muhammadiyah 7 Yogyakarta. *Jurnal Riset Dan Kajian Pendidikan Fisika*, 6(2), 1. <https://doi.org/10.12928/jrkpf.vxix.xxxx>
- Artauli Hasibuan, F., & Abidin, J. (2019). PENINGKATAN PEMAHAMAN KONSEP FISIKA BERBASIS PhET SIMULATION MATA KULIAH FISIKA MODERN. *Prosiding Seminar Nasional Fisika Universitas Riau IV*, 4.
- Bakri, F., Ambarwulan, D., & Muliwati, D. (2018). Pengembangan Buku Pembelajaran Yang Dilengkapi Augmented Reality Pada Pokok Bahasan Gelombang Bunyi Dan Optik. *Gravity: Jurnal Ilmiah Penelitian Dan Pembelajaran Fisika*, 4(2).
- Bakri, F., Kusuma, K., & Permana, A. (2021a). TPACK Implementation in Physics Textbook: Practice Problem-Solving Skill in Newton's Law of Motion for Senior High School Students. *Journal of Physics: Conference Series*, 2019(1), 012057. <https://doi.org/10.1088/1742-6596/2019/1/012057>
- Bakri, F., Kusuma, R., & Permana, A. (2021b). TPACK and Augmented Reality in Kinematics Practicum Module: Forming HOTS Physics Education Students. *Journal of Physics: Conference Series*, 2019(1), 012041. <https://doi.org/10.1088/1742-6596/2019/1/012041>
- Cardoso, P. S. S., Nunes, M. C. S., Silva, G. P. S., Braghittoni, L. S., & Trindade, N. M. (2020). Conceptions of high school students on atomic models, radiation and radioactivity. *Physics Education*, 55.
- Carvalho, J. L., González, R. L., Casas García, L. M., & Juárez, J. C. (2019). *What Is Better to Study: The Printed Book or the Digital Book?: An Exploratory*

*Study of Qualitative Nature* (pp. 34–45). [https://doi.org/10.1007/978-3-030-01406-3\\_4](https://doi.org/10.1007/978-3-030-01406-3_4)

Chu, G., Humer, I., & Eckhardt, C. (2019). Special Relativity in Immersive Learning. *Communications in Computer and Information Science*, 1044, 16–29. [https://doi.org/10.1007/978-3-030-23089-0\\_2](https://doi.org/10.1007/978-3-030-23089-0_2)

Cutnell, J. D., & Johnson, K. W. (2012). *Physics* (9th ed.). John Wiley & Sons, Inc.

Dakhi, O., Jama, J., & Irfan, D. (2020). BLENDED LEARNING: A 21ST CENTURY LEARNING MODEL AT COLLEGE. *International Journal of Multi Science*, 1(8).

Dara Amin, B., Nurhayati, Azis, A., & Swandi, A. (2019). Identifikasi Potensi Penggunaan Bahan Ajar Fisika Berbasis Simulasi Komputer yang Interaktif dengan Model Inkuiri Terbimbing pada Konsep Abstrak: Studi Literatur and Survey. *Prosiding Seminar Nasional LP2M UNM: “Peran Penelitian Dalam Menunjang Percepatan Pembangunan Berkelanjutan Di Indonesia.”*

Dick, W., Carey, L., & Carey, J. O. (2015). *The Systematic Design of Instruction* (8th ed.). Pearson.

Dwipangestu, R., Mayub, A., & Rohadi, N. (2018). PENGEMBANGAN DESAIN MEDIA PEMBELAJARAN FISIKA SMA BERBASIS VIDEO PADA MATERI GELOMBANG BUNYI. *Jurnal Kumparan Fisika*, 1(1).

Gall, M. D., Gall, J. P., & Borg, W. R. (2003). *Educational Research: An Introduction* (7th Edition). Allyn and Bacon.

Halliday, D., Resnick, R., & Walker, J. (2014). *Fundamentals of Physics* (10th ed.). Wiley.

Hamida, S. (2021). The Validity of Contextual-Based Physics Learning Videos to Improve Students' 4C Skills. *International Journal of Progressive Sciences and Technologies (IJPSAT)*, 25(2), 175–184. <http://ijpsat.ijsh-journals.org>

Hansson, L., Leden, L., & Thulin, S. (2020). Book talks as an approach to nature of science teaching in early childhood education. *International Journal of Science Education*, 42(12), 2095–2111. <https://doi.org/10.1080/09500693.2020.1812011>

Ilmi, A. M., Sukarmin, & Sunarno, W. (2020a). Development of TPACK based-physics learning media to improve HOTS and scientific attitude. *Journal of Physics: Conference Series*, 1440(1). <https://doi.org/10.1088/1742-6596/1440/1/012049>

Ilmi, A. M., Sukarmin, & Sunarno, W. (2020b). Development of TPACK based-physics learning media to improve HOTS and scientific attitude. *Journal of Physics: Conference Series*, 1440(1). <https://doi.org/10.1088/1742-6596/1440/1/012049>

