

DAFTAR PUSTAKA

- Abdalla, M. E., & Gaffar, A. (2011). *Blueprints IN Health Profession Education Series Constructing A-Type Multiple Choice Questions (Mcqs): Step By Step Manual* (Issue January).
- Abdullah, H., Arsal, N., Hashim, F. H., Aziz, N. A., Amin, N., & Ali, S. H. (2012). Evaluation of Students' Achievement in the Final Exam Questions for Microelectronic (KKKL3054) using the Rasch Model. *Procedia - Social and Behavioral Sciences*, 60(c), 119–123. <https://doi.org/10.1016/j.sbspro.2012.09.356>
- Abdullah, N., & Lim, B. K. (2013). Parallel Circuit Conceptual Understanding Test (PCCUT). *Procedia - Social and Behavioral Sciences*, 90 (InCULT 2012), 431–440. <https://doi.org/10.1016/j.sbspro.2013.07.112>
- Aeni, S., Mudzakir, A., & Hernani. (2013). Desain Pembelajaran Elektronika Menggunakan Konteks Keris sebagai Kearifan Lokal Indonesia untuk Meningkatkan Literasi Sains Siwa SMA. *Jurnal Riset Dan Praktik Pendidikan Kimia*, 1 No 1, 44–51.
- Agustine, P. C. (2018). Pembangan Soal Matematika Model TIMSS di kelas IV Sekolah Dasar. 3(1), 1–17.
- Ajayi, V. O. (2018). Course Title : Science and Society Course of Study : PhD Science Education Title : Scientific Literacy Author : Victor Oluwatosin Ajayi. <https://doi.org/10.13140/RG.2.2.13345.92009> February.
- Alias, N., & Zainuddin, A. (2005). Innovation for better teaching and learning: Adopting the learning management system. *Malaysian Online Journal of Instructional Technology*, 2(2), 27–40.
- Allen, M. J., & Yen, W. M. (1979). *Introduction to Measurement Theory*. Brooks/Cole publishing company.
- Almaiah, M. A., Jalil, M. @. M. A., & Man, M. (2016). Empirical investigation to

- explore factors that achieve high quality of mobile learning system based on students' perspectives. *Engineering Science and Technology, an International Journal*, 19(3), 1314–1320. <https://doi.org/10.1016/j.jestch.2016.03.004>
- Alshomrani, S. (2012). Evaluation of technical factors in distance learning with respect to open source LMS. *Asian Transactions on Computers*, 02(01), 11–17.
<http://citeserx.ist.psu.edu/viewdoc/download?doi=10.1.1.675.4267&rep=rep1&type=pdf%0Ahttp://www.asian-transactions.org/Journals/Vol02Issue01/ATC/ATC-40232015.pdf>
- Andrich, D. (2010). Rasch models. In *International Encyclopedia of Education*. SAGE Publications Ltd. <https://doi.org/10.1016/B978-0-08-044894-7.00258-X>
- Anelli, C. (2011). Scientific literacy: What is it, are we teaching it, and does it matter? *American Entomologist*, 57(4), 235–244. <https://doi.org/10.1093/ae/57.4.235>
- Anonymous. (2017). *Faktor Analisis*.
- Apriani, M. (2017). *Buku Pengayaan dan Penilaian Mozaik IPA untuk SMP Kelas VIII*. Yudhistira.
- Azwar, S. (2012). *Dasar-Dasar Psikometri*. Pustaka Pelajar.
- Azwar, S. (2013). *Reliabilitas dan Validitas*. Pustaka Belajar.
- Barkaoui, K. (2019). Multifaceted Rasch Analysis for Test Evaluation. *Companion to Language Assessment*, November 2013, 1–46. <https://doi.org/10.1002/9781118411360.wbcla070>
- Blyznyuk, T. (2019). Defining and Conceptualizing Geocultural Scientific Literacy. *Journal of Vasyl Stefanyk Precarpathian National University*, 6(1), 43–49. <https://doi.org/10.15330/jpnu.6.1.43-49>
- Bond, T.G. and Fox, C. M. (2015). *Applying The Rasch Model, Fundamentals*

