

DAFTAR PUSTAKA

- Afifah, M. N. (2019). Keterampilan Abad 21 dalam Pembelajaran Matematika Berbasis Proyek. *Doctoral Dissertation*.
- Ainsworth, S. (1999). The Functions of Multiple Representations. *Computers & Education Volume 33*(2-3), 131-152.
- Ainsworth, S. (2008). The Educational Value of Multiple-representations when Learning Complex Scientific Concepts. In J. K. Gilbert, M. Reiner, & M. Nakhleh, *Visualization: Theory and Practice in Science Education*. (pp. 191-208). Springer, Dordrecht.
- Aisyi, F. K., Elvyanti, S., Mulyana, E., & Gunawan, T. (2013). PENGEMBANGAN BAHAN AJAR TIK SMP MENGACU PADA PEMBELAJARAN BERBASIS PROYEK. *INVOTEC, IX*(2), 117-128.
- Akker, J. V., Branch, R. M., Gustafson, K., Nieveen, N., & Plomp, T. (1999). Design approaches and tools in education and training. Springer Science & Business Media.
- Altbach, P. G., Kelly, G. P., Petrie, H. G., & Weis, L. (1991). *Textbook in American Society*. Albany: State University of New York Press.
- Amrulloh, R., Yuliani, & Isnawati . (2013). Kelayakan Teoritis Media Pembelajaran Multimedia Interaktif Materi Mutasi Untuk SMA. *BioEdu, 2*(2), 134-136.
- Anderson, D., & Nashon, S. (2007). Predators of knowledge construction: Interpreting students' metacognition in an amusement park physics program. *Science Education, 91*(2), 298-320.
- Antonoli, M., Blake, C., & Sparks, K. (2014). Augmented reality applications in education. *The Journal of Technology Studies, 40*(2), 96-107.
- APO. (2019). *APO Productivity Databook*. Tokyo: Keio University Press Inc.
- Aquino, A. B. (2015). Self-efficacy on Technological, Pedagogical and Content Knowledge (TPACK) of Biological Science Pre-Service Teachers. *Asia Pacific Journal of Multidisciplinary Research, 3*(4), 150-157.
- Ardianto, D., & Rubini, B. (2016). Literasi Sains Dan Aktivitas Siswa Pada Pembelajaran IPA Terpadu Tipe Shared. *Unnes Science Education Journal, 5*(1).

- Arikunto, S., & Jabar, C. S. (2009). *Evaluasi Program Pendidikan : Pedoman teoritis praktis bagi mahasiswa dan praktisi pendidikan*. Jakarta: Bumi Aksara.
- Arslan, H. O., Cigdemoglu, C., & Moseley, C. (2012). A Three-Tier Diagnostic Test to Assess Pre-Service Teachers' Misconceptions about Global Warming, Greenhouse Effect, Ozone Layer Depletion, and Acid Rain. *International Journal of Science Education*, *34*(11), 1667–1686.
- Asim. (2001). *Sistematika Penelitian Pengembangan*. Malang: Lembaga Penelitian Universitas Negeri Malang.
- Azuma, R. T. (1997). A survey of augmented reality. *Presence: Teleoperators & Virtual Environments*, *6*(4), 355-385.
- Bacca, J., Baldiris, S., Fabregat, R., Graf, S., & Kinshuk. (2014). Augmented Reality Trends in Education: A Systematic Review of Research and Applications. *Educational Technology & Society*, *17* (4), 133–149.
- Bakri, F., Marsal, O., & Mulyati, D. (2019). Textbooks Equipped with Augmented Reality Technology for Physics Topic in High-School. *Jurnal Penelitian dan Pengembangan Pendidikan Fisika Volume 5*(2), 113-122.
- Barfield, W., & Caudell, T. (2001). *Fundamentals of Wearable Computers and Augmented Reality*. Mahwah, New Jersey, London: Laurence Erlbaum Associates.
- Beaty, W. J. (1987). The origin of misconceptions in optics? *American Journal of Physics*, *55*(10), 872-873.
- Birt, J., & Cowling, M. (2017). Toward future'mixed reality'learning spaces for STEAM education. *International Journal of Innovation in Science and Mathematics Education (formerly CAL-laborate International)*, *25*(4).
- Birt, J., & Cowling, M. (2017). Toward future'mixed reality'learning spaces for STEAM education. *International Journal of Innovation in Science and Mathematics Education*, *25*(4), 1-16.
- Bozkurt, E. (2014). TPACK levels of physics and science teacher candidates: Problems and possible solutions. *Asia-Pacific Forum on Science Learning and Teaching*, *15*(2).
- Brill, A. S., Listman, J. B., & Kapila, V. (2015). Using Robotics as the Technological Foundation for the TPACK Framework in K-12 Classrooms. *ASEE Annual Conference & Exposition*, (pp. 26-1679).

