

DAFTAR PUSTAKA

- Adams, W. K., Perkins, K. K., Podolefsky, N. S., Dubson, M., Finkelstein, N. D., & Wieman, C. E. (2019). New Instrument for Measuring Student Beliefs about Physics and Learning Physics : The Colorado Learning Attitudes about Science Survey. *Physical Review Special Topics - Physics Education Research*, 6(2), 020121.
- Amabile, T. M. (2013). *How to spark creativity*. *Harvard Business Review*, 91(3), 44-52.
- Arsanty, V. N., & Wiyatmo, Y. (2017). Pengembangan Perangkat Pembelajaran Fisika Berbasis Model Pembelajaran STS dalam Peningkatan Penguasaan Materi dan Pencapaian Kreativitas Peserta Didik SMA. *Jurnal Pendidikan Fisika*, 6(1), 23–32.
- Arends, R.I., & Kilcher, A. (2008). *Teaching for Student Learning: Becoming an Accomplished Teacher*. New York: Routledge
- Azwar, S. (2017). *Reliabilitas dan Validitas*. Yogyakarta: Pustaka Pelajar
- Burkhardt, G. (2003). engage 21st century skills for 21st century learners. California: North Central Regional Educational Laboratory and Metiri Group. https://doi.org/10.1111/j.1467-8535.2006.00602_10.x
- Black, P., & Wiliam, D. (2014). Assessment and Classroom Learning. *Assessment in Education : Principles, Policy & Practice*, 5(1), 7-74
- Blumenfeld, P. C., Soloway, E., Marx, R. W., Krajcik, J. S., Guzdial, M., & Palincsar, A. (2017). Motivating project-based learning: Sustaining the doing, supporting the learning. *Educational Psychologist*, 32(4), 227-241.
- Borg, W. R., & Gall, M. D. (2003). *Educational Research: An Introduction*. Pearson Education.
- Brookfield, S. D. (2017). Becoming a Critically Reflective Teacher. *John Wiley & Sons*.
- Chen, L., Wang, W., & Chang, H. Y. (2018). The Impact of Problem-Based Learning on Students' Understanding of Electrostatics. *Journal of Science Education and Technology*, 27(5), 438-447.
- Creswell, J. W., & Creswell, J. D. (2017). *Research Design : Qualitative, Quantitative, and Mixed Methods Approaches*. Sage Publications.
- Dick, W., Carey, L., & Carey, J. O. (2005). *The Systematic Design of Instruction*. Pearson Education.
- DeVellis, R. F. (2017). *Scale Development: Theory and Applications*. Sage Publications.
- Eshet-Alkalai, Y. (2016). Digital Literacy : A Conceptual Framework for Survival Skills in the Digital Era. *Journal of Educational Multimedia and Hypermedia*, 13(1), 93-106.
- Fraenkel, J. R., Wallen, N. E., & Hyun, H. H. (2012). *How to Design and Evaluate Research in Education*. McGraw-Hill.
- Gurung, B., Rutten, N., & Wiggers, R. (2020). Digital Inequality During the COVID-19 Pandemic: A Comprehensive Study of Students' Access to Technology and Its Educational Impact. *Research Square*

- Gravetter, F.J., & Wallnau, L.B. (2016). Statistics for the Behavioral Sciences (10th ed.). *Cengage Learning*.
- Hake R. Richard. 1999. Analyzing Change/Gain Score. *American Educational Research Association's Division Measurement and Research Methodology*. Diakses dari <http://www.physics.indiana.edu> pada tanggal 2 Mei 2012
- Hambleton, R. K., Swaminathan, H., & Rogers, H. J. (1991). *Fundamentals of Item Response Theory*. Sage Publications
- Halliday,D.,Walker,J. & Resnick, R. (2014). *Fundamentals Of Physics Tenth Edition*. Cleveland State University. USA
- Hikmawati,Fenti. (2018). *Metodologi Penelitian*.PT.Rajagrafindo Persada,Depok
- Hinkle, D.E., Wiersma, W., & Jurs, S.G. (2003). Applied Statistics for the Behavioral Sciences (5th ed.). *Houghton Mifflin*.
- Johnson, R. B., & Onwuegbuzie, A. J. (2004). Mixed Methods Research: A Research Paradigm Whose Time Has Come. *Educational Researcher*, 33(7), 14-26.
- Johnson, L., Adams Becker, S., Estrada, V., & Freeman, A. (2017). *NMC/CoSN Horizon Report: 2017 K–12 Edition*. The New Media Consortium.
- Johnson, A. (2018). "Enhancing Physics Education Through PBL." *Jurnal Pendidikan Fisika*, 10(2), 123-136.
- Kemendikbud. (2016). Panduan Penyusunan Bahan Ajar. *Direktorat Jenderal Guru dan Tenaga Kependidikan, Kementerian Pendidikan dan Kebudayaan*.
- Kim, H. (2022). "Comparative Study of Traditional and PBL Approaches." *Jurnal Pendidikan Fisika dan Teknologi*, 14(4), 321-335
- Kim, S., Park, S., & Park, H. (2019). Digital Literacy and its Impact on Physics Learning: A Review of Current Perspectives. *Physics Education*, 54(3), 035012.
- Liu, C. (2020). "Integrating Technology in Physics Teaching." *Jurnal Pendidikan Sains*, 8(1), 78-92.
- Lubart, T. L. (2016). The concept of creativity. In R. J. Sternberg (Ed.), Creativity (pp. 27-43). Cambridge University Press. Cambridge.
- Martin, A., Madigan, D., & Chockalingam, V. (2018). Digital Literacy and Digital Equity in the College Classroom. In *Emerging Tools and Applications of Virtual Libraries* (pp. 108-125). IGI Global.
- Mayer, R. E. (2015). Teaching and Learning of Physics. Cambridge University Press.
- Mayer, R. E. (2015). Teaching and Learning Science with Visualizations and Simulations. In *Handbook of Research on Educational Communications and Technology* (pp. 800–810). Springer.
- Mikrajuddin Abdulah.(2017). *Fisika Dasar II*. Intitut Teknologi Bandung.
- Morse, J. M., Barrett, M., Mayan, M., Olson, K., & Spiers, J. (2002). Verification Strategies for Establishing Reliability and Validity in Qualitative Research. *International Journal of Qualitative Methods*, 1(2), 13-22.
- Morse, J. M., Niehaus, L., & Wolfe, R. R. (2006). Mixed-Method Design: Principles and Procedures. Routledge.
- Nunnally, J. C., & Bernstein, I. H. (1994). Psychometric Theory. McGraw-Hill.