- Measurement in the Human Sciences. 3rd edition.* Routledge, Taylor and Francis Group.
- Bond, T. G., & Fox, C. M. (2015). *Applying the Rasch Model. In Applying the Rasch model: Fundamental Measurement in the Human Sciences* (3rd ed.). Routledge, Taylor and Francis Group.
- Boztunç Öztürk, N., Şahin, M. G., & İlhan, M. (2019). An analysis of scoring via analytic rubric and general impression in peer assessment. *Turkish Journal of Education, October*, 258–275. <https://doi.org/10.19128/turje.609073>
- Brown, G. T. L. (2009). The reliability of essay scores: The necessity of rubrics and moderation. *Tertiary Assessment and Higher Education Student Outcomes: Policy, Practice and Research, March*, 40–48.
- Budiarti, I. S. (2021). Analysis On Students' Scientific Literacy of Newton's Law and Motion System in Living Things. *Jurnal Pendidikan Sains Indonesia (Indonesian Journal of Science Education)*, 9(1), 36–51. <https://doi.org/10.24815/jpsi.v9i1.18470>
- C. S. Wiseman. (2012). A Comparison of the Performance of Analytic vs . Holistic Scoring Rubrics to Assess L2 Writing. *Iran. J. Lang. Test*, 2, no, 59–92.
- Cavus, N. (2015). Distance Learning and Learning Management Systems. *Procedia - Social and Behavioral Sciences*, 191, 872–877. <https://doi.org/10.1016/j.sbspro.2015.04.611>
- Cavus, N., & Alhih, M. S. (2014). Learning Management Systems Use in Science Education. *Procedia - Social and Behavioral Sciences*, 143, 517–520. <https://doi.org/10.1016/j.sbspro.2014.07.429>
- Christensen, R., & Knezek, G. (2017). Validating the Technology Proficiency Self-Assessment Questionnaire for 21st Century Learning (TPSA C-21). *Journal of Digital Learning in Teacher Education*, 33(1), 20–31. <https://doi.org/10.1080/21532974.2016.1242391>
- Christopher D. Desjardins, & Okan Bulut. (2018). *Handbook of Educational*

- Measurament and Psychometrics Using R* (J. M. Chambers & D. T. Lang (eds.)). Taylor.
- Churiyah, M., Sholikhan, S., Filanti, F., & Sakdiyyah, D. A. (2020). Indonesia Education Readiness Conducting Distance Learning in Covid-19 Pandemic Situation. *International Journal of Multicultural and Multireligious Understanding*, 7(6), 491. <https://doi.org/10.18415/ijmmu.v7i6.1833>
- Clements, D. H., Sarama, J. H., & Liu, X. H. (2008). Development of a measure of early mathematics achievement using the Rasch model: The Research-Based Early Maths Assessment. *Educational Psychology*, 28(4), 457–482. <https://doi.org/10.1080/01443410701777272>
- Colton, D., & Covert, R. W. (2007). *Designing and Constructing Instruments for Social Research and Evaluation*. Jossey-Basse.
- Conde, M. Á., García-Peñalvo, F. J., Rodríguez-Conde, M. J., Alier, M., Casany, M. J., & Piguillem, J. (2014). An evolving Learning Management System for new educational environments using 2.0 tools. *Interactive Learning Environments*, 22(2), 188–204. <https://doi.org/10.1080/10494820.2012.745433>
- Crocker, L., & Algina, J. (1986). *Introduction to Classical and Modern Test Theory*. Holt, Rinehart, and Winston, INC.
- Dawati, F. M., Yamtinah, S., Rahardjo, S. B., Ashadi, & Indriyanti, N. Y. (2017). Uji Validitas Computerized Two-Tier Multiple Choice (CTTMC) Melalui Focus Group Discussion (FGD) Untuk Mendiagnosa Kesulitan Belajar Siswa. *Seminar Nasional Pendidikan Sains Universitas Sebelas Maret*, 21, 260–265.
- Desiriah, E., & Setyarsih, W. (2021). *Tinjauan Literatur Pengembangan Instrumen Penilaian Kemampuan Berpikir Tingkat Tinggi (HOTS) Fisika di SMA*. 7.
- Desnita, Delina, M., & Sri Rahayu, Y. (2017). *Gelombang Bunyi*.
- Djaali, & Muljono, P. (2015). *Pengukuran dalam Bidang Pendidikan* (p. 65).

Intramedia.