- BSNP. (2010). *Paradigma Pendidikan Nasional Abad XXI*. Badan Standar Nasional Pendidikan, Versi 1.0 Tahun 2010.
- Campanario, J. M. (2006). Using textbook errors to teach physics: examples of specific activities. *European Journal of Physics*, 27(4), 975.
- Care, E., Griffin, P., & Wilson, M. (2018). *Assessment and Teaching of 21st Century Skills*. Springer International Publishing.
- Carmigniani, J., Furht, B., Anisetti, M., Ceravolo, P., Damiani, E., & Ivkovic, M. (2011). Augmented reality technologies, systems and applications. *Multimed Tools Appl*, 51, 341–377.
- Chai, C. S., Koh, J. H., & Tsai, C. C. (2010). Facilitating Preservice Teachers' Development of Technological, Pedagogical, and Content Knowledge (TPACK). *Educational Technology & Society*, 13 (4), 63–73.
- Chai, C. S., Koh, J. H., Tsai, C. C., & Tan, L. L. (2011). Modeling primary school pre-service teachers' Technological Pedagogical Content Knowledge (TPACK) for meaningful learning with information and communication technology (ICT). *Computers & Education*, 57, 1184-1193.
- Chai, S. C., Koh, J. H., & Tsai, C. C. (2013). A review of technological pedagogical content knowledge. *Journal of Educational Technology & Society*, 16(2), 31-51.
- Chiappetta, E. L., & Koballa, T. R. (2010). *Science instruction in the middle and secondary schools: developing fundamental knowledge and skills 7 (Vol. 105)*. London: Pearson Education Inc.
- Clark, A., Dünser, A., & Grasset, R. (2012). An Interactive Augmented Reality Coloring Book. *IEEE Symposium on 3D User Interfaces (3DUI)*, 2012, 7-10.
- Cochran, K. F., DeRuiter, J. A., & King, R. A. (1993). Pedagogical content knowing: An integrative model for teacher preparation. *Journal of Teacher Education*, 44 (4), 263– 272.
- Crăciun, D., & Bunoiu, M. (2017). Boosting physics education through mobile augmented reality. *In AIP Conference Proceedings (Vol. 1916, No. 1, p. 050003)*. AIP Publishing LLC.
- Darna, N., & Herlina, E. (2018). Memilih Metode Penelitian yang Tepat: Bagi Penelitian Bidang Ilmu Manajemen. *Jurnal Ilmu Manajemen*, 287-292.
- Daryanto. (2017). *Pembelajaran abad 21*. Yogyakarta: Gava Media.