- Irdalisa. (2020). *Pelatihan Guru terhadap Peningkatan TPACK*.
- Knight, R. D. (2017). *Physics for Scientists and Engineers: A Strategic Approach 4/E*. Pearson.
- Koehler, M. J., & Mishra, P. (2009). *What is technological pedagogical content knowledge? Contemporary Issues in Technology and Teacher Education* (Vol. 9, Issue 1). <http://www.tpck.org/>.
- Komalasari, K. (2010). *Pembelajaran Kontekstual Konsep dan Aplikasi*. Refika Aditama.
- Kushner Benson, S. N., Ward, C. L., & Liang, X. (2015). The Essential Role of Pedagogical Knowledge in Technology Integration for Transformative Teaching and Learning. In *Technological Pedagogical Content Knowledge: Exploring, Developing, and Assessing TPACK*.
- Marsa, P. B., & Desnita, D. (2020). Analisis Media, Sumber Belajar, dan Bahan Ajar Yang Digunakan Guru Fisika SMA Materi Gelombang Di Sumatera Barat Ditinjau Dari Kebutuhan Belajar Abad 21. *JURNAL EKSAKTA PENDIDIKAN (JEP)*, 4(1), 81. <https://doi.org/10.24036/jep/vol4-iss1/422>
- MISHRA, P., & KOEHLER, M. J. (2006). Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge. *Teachers College Record*, 108(6), 1017–1054. <https://doi.org/10.1111/j.1467-9620.2006.00684.x>
- Morales López, A. I., & Tuzón Marco, P. (2022). Misconceptions, Knowledge, and Attitudes Towards the Phenomenon of Radioactivity. *Science and Education*, 31(2), 405–426. <https://doi.org/10.1007/s11191-021-00251-w>
- Muljono, P. (2010). Kegiatan Penilaian Buku Teks Pelajaran Pendidikan Dasar dan Menengah. In *Bulletin BSNP* (Vol. 2, Issue 1).
- Muslich, M. (2010). *Textbook Writing: Dasar-dasar Pemahaman, Penulisan, dan Pemakaian Buku Teks*. Ar-Ruzz Media.
- Nuraini, E., Budi Susila, A., & Sunaryo, S. (2022). PENGEMBANGAN E-MODUL FISIKA BERBASIS CMS WORDPRESS PADA MATERI KONSEP DAN FENOMENA KUANTUM SMA KELAS XII. *Prosiding Seminar Nasional Fisika SNF 2022, X*. <https://doi.org/10.21009/03.SNF2022>
- Prastowo, A. (2014). *Panduan Kreatif Membuat Bahan Ajar Inovatif*. Diva Press.
- Purnawati, W., Maison, M., & Haryanto, H. (2020). E-LKPD Berbasis Technological Pedagogical Content Knowledge (TPACK): Sebuah Pengembangan Sumber Belajar Pembelajaran Fisika. *Jurnal Ilmu Pendidikan*, 16(2), 126–133.
- Ramadhan, G., Dwijananti, P., & Wahyuni, S. (2018). Analisis Kemampuan Berpikir Tingkat Tinggi (High Order Thinking Skills) Menggunakan Instrumen Two Tier Multiple Choice Materi Konsep dan Fenomena Kuantum

Siswa SMA di Kabupaten Cilacap. *UPEJ*, 7(3).  
<http://journal.unnes.ac.id/sju/index.php/upej>

Redhana, W. (2019). PEMBELAJARAN KIMIA. *Jurnal Inovasi Pendidikan Kimia*, 13(1).

Rex, A. F., & Wolfson, R. (2010). *Essential College Physics* (1st ed.). Addison-Wesley/Pearson Education.

Sarmi, R. S., Ratnawulan, & Gusnedi. (2019). Learning media analysis in the development of integrated science teacher book with theme the energy in the life using type integrated of 21st century learning. *Journal of Physics: Conference Series*, 1185(1). <https://doi.org/10.1088/1742-6596/1185/1/012080>

Serway, R. A., & Vuille, C. (2017). *College Physics* (11th ed.). Cengage Learning.

Shulman, L. S. (1986). Those Who Understand: Knowledge Growth in Teaching. *American Educational Researcher*, 15(2), 4–14.

Siregar, S. D., Khairina, N., Media Pembelajaran Jurnal Pendidikan Fisika, P., Dohot Siregar, S., & Khairina, N. (2020). *PEMBUATAN MEDIA PEMBELAJARAN FISIKA BERBASIS HOTS UNTUK TINGKAT SMP*. 63(1).  
<http://jurnal.unimed.ac.id/2012/index.php/jpf>

Sitepu, B. P. (2012). *Penulisan Buku Teks Pelajaran*. PT Remaja Rosdakarya.

Sugiyono. (2013). *Metode Penelitian Kuantitatif Kualitatif dan R&D*. Alfabeta.

Suruf, M. (2021). Model Perencanaan Pembelajaran 2 (Model Dick and Carey, Model ADDIE). In *Perencanaan Pembelajaran di Sekolah Teori dan Implementasi*. Pradina Pustaka Grup.

Tarigan, H. G., & Tarigan, D. (2009). *Telaah Buku Teks Bahasa Indonesia* (Ed. rev.). Angkasa.

Tsivitanidou, O. E., Georgiou, Y., & Ioannou, A. (2021). A Learning Experience in Inquiry-Based Physics with Immersive Virtual Reality: Student Perceptions and an Interaction Effect Between Conceptual Gains and Attitudinal Profiles. *Journal of Science Education and Technology*, 30(6), 841–861.  
<https://doi.org/10.1007/s10956-021-09924-1>

Urbina, A., & Polly, D. (2017). Examining elementary school teachers' integration of technology and enactment of TPACK in mathematics. *International Journal of Information and Learning Technology*, 34(5), 439–451.  
<https://doi.org/10.1108/IJILT-06-2017-0054>

Utami, R. A. (2020). TPACK-Based E-Book for Learning Chemistry in Senior High School. *International Conference on Online and Blended Learning 2019*.



Young, H. D., & Freedman, R. A. (2016). *University Physics with Modern Physics* (14th ed.). Pearson.