- Djaali, & Muljono, P. (2012). *Pengukuran dalam Bidang Pendidikan*. Grasindo.
- Docktor, J. L., Strand, N. E., Mestre, J. P., & Ross, B. H. (2015). Conceptual problem solving in high school physics. *Physical Review Special Topics - Physics Education Research*, 11(2), 1–13. <https://doi.org/10.1103/PhysRevSTPER.11.020106>
- Duffy, N. (2016). *Literacy , Scientific Literacy and the Learning Needs of ESL Students* Author : Natalie A Duffy. November 2011. <https://doi.org/10.13140/RG.2.2.33252.58242>
- Elisa, Mustafa, & Syukri, M. (2018). *Konsep dan Aplikasi Gelombang dalam Fisika*. Bandar Publishing.
- Fakhriyah, F., Masfuah, S., Roysa, M., Rusilowati, A., & Rahayu, E. S. (2017). Student's science literacy in the aspect of content science? *Jurnal Pendidikan IPA Indonesia*, 6(1), 81–87. <https://doi.org/10.15294/jpii.v6i1.7245>
- Gable, robert k., & Wolf, M. B. (1993). *Instrument Development in Effective Domain*. Kluwer Academic Publisher.
- Gen, M. (2015). The Effect of Scientific Studies on Students' Scientific Literacy and Attitude. *Ondokuz Mayıs Üniversitesi Eğitim Fakültesi Dergisi*, 34(1), 141–152. <https://doi.org/10.7822/omuefd.34.1.8>
- Glaze, A. L. (2018). Teaching and learning science in the 21st century: Challenging critical assumptions in post-secondary science. *Education Sciences*, 8(1), 1–8. <https://doi.org/10.3390/educsci8010012>
- Guilford, J. P., & Fruchter, B. (1956). *Fundamental Statistics in Psychology and Education*. McGraw-Hill Book.
- Gunawan, I., & Paluti, A. R. (2017). Taksonomi Bloom – Revisi Ranah Kognitif: Kerangka Landasan Untuk Pembelajaran, Pengajaran, Dan Penilaian. *E-Journal.Unipma*, 7(1), 1–8. <http://e-journal.unipma.ac.id/index.php/PE>

- Hadi, S., & Novaliyosi. (2019). TIMSS Indonesia (Trends in International Mathematics and Science Study). *Prosiding Seminar Nasional & Call For Papers Program Studi Magister Pendidikan Matematika Universitas Siliwangi*, 562–569.
- Heinemann, A. W., Michael Linacre, J., Wright, B. D., Hamilton, B. B., & Granger, C. (1994). Measurement characteristics of the Functional Independence Measure. *Topics in Stroke Rehabilitation*, 1(3), 1–15. <https://doi.org/10.1080/10749357.1994.11754030>
- Holbrook, J., & Rannikmae, M. (2009). The meaning of scientific literacy. *International Journal of Environmental and Science Education*, 4(3), 275–288.
- Hsiao, Y. Y., Shih, C. L., Yu, W. H., Hsieh, C. H., & Hsieh, C. L. (2015). Examining unidimensionality and improving reliability for the eight subscales of the SF-36 in opioid-dependent patients using Rasch analysis. *Quality of Life Research*, 24(2), 279–285. <https://doi.org/10.1007/s11136-014-0771-z>
- Hsueh, I. P., Wang, W. C., Sheu, C. F., & Hsieh, C. L. (2004). Rasch Analysis of Combining Two Indices to Assess Comprehensive ADL Function in Stroke Patients. *Stroke*, 35(3), 721–726. <https://doi.org/10.1161/01.STR.0000117569.34232.76>
- Huberty, J., Vener, J., Gao, Y., Matthews, J. L., Ransdell, L., & Elavsky, S. (2013). Developing an instrument to measure physical activity related self-worth in women: Rasch analysis of the Women's Physical Activity Self-Worth Inventory (WPASWI). *Psychology of Sport and Exercise*, 14(1), 111–121. <https://doi.org/10.1016/j.psychsport.2012.07.009>
- Huck, S. W. (2007). *Reading Statistics and Research*. Allyn & Bacon.
- Ibnu, M., Indriyani, B., Husnaini, & Guntra, Y. (2019). *Aplikasi Rasch Model: Pengembangan Instrumen Tes untuk Mengukur Miskonsepsi Mahasiswa pada Materi Mekanika*. 2(1), 205–210.