- Devetak, I., & Vogrinc, J. (2013). The criteria for evaluating the quality of the science textbooks. In *Critical Analysis of Science Textbooks* (pp. 3-15). Dordrecht: Springer.
- Dhamayanti, L. F., Putra, N. M., & Handayani, L. (2019). Analisis Struktur Penyajian dan Konten Nature of Science (NoS) pada Buku Teks Fisika SMA Pokok Bahasan Getaran Harmonis. *Unnes Physics Education Journal*, 8(1), 17-21.
- Dick, W., Lou Carey, & Carey, J. O. (2015). *The Systematic Design of Instruction, Eight Edition*. The United States of America: Pearson.
- Duenser, A., Bentall, D., & Walker, L. E. (2012). Creating Interactive Physics Education Books with Augmented Reality. *Proceedings of the 24th Australian computer-human interaction conference*, (pp. 107-114).
- Elfert, M. (2015). An Overview Of 21st Century Skills. Summary of 21st Century Skills For Students And Teachers, Pacific Policy Research Center. *European Journal of Education*, 50(1), 89-100.
- Fan, L., & Kaeley, G. S. (2000). The influence of textbooks on teaching strategies: An empirical study. *Mid-Western Educational Researcher*, 13(4), 2-9.
- Farisi, I. M. (2016). Developing the 21st-Century Social Studies Skills through Technology Integration. *Turkish Online Journal of Distance Education*, 17(1), 16-30.
- Fatmawati, A. (2016). PENGEMBANGAN PERANGKAT PEMBELAJARAN KONSEP PENCEMARAN LINGKUNGAN MENGGUNAKAN MODEL PEMBELAJARAN BERDASARKAN MASALAH UNTUK SMA KELAS X . *EduSains*, 4(2), 94-103.
- Fullan , M., & Scott, G. (2014). *New pedagogies for deep learning whitepaper: Education PLUS*. Seattle, Washington: Collaborative Impact SPC.
- Fullan, M., & Scott, G. (2014). *Education PLUS*. Seattle, Washington: Collaborative Impact SPC.
- Furht, B. (2011). *Handbook of augmented reality*. Florida: Springer Science & Business Media.
- Gall, M. D., Gall, J. P., & Borg, W. R. (2003). *Educational Research An Introduction*. New York: Longman.
- Gay, M. (2015). Tugas Dan Tantangan Guru: Membangun Kualitas Guru Menuju Pengembangan Pendidikan Bermutu. *EDUKASI-Jurnal Pendidikan*, 13(2).

- GCI. (2019). *The Global Competitiveness Report*.
- Giancoli, D. C. (2014). *Fisika: Prinsip dan Aplikasi Edisi ke 7 Jilid 1*. Jakarta: Erlangga.
- Goradia, T. (2018). "Role of Educational Technologies Utilizing the TPACK Framework and 21st Century Pedagogies: Academics' Perspectives". *IAFOR Journal of Education Volume*, 6(3), 43-61.
- Goradia, T. (2018). Role of Educational Technologies Utilizing the TPACK Framework and 21st Century Pedagogies: Academics' Perspectives. *IAFOR Journal of Education*, 6(3), 43-61.
- Graves, K. (2000). *Designing Language Course, A Guide for Teachers*. Boston, MA: Heinle & Heinle.
- Grigorovitch, A. (2014). Children's misconceptions and conceptual change in Physics Education: the concept of light. *Journal of Advances in Natural Sciences*, 1(1), 34-39.
- Gunhaart, A., & Srisawasdi, N. (2012). Effect of integrated compute-based laboratory environment on student's physics conceptual learning of sound wave properties. *Procedia-Social and Behavioral Sciences*, 46 (pp. 5750-5755). Thailand: Elsevier.
- Gürel, D. K., & Eryilmaz, A. (2013). A content analysis of physics textbooks as a probable source of misconceptions in geometric optics. *Hacettepe Üniversitesi Eğitim Fakültesi Dergisi (H. U. Journal of Education)*, 28(2), 234-245.
- Gustafson, K. L., & Branch, R. M. (2002). *Survey of instructional design models, fourth edition*. Syracuse, New York: ERIC.
- Hadi, S., Gunawan, I., & Dalle, J. (2018). *Statistika Inferensial Teori dan Aplikasinya*. Banjarmasin: Rajawali Pers.
- Hanafi. (2017). Konsep Penelitian R&D dalam Bidang Pendidikan. *Jurnal Kajian Keislaman*, 4(2), 129-150.
- Holbrook, J., & Rannikmae, M. (2007). The Nature of Science Education for enhancing Scientific Literacy. *International Journal of Science Education*, 29(11), 1347-1362.
- Ibáñez, M. B., & Kloos, C. D. (2018). Augmented reality for STEM learning: A systematic review. *Computers & Education*, 123, 109-123.