- OECD. (2016). *PISA 2015 Assesment and Analytical Framework: Science. Reading, Mathematic and Financial Literacy*, PISA, OECD Publishing, Paris. <http://dx.doi.org/10.1787/9789264255425-en>
- Palinkas, L. A., Horwitz, S. M., Green, C. A., Wisdom, J. P., Duan, N., & Hoagwood, K. (2015). Purposeful Sampling for Qualitative Data Collection and Analysis in Mixed Method Implementation Research. *Administration and Policy in Mental Health and Mental Health Services Research*, 42(5), 533–544.
- Pribadi, A. (2010). *Kreativitas: Konsep, Pengukuran, dan Pengembangannya*. Pustaka Pelajar: Yogyakarta
- Reigeluth, C. M., & Frick, T. W. (1999). *Formative Research: A Methodology for Creating and Improving Design Theories*. In C. M. Reigeluth (Ed.), *Instructional-Design Theories and Models: A New Paradigm of Instructional Theory* Volume 2, Lawrence Erlbaum Associates, USA
- Riwayani.(2019).Pengembangan Perangkat Pembelajaran Fisika Model PBLDengan Argument Mapping Berbantuan OIS Untuk Meningkatkan Kemampuan Argumentasi Ilmiah Dan Literasi Digital Peserta Didik SMA. *Tesis,Yogyakarta:Program Pascasarjana,Universitas Negeri Yogyakarta*.
- Savery, J. R., & Duffy, T. M. (2015). Problem Based Learning: An Instructional Model and its Constructivist Framework. *Educational Technology*, 35(5), 31-38.
- Setiawan, B., Utomo, A. P., & Susanto, H. (2020). Penerapan Simulasi PhET dalam Pembelajaran Fisika di SMA Indonesia. *Jurnal Pendidikan Fisika dan Keilmuan (JPKF)*, 6(2), 123-134.
- Smith, M. K., & Jones, F. H. M. (2018). Desain Pembelajaran dan Pengajaran Fisika: Panduan untuk Guru. *Pustaka Pelajar*.
- Smith, M. K., & Jones, F. H. (2018). The Role of Learning Design in Student Engagement with E-learning in Higher Education. *British Journal of Educational Technology*, 49(6), 997–1009.
- Smith, B. (2019). "Impact of PhET Simulations on Coulomb's Law Understanding." *Jurnal Teknologi Pendidikan*, 15(3), 45-58.
- Sudarsono. (2017). *Metodologi Penelitian Kuantitatif,Kualitatif,dan Mix Method,Edisi Kedua*.PT.Rajagrafindo Persada, Depok
- Sternberg, R. J. (2015). *Creativity and intelligence*. In R. J. Sternberg (Ed.), *Handbook of intelligence* (pp. 459-488). Routledge.
- Thiagarajan, S., Semmel, D., & Semmel, M.I. (1974). *Intructional Development for Training Teachers of Exceptional Children*. Indiana : Indiana University
- Teddlie, C., & Tashakkori, A. (2009). Foundations of Mixed Methods Research: Integrating Quantitative and Qualitative Approaches in the Social and Behavioral Sciences. *Sage Publications*.
- Walker, A. (2018). Challenges in implementing problem-based learning in science classrooms. *Journal of Biological Education*, 33(2), 90-94.
- Wang, D. (2021). "Assessment of Digital Literacy in Physics Education." *Jurnal Literasi Digital*, 5(2), 210-225.

- Wieman, C., Adams, W. K., Perkins, K. K., Trumper, R., LeMaster, R., Sáenz, A. F., & Harper, K. A. (2016). PhET: Simulations that enhance learning. *Science*, 322(5902), 682-683.
- Wieman, C., Adams, W. K., Loeblein, P., & Perkins, K. K. (2016). Teaching Physics Using PhET Simulations. *Physics Today*, 69(12), 48–53.
- Wright, B. D., & Stone, M. H. (1979). *Best Test Design: Rasch Measurement*. *MESA Press*.
- Zinke-Allmang,Martin. (2013). *Physics For The Life Sciences,Second Edition*.*Nelson Edication Ltd*. Toronto