- Jafari Navimipour, N., & Zareie, B. (2015). A model for assessing the impact of e-learning systems on employees' satisfaction. *Computers in Human Behavior*, 53, 475–485. <https://doi.org/10.1016/j.chb.2015.07.026>
- John, D. S. (2021). *Strategies to Minimise Students ' Weaknesses in Discussion Essay*. 7(March), 106–114.
- Jonsson, A., & Svingby, G. (2007). The use of scoring rubrics: Reliability, validity and educational consequences. *Educational Research Review*, 2(2), 130–144. <https://doi.org/10.1016/j.edurev.2007.05.002>
- Judge, D. S., & Murray, B. (2017). Student and Faculty Transition to a New Online Learning Management System. *Teaching and Learning in Nursing*, 12(4), 277–280. <https://doi.org/10.1016/j.teln.2017.06.010>
- Jufri, A. W., Setiadi, D., & Sripatmi. (2016). Scientific reasoning ability of prospective student teacher in the excellence program of mathematics and science teacher education in University of Mataram. *Jurnal Pendidikan IPA Indonesia*, 5(1), 69–74. <https://doi.org/10.15294/jpii.v5i1.5792>
- K. L. Gwet. (2012). *Handbook of Inter-rater reliability*.
- Kaba, Y., & Şengül, S. (2015). Developing the Rubric for Evaluating Problem Posing (REPP). *International Online Journal of Educational Sciences*, 8(1). <https://doi.org/10.15345/ijoes.2016.01.002>
- Kanigan, M. (2019). *Mandiri IPA Fisika untuk SMP/MTS Kelas VIII*. Erlangga.
- Kerlinger, F. N. (2004). *Asas- Asas Penelitian Behavioral*. Gajah Mada University Press.
- Kurnia, F., . Z., & Fathurohman, A. (2014). Analisis Bahan Ajar Fisika Sma Kelas Xi Di Kecamatan Indralaya Utara Berdasarkan Kategori Literasi Sains. *Jurnal Inovasi Dan Pembelajaran Fisika*, 1(1), 43–47. <https://doi.org/10.36706/jipf.v1i1.1263>
- Kurniawan, Y., & Muliyani, R. (2019). A Development Design of Digital Story

- Conceptual Change-Oriented in Physics Subject. *JIPF (Jurnal Ilmu Pendidikan Fisika)*, 4(2), 110. <https://doi.org/10.26737/jipf.v4i2.1153>
- Lailiyah, L., Supriyati, Y., & Komarudin, K. (2018). Analysis of Measures Items in Development of Instruments Self-Assessment (Rasch Modeling Application). *Jisae: Journal of Indonesian Student Assessment and Evaluation*, 4(1), 1–9. <https://doi.org/10.21009/jisae.041.01>
- Lee, E. Y., & Jeon, Y. J. J. (2020). The difference of user satisfaction and net benefit of a mobile learning management system according to self-directed learning: An investigation of cyber university students in hospitality. *Sustainability (Switzerland)*, 12(7), 1–13. <https://doi.org/10.3390/su12072672>
- Linacre, J. M. (2004). Rasch Model Estimation: Further Topics. *Journal of Applied Measurement*, 5(1), 95–110.
- Linacre, J. M. (2012). *A user's guide to Winsteps Ministeps Rasch-model computer programs [version 3.74.0]*.
- Litwin, M. S. (1995). *How to Measure survey Reliability and Validity*. Sage Publication.
- Mardapi, D. (2012). *Teknik Penyusunan Instrumen Tes dan Nontes*. Mitra Cendikia Press.
- Mardapi, D. (2012). *Pengukuran, Penilaian dan Evaluasi Pendidikan*. Nuha Medika.
- Margono, G. (2005). *Pengembangan Instrumen Pengukur Afeksi terhadap Matematika*. niversitas Negeri Jakarta.
- Margono, G. (2013). The Development of Instrument for Measuring Attitudes toward Statistics Using Semantic Differential Scale. *2nd International Seminar on Quality and Affordable Education, Isqae*, 241–250. <https://educ.utm.my/da/wp-content/uploads/2013/11/341.pdf>
- Masruri, R. (2017). Penyusunan Instrumen Penilaian Pengetahuan. *Prosiding*