- Indonesia, R. (2016). *Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 8 Tahun 2016*.
- Jamun, Y. M. (2018). Dampak teknologi terhadap pendidikan. *Jurnal Pendidikan dan Kebudayaan Missio*, 48-52.
- Johnson, E. B. (2002). *Contextual Teaching and Learning: What It Is and Why It's Here to Stay*. London: Corwin Press, Inc.
- Jones , D. L., & Zollman, D. (2014). Understanding vision: students' use of light and optics resources. *European Journal of Physics*, 35(5), 055023.
- Kamiana, K. A., Kesiman, M. W., & Pradnyana, G. A. (2019). Pengembangan Augmented Reality Book Sebagai Media Pembelajaran Virus Berbasis Android. *Kumpulan Artikel Mahasiswa Pendidikan Teknik Informatika, KARMAPATI*, 8(2), 165-171.
- Kanginan, M. (2013). *Fisika 2 untuk SMA/MA Kelas XI Berdasarkan Kurikulum 2013 Edisi Revisi 2016*. Erlangga.
- Kerawalla, L., Luckin, R., Seljeflot, S., & Woolard, A. (2006). "Making it real": exploring the potential of augmented reality for teaching primary school science. *Virtual Reality*, 10(3), 163–174.
- Khoiri, N. (2014). Pengembangan Perangkat Penilaian Pembelajaran Menulis Karya Ilmiah (Bahasa Indonesia) untuk Siswa SMP. *NOSI*, 2(1), 37-49.
- Koehler , M. J., & Mishra, P. (2009). What Is Technological Pedagogical Content Knowledge? *Contemporary Issues in Technology and Teacher Education*, 9(1), 60-70.
- Kusuma, D. (2018). Analisis Keterbacaan Buku Teks Fisika SMK Kelas X. *Jurnal Pendidikan Fisika dan Sains*, 1(1), 14-21.
- Lee, K. (2012). Augmented reality in education and training. *TechTrends*, 56(2), 13-21.
- Lianghuo, F., Zhu, Y., & Miao, Z. (2013). Textbook research in mathematics education: Development status and direction. *ZDM Mathematics Education*, 45(5), 633-646.
- Magsino, R. M. (2014). Enhancing Higher Order Thinking Skills in a Marine Biology Class through Problem-Based Learning. *Asia Pacific Journal of Multidisciplinary Research*, 2(5), 1-6.

- Malmia, W., Makatita, S. H., Azwan, A., Magfirah, I., Tinggapi, H., & Umanailo, M. C. (2019). Problem-based learning as an effort to improve student learning outcomes. *Int. J. Sci. Technol. Res*, 8(9), 1140-1143.
- Mishra, P., & Koehler, M. J. (2006). Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge. *Teachers College Record*, 108(6), 1017-1054.
- Mohammad, S. (2019). *Pemanasan Global dan Masa Depan Bumi*. Alprin.
- Moro, C., Stromberga, Z., Raikos, A., & Stirling, A. (2017). The Effectiveness of Virtual and Augmented Reality in Health Sciences and Medical Anatomy. *Anatomical sciences education*, 10(6), 549-559.
- Muliyati, D., Bait, D. H., Bakri, F., & Permana, H. (n.d.). Physics Textbook Enriched Augmented Reality: Easy Way to Understand The Physical Concept. *Proceedings of the 7th Mathematics, Science, and Computer Science Education International Seminar*. MSCEIS 2019.
- Mulyono, P. (2007). Kegiatan Penilaian Buku Teks. *Bulletin BSNP*, Vol. II(1). *Bulletin BSNP, Volume 2(1)*.
- Musa, M. I. (2015). Dampak Pengaruh Globalisasi bagi Kehidupan Bangsa Indonesia. *Jurnal Pesona Dasar*.
- Muslich, M. (2010). *Text Book Writing: Dasar-dasar pemahaman, penulisan, dan pemakaian buku teks*. Yogyakarta: Ar-Ruzz Media.
- Mustaqim, I. (2016). Pemanfaatan Augmented Reality sebagai Media Pembelajaran. *Jurnal Pendidikan Teknologi dan Kejuruan*, 174-183.
- Nasution, S. (2008). *Kurikulum dan Pengajaran*. Jakarta: PT Bumi Aksara.
- Nurdini, Suryana, I., & Sari, I. M. (2018). Analisis Buku Ajar Fisika SMA Kelas XI Semester 1 di Kota Bandung Berdasarkan Keseimbangan Aspek Literasi Sains. *dalam Jurnal Wahana Pendidikan Fisika*, 3(1), 97-102.
- Nurdyansyah, & Widodo, A. (2015). *Inovasi Teknologi Pembelajaran*. Sidoarjo: Nizamia Learning Center.
- Nurhaidah, & Musa, M. I. (2015). Dampak Pengaruh Globalisasi Bagi Kehidupan. *Jurnal Pesona Dasar*.
- OECD. (2015). *Draft PISA 2015: Science Framework*. Retrieved from OECD: <https://www.oecd.org/pisa/pisaproducts/Draft%20PISA%202015%20Science%20Framework%20.pdf>

- OECD. (2018). *Programme for International Student Assessment (PISA)*. Retrieved from <https://gpseducation.oecd.org/CountryProfile?primaryCountry=IDN&freshold=10&topic=PI>
- Ontario. (2016). *Towards Defining 21st Century Competencies for Ontario: 21st Century Competencies*. Winter 2016 Edition.
- P21. (2011). *Framework for 21st century learning*. Retrieved from 21 Partnership for 21st Century Learning A Network of BatelleforKids: www.p21.org/our-work/p21-framework
- Palló, G. (2006). Encyclopedia as textbook. *Science & Education*, 15(7-8), 779-799.
- Peddie, J. (2017). *Augmented Reality Where We Will All Live*. Tiburon: Springer.
- Permana, A. H., Mulyati, D., Bakri, F., Dewi, B. P., & Ambarwulan, D. (2019). The development of an electricity book based on augmented reality technologies. In *Journal of Physics: Conference Series (Vol. 1157, p. 032027)*.
- Proctor, R. J., Albion, P. R., & Finger, G. (2010). Auditing the TK and TPACK Confidence of Pre-service Teachers: Are they ready for the profession? *Article in Australian Educational Comaputing*, 25(1), 8-17.
- Putriani, E. D., & Sarwi. (2014). Implementasi Strategi TPCK dengan Media Simulasi Berbasis Inkuiri Terbimbing pada Konsep Getaran dan Gelombang. *Unnes Physics Education Journal*, 3(2).
- Radu, I. (2014). Augmented reality in education: a meta-review and cross-media analysis. *Personal and Ubiquitous Computing*, 18(6).
- Rahayu, S. (2017). Technological Pedagogical Content Knowledge (TPACK) Integrasi ICT dalam Pembelajaran IPA Abad 21. *Prosiding Seminar Nasional Pendidikan IPA IX* (pp. 1-14). Malang: State University of Malang.
- Rahmawati, G. (2015). Buku teks pelajaran sebagai sumber belajar peserta didik di perpustakaan sekolah di SMAN 3 Bandung. *EduLib, Volume 5(1)*, 102-113.
- Redhana, I. W. (2019). Mengembangkan Keterampilan AAbad ke-21 dalam Pembelajaran Kimia. *Jurnal Inovasi Pendidikan Kimia*, 13(1).
- Republik Indonesia. (2016). *Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia No 8 Tahun 2016 tentang Buku yang digunakan dalam*

Sistem Pendidikan. Salinan Lampiran Petunjuk Teknis Pedoman Buku yang Digunakan oleh Satuan Pendidikan .

Republik Indonesia. (2017). *Undang-Undang Republik Indonesia Nomor 3 Tahun 2017 tentang Sistem Perbukuan*. Lembaran Negara Republik Indonesia Tahun 2017 Nomor 102.

Republik Indonesia. (2019). *Peraturan Pemerintah Republik Indonesia Nomor 75 Tahun 2019 tentang Peraturan Pelaksanaan Undang-Undang Nomor 3 Tahun 2017 tentang Sistem Perbukuan*. Lembaran Negara Republik Indonesia Tahun 2019 Nomor 193.

Restuti, M., Festiyed, & Hidayati. (2015). Penerapan CD Pembelajaran IPA Berbasis Siklus Belajar 5E. *Pillar of Physics Education, Volume 6(2)*, 49-56.

Richey, R. C., Klein, J. D., & Tracey, M. W. (2011). *The Instructional Design Knowledge Base: Theory, Research, and Practice*. New Yourk and London: Routledge.

Richey, R. C., Klien, J. D., & Tracey, M. W. (2011). *The Instructional Design Knowledge Base, Theory, Research, and Practice*. New York: Routledge.

Richey, R., & Klein, J. D. (2007). *Design and Development Research: Methods, Strategies, and Issues*. Mahwah, NJ: Lawrence Erlbaum Associates, Publishers.