- Seminar Nasional Profesionalisme, II(1), 49–63.*
- McCoach, D. B., Gable, R. K., & Madura, J. P. (2013). *Instrument Development in the Affective Domain: School and Corporate Applications*. In *Instrument Development in the Affective Domain: School and Corporate Applications*. 3. <https://doi.org/https://doi.org/10.1007/978-1-4614-7135-6>
- Mincheva, K., & Planska-Simeonova, K. (2019). Scientific Research in the Field of Visual Competency. *EDULEARN19 Proceedings*, 1(February 2020), 5110–5117. <https://doi.org/10.21125/edulearn.2019.1263>
- Misbah, I. ., & Sumintono, B. (2014). *Instrument Development and Validation “Students’ Perception on Teachers Morality” in Indonesia using Rasch Model*, presented in National Seminar on “Development of Valid Character Assessment at Faculty of Psychology of Universitas Muhammadiyah Surakarta. I.
- Moser, C. A., & Kalton, G. (1989). *Survey methods in social investigation*. Gower.
- Muijs D. (2011). *Doing Quantitative Research in Education with SPSS*. SAGE Publications Ltd.
- Muttaqin, M. Z., & Kusaeri, K. (2017). Pengembangan Instrumen Penilaian Tes Tertulis Bentuk Uraian Untuk Pembelajaran Pai Berbasis Masalah Materi Fiqh. *Jurnal Tatsqif*, 15(1), 1–23. <https://doi.org/10.20414/j-tatsqif.v15i1.1154>
- Naga, Dali S. (2013). *Teori Skor pada Pengukuran Mental*. Nagarani Citrayasa.
- Naga, Dali Santun. (2012). *Teori Skor pada Pengukuran Mental* (2nd ed.). PT. Nagarani Citrayasa.
- Namaziandost, E. (2019). The Assessment of Oral Proficiency through Holistic and Analytic Techniques of Scoring: A Comparative Study. *Applied Linguistics Research Journal, May*. <https://doi.org/10.14744/alrj.2019.83792>
- Ni’mah, F. (2019). Research trends of scientific literacy in Indonesia: Where are

- we? *Jurnal Inovasi Pendidikan IPA*, 5(1), 23–30.
<https://doi.org/10.21831/jipi.v5i1.20862>
- Nida, N., Patmawati, H., & Muhtadi, D. (2021). *Kerangka Penilaian Taksonomi Trends In International Mathematics And Science Study*. 3(1), 34–42.
- Ningdyah, A. E. M., Greenwood, K. M., & Kidd, G. (2018). A Training-Model Scale's Validity and Reliability Coefficients: Expert Evaluation in Indonesian Professional Psychology Programs. *Makara Human Behavior Studies in Asia*, 22(1), 56. <https://doi.org/10.7454/hubs.asia.2190318>
- Nja, C. O. (2019). Scientific literacy of undergraduate Science Education students in the University of Calabar Cross River State Nigeria. *Quest Journals: Journal of Research in Humanities and Social Science*, 7(5), 35–39.
<https://www.researchgate.net/publication/333614087>
- Nurjanah, & Marlianingsih, N. (2015). Analisis Butir Soal Pilihan Ganda Dari Aspek Kebahasaan. *Faktor Jurnal Ilmu Kependidikan*, 2(1), 69–78.
- Nurul, mas'ud waqiah. (2020). Analysis of Interest and Scientific Literacy Skills of Senior High School in Learning Physics. *Jurnal Kependidikan Fisika*, 53(9), 1689–1699.
- OECD. (2016). *Excellence And Equity In Education Volume: Vol. I*.
<https://doi.org/10.1787/9789264266490-5-en>
- OECD. (2017). Results from PISA 2015: Indonesia. In *OECD*.
<https://www.oecd.org/pisa/PISA-2015-Indonesia.pdf>
- OECD. (2019). PISA 2018 Results. Combined Executive Summaries. In *OECD* (Vol. 53, Issue 9). www.oecd.org/about/publishing/corrigenda.htm.
- Patrícia, M., & Zvára, K. (2007). *Kybernetika Terms of use : Tolerance Automata* *. 43(3), 315–326.
- Perera, C. J., Sumintono, B., & Jiang, N. (2018). The Psychometric Validation Of The Principal Practices Questionnaire Based On Item Response Theory.

International Online Journal of Educational Leadership, 2(1), 21–38.
<https://doi.org/10.22452/ijel.vol2no1.3>

- Pretz, C. R., Kean, J., Heinemann, A. W., Kozlowski, A. J., Bode, R. K., & Gebhardt, E. (2016). A Multidimensional Rasch Analysis of the Functional Independence Measure Based on the National Institute on Disability, Independent Living, and Rehabilitation Research Traumatic Brain Injury Model Systems National Database. *Journal of Neurotrauma*, 33(14), 1358–1362. <https://doi.org/10.1089/neu.2015.4138>
- Priyadi, R., & Suryanti, K. (2017). Pengembangan Instrumen Tes Pemahaman Konsep Hukum Gravitasi Universal. *Jurnal Riset Pendidikan Fisika*, 2(2), 36–41.
- Purwanto. (2015). *Metodologi Penelitian Kuantitatif*. Pustaka Belajar.
- Putri, R. S., Purwanto, A., Pramono, R., Asbari, M., Wijayanti, L. M., & Hyun, C. C. (2020). Impact of the COVID-19 pandemic on online home learning: An explorative study of primary schools in Indonesia. *International Journal of Advanced Science and Technology*, 29(5), 4809–4818.
- Quintal, V. A., & Murphy, J. (2012). LMS teaching versus Community Learning: A call for the latter. *Asia Pacific Journal of Marketing and Logistics*, 24(5), 826–841. <https://doi.org/10.1108/13555851211278529>
- Rachmat, N. A., & Arfiandhani, P. (2019). “I Use Multiple-Choice Question in Most Assessment I Prepared”: Efl Teachers’ Voice on Summative Assessment. *ETERNAL (English, Teaching, Learning, and Research Journal)*, 5(1), 163. <https://doi.org/10.24252/eternal.v5i1.2019.a13>
- Rasmitadila, Aliyyah, R. R., Rachmadtullah, R., Samsudin, A., Syaodih, E., Nurtanto, M., & Tambunan, A. R. S. (2020). The perceptions of primary school teachers of online learning during the covid-19 pandemic period: A case study in Indonesia. *Journal of Ethnic and Cultural Studies*, 7(2), 90–109. <https://doi.org/10.29333/ejecs/388>

- Retnawati, H. (2016). Proving content validity of self-regulated learning scale (The comparison of Aiken index and expanded Gregory index). *Research and Evaluation in Education*, 2(2), 155–164. <https://doi.org/http://dx.doi.org/10.21831/reid.v2i2.11029> *Corresponding
- Rostikawati, D. A., & Permanasari, A. (2016). Rekonstruksi bahan ajar dengan konteks socio-scientific issues pada materi zat aditif makanan untuk meningkatkan literasi sains siswa. *Jurnal Inovasi Pendidikan IPA*, 2(2), 156–164. <https://doi.org/10.21831/jipi.v2i2.8814>
- Rusilowati, A., Kurniawati, L., Nugroho, S. E., & Widiyatmoko, A. (2016). Developing an instrument of scientific literacy assessment on the cycle theme. *International Journal of Environmental and Science Education*, 11(12), 5718–5727.
- Russell, waugh. (2009). *Appliaction of Rasch Measurment In Education*. Nova Science Publishers, Inc.
- S. Surapranata. (2015). *Analisis, validitas, reliabilitas dan interpretasi hasil tes*.
- Sadler, T. D., & Zeidler, D. L. (2009). Scientific literacy, PISA, and socioscientific discourse: Assessment for progressive aims of science education. *Journal of Research in Science Teaching*, 46(8), 909–921. <https://doi.org/10.1002/tea.20327>
- Sahrani, R. (2019). Faktor-Faktor Karakteristik Kebijaksanaan Menurut Remaja. *Jurnal Psikologi Sosial*, 17(1), 36–45. <https://doi.org/10.7454/jps.2019.6>
- Sally, V. K. (2016). *IPA Terpadu untuk SMP Kelas VIII*. Yudhistira.
- Samritin. (2016). DEVELOPING AN ASSESSMENT INSTRUMENT OF JUNIOR HIGH SCHOOL STUDENTS' HIGHER ORDER THINKING SKILLS IN MATHEMATICS. *Research and Evaluation in Education*, 2(1), 92–107.
- Santoso, S. (2012). *SPSS Statistik Multivariate*. Elex Media Komputindo Gramedia.