Rosyid, A. (2016). Technological Pedagogical Content Knowledge: Sebuah Kerangka Pengetahuan Bagi Guru Indonesia di Era MEA. *Prosiding Seminar Nasional Inovasi Pendidikan* , (pp. 446-454).

Rufiana, I. S. (2015). LEVEL KOGNITIF SOAL PADA BUKU TEKS MATEMATIKA KURIKULUM 2013 KELAS VII UNTUK PENDIDIKAN MENENGAH. *Jurnal Dimensi Pendidikan dan Pembelajaran*, 3(2), 13-22.

Rusbiantoro, D. (2008). *Global Warming for Beginner*. Yigyakarta: Redaksi O2.

Sastrawati, E., Rusi, M., & Syamsurizal. (2011). Problem Based Learning, Strategi Metakognisi, dan Keterampilan Berpikir Tingkat Tinggi Siswa. *Tekno-Pedagogi, ISSN*, pp. 1-14.

Scott, C. L. (2015). The futures of learning 2: What kind of learning for the 21st century? *Educational Research and Foresight, UNESCO*.

- Seels, B. B., & Richey, R. C. (1994). *Instructional technology: The definition and domains of the field*. Washington, DC: Association for Educational.
- Shavelson, R. J., Ruiz-Primo, M. A., Li, M., & Ayala, C. C. (2003). *Evaluating new approaches to assessing learning*. California, Los Angeles: Center for the Study of Evaluation Report.
- Shulman, L. (1987). Knowledge and Teaching: Foundations of the New Reform. *Harvard Educational Review*, 57(1), 1–23.
- Shulman, L. S. (1986). Those who understand: Knowledge growth in teaching. *Educational researcher*, 15(2), 4-14.
- Simbolon, M., & Sinaga, P. (2015). Analisis Materi Ajar Fisika Yang Digunakan Di SMA Berdasarkan Level Penggunaan Multi Representasi Dan Pembekalan Keterampilan Pemecahan Masalah. *Simposium Nasional Fisika*.
- Sintawati, M., & Indriani, F. (2019). *Pentingnya Technological Pedagogical Content Knowledge (TPACK) Guru Di Era Revolusi Industri 4.0*. Seminar Nasional Pagelaran Pendidikan Dasar Nasional (PPDN).
- Sirakaya, M., & Cakmak, E. K. (2018). The effect of augmented reality use on achievement, misconception and course engagement. *Contemporary Educational Technology*, 9(3), 297-314.
- Sirakaya, M., & Cakmak, E. K. (2018). The Effect of Augmented Reality Use on Achievement, Misconception and Course Engagement. *CONTEMPORARY EDUCATIONAL TECHNOLOGY*, 9(3), 297-314.
- Sothayapetch, P., Lavonen, J., & Juut, K. (2013). An Analysis of Science Textbooks for Grade 6: The Electric Circuit Lesson. *Eurasia Journal of Mathematics, Science & Technology Education*, 9(1), 59-72.
- Squire, K., & Klopfer, E. (2007). Augmented Reality Simulations on Handheld Computers. *Journal of the Learning Sciences*, 16(3), 371–413.
- Srisawasdi, N., & Kroothkeaw, S. (2014). Supporting students' conceptual development of light refraction by simulation-based open inquiry with dual-situated learning model. *ournal of Computers in Education*, 1(1), 49-79.
- Sudarisman, S. (2015). Memahami hakikat dan karakteristik pembelajaran biologi dalam upaya menjawab tantangan abad 21 serta optimalisasi implementasi kurikulum 2013. *Florea: Jurnal Biologi dan Pembelajarannya*, Volume 2(1).

- Sudarwanto, & Tafakur. (2019). Developing Distributorless Ignition System Learning Media for Automotive Engineering Students. *Jurnal Taman Vokasi*, 7(1), 24-30.
- Sungkur, R. K., Panchoo, A., & Bhooyroo, N. K. (2016). Augmented reality, the future of contextual mobile learning. *Interactive Technology and Smart Education*, 123-146.
- Suryaman, M. (2006). Dimensi-Dimensi Kontekstual Di Dalam Penulisan Buku Teks Pelajaran Bahasa Indonesia. . *Diksi*, Volume 13(2) , 165-178.
- Syuhendri. (2017). A learning process based on conceptual change approach to foster conceptual change in Newtonian mechanics. *Journal of Baltic Science Education*, 16(2), 228-240.
- Syukra, I. A., Desnita, Asrizal, & Desnita. (2020). Kajian Buku Teks Pelajaran Fisika SMA Kelas XI Semester 2 untuk Memfasilitasi Keterampilan Proses Sains. *Pillar of Physics Education*, 13(1), 145-152.
- Tarigan, H. G. (2009). *Pengajaran Semantik*. Bandung: Angkasa.
- Treagust, D. F. (2008). The role of multiple representations in learning science: enhancing students' conceptual understanding and motivation. *Science Education at the Nexus of Theory and Practice*, 7-8.
- Trilling, B., & Fadel, C. (2009). *21st Century Skills: Learning for Life in our Times*. San Francisco: Jossey-Bass.
- Tural, G. (2015). Cross-Grade Comparison of Students' Conceptual Understanding with Lenses in Geometric Optics. *Science Education International*, 325-343.
- Uno, H. B., & Lamatenggo, N. (2016). *Landasan Pendidikan*. Jakarta: PT. Bumi Aksara.
- Utami, D. A., & Lestari, Y. (2020). Penyusunan Buku Ajar Teknik Penulisan Karya Ilmiah Bagi Mahasiswa Prodi DIII Administrasi Negara, FISH UNESA. *Jurnal Dimensi Pendidikan dan Pembelajaran*, 8(3).
- Utibe, & Stephen, A. S. (2015). Problems of Improvising Instructional Materials for The Teaching and Learning of Physics In Akwa Ibom State Secondary Schools, Nigeria. *British Journal of Education*, Volume 3(3), 27-35.
- Vallino, J. R. (1998). *Interactive Augmented Reality*. Rochester, New York: University of Rochester.

- Veletsianos, G., Doering, A., Scharber, C., & Miller, C. (2009). Using the technological, pedagogical, and content knowledge framework to design online learning environments and professional development. *Journal of Educational Computing Research*, 41(3), 319-346.
- Widiawati, L., Joyoatmojo, S., & Sudiyanto. (2018). Higher Order Thinking Skills as Effect of Problem Based Learning in the 21st Century Learning. *International Journal of Multicultural and Multireligious Understanding* Volume 5(3), 96-105.
- Widiyanto, A., Sujarwanto, E., & Prihaningtiyas, S. (2018). Analisis Pemahaman Konsep Peserta Didik dengan Instrumen Four Tier Diagnostic Test pada Materi Gelombang Mekanik. *Prosiding Seminar Nasional Multidisiplin, Volume 1*, (pp. 138-146).
- Wolfson, R. (2016). *Essential University Physics 3rd Edition, Volume Two*. Pearson Limited Edition.
- Wolfson, R. (2020). *Essential University Physics 4th Edition, Volume One*. Pearson Education.
- Wu, H. K., Lee, S. W.-Y., Chang, H. Y., & Liang, J. C. (2013). Current status, opportunities and challenges of augmented reality in education. *Computers & Education*, 62, 41-49.
- Wulandari, B., & Surjono, H. D. (2013). Pengaruh Problem Based Learning Terhadap Hasil Belajar Ditinjau dari Motivasi Belajar PLC di SMK. *Jurnal Pendidikan Vokasi* Volume 3(2), 178-191.
- Yaqin, M. K., Prastowo, S. H., & Harijanto, A. (2017). Identifikasi Pemahaman Konsep Fisika terhadap Pokok Bahasan Termodinamika pada Siswa SMA. *Prosiding Seminar Nasional Pendidikan Fisika 2017*, 2(1).
- Yohanes, S. (2009). *Fisika Modern*. Jakarta: PT. Kandel.
- Yuliyanti, T. E., & Rusilowati, A. (2014). Analisis Buku Ajar Fisika SMA Kelas XI Berdasarkan Muatan Literasi Sains di Kabupaten Tegal. *Unnes Physics Education Journal*, 3(2).
- Yusliani, E., Burhan, H. L., & Nafsih, N. Z. (2019). Analisis Integrasi Keterampilan Abad Ke-21 Dalam Sajian Buku Teks Fisika SMA. *Jurnal Eksata Pendidikan (JEP)*, Volume 3(2), 184-191.