- Saputri, R., & Hariyadi, B. (2021). *Pengembangan Soal Higher Order Thinking Skills Berbasis Budaya Jambi*. 05(02), 1793–1806.
- Segarra, V. A., Hughes, N. M., Ackerman, K. M., Grider, M. H., Lyda, T., & Vigueira, P. A. (2018). Student performance on the Test of Scientific Literacy Skills (TOSLS) does not change with assignment of a low-stakes grade. *BMC Research Notes*, 11(1), 1–5. <https://doi.org/10.1186/s13104-018-3545-9>
- Septiani, D., Widiyawati, Y., & Nurwahidah, I. (2019). Pengembangan Instrumen Tes Literasi Sains Berbasis Pisa Pada Aspek Menjelaskan Fenomena Ilmiah Untuk Siswa Kelas VII. *Science Education and Application Journal*, 1(2), 46. <https://doi.org/10.30736/seaj.v1i2.144>
- Shwartz, Y., Ben-Zv, R., & Hofstein, A. (2005). The importance of involving high-school chemistry teachers in the process of defining the operational meaning of ‘chemical literacy.’ *International Journal of Science Education*, 27(3), 323–344. <https://doi.org/10.1080/0950069042000266191>
- Sinnema, C., Meyer, F., & Aitken, G. (2017). Capturing the Complex, Situated, and Active Nature of Teaching Through Inquiry-Oriented Standards for Teaching. *Journal of Teacher Education*, 68(1), 9–27. <https://doi.org/10.1177/0022487116668017>
- Souza, A. C. de, Alexandre, N. M. C., & Guirardello, E. de B. (2017). Propriedades psicométricas na avaliação de instrumentos: avaliação da confiabilidade e da validade. *Epidemiologia e Servicos de Saude : Revista Do Sistema Unico de Saude Do Brasil*, 26(3), 649–659. <https://doi.org/10.5123/S1679-49742017000300022>
- Sprinkle, S. D., Lurie, D., Insko, S. L., Atkinson, G., Jones, G. L., Logan, A. R., & Bissada, N. N. (2002). Criterion validity, severity cut scores, and test-retest reliability of the Beck Depression Inventory-II in a university counseling center sample. *Journal of Counseling Psychology*, 49(3), 381–385. <https://doi.org/10.1037/0022-0167.49.3.381>
- Srirahayu, R. R. Y., & Arty, I. S. (2018). Validitas dan reliabilitas instrumen

- asesmen kinerja literasi sains pelajaran Fisika berbasis STEM. *Jurnal Penelitian Dan Evaluasi Pendidikan*, 22(2), 168–181.
<https://doi.org/10.21831/pep.v22i2.20270>
- Sudaryono, Rahardja, U., Aini, Q., Isma Graha, Y., & Lutfiani, N. (2019). Validity of Test Instruments. *Journal of Physics: Conference Series*, 1364(1).
<https://doi.org/10.1088/1742-6596/1364/1/012050>
- Sudijono, A. (2012). *Pengantar Evaluasi Pendidikan*. PT. Grafindo Persada.
- Sugiyono. (2015). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, kualitatif, dan R&D*. Alfabeta.
- Sumintono, B., & Widhiarso, W. (2014). *Application of Rasch Model for Social Science Research* (B. Trim (ed.)). Tim Komunikasi Publishing House.
- Sumintono, B., Widhiarso, W., & Mada, U. G. (2015). *Aplikasi Pemodelan Rasch pada Assesment Pendidikan* (Issue October). Trim Komunikata.
- Sumintono, B., & Widhiarso, W. (2014). *Application of Rasch Model in Scientific Research, revised edition*. Tim Komunikata Publishing House.
- Supriyati, Yeti, & Dudung, A. (2017). *Penilaian Kelas*. KARIMA (Karya Ilmu Media Aulia).
- Supriyati, Yetti, Zakiyah, Z., & Astra, I. M. (2021). *Essay questions on dynamic fluid physics material to measure intellection thinking ability of grade XI high school students* *Essay Questions on Dynamic Fluid Physics Material to Measure Intellection Thinking Ability of Grade XI High School Students*. 020016(March), 2–8.
- Susongko, P., Kusuma, M., Arfiani, Y., Samsudin, A., & Aminudin, A. (2020). Develop and Analyze Instruments of Scientific Literacy Skills with Integrated Science (SLS-IS) Based on the 2015 PISA Standard via Rasch Model on Tegal-Students'. *Journal for the Education of Gifted Young Scientists*, December. <https://doi.org/10.17478/jegys.781583>

- Syawaludin, A., Supriyati, Y., & Rahayu, W. (2019). *RASCH Model Application for Validation of Measurement Instruments of Student Nationalism*. 5(2), 26–42. <https://doi.org/10.17501/24246700.2019.5204>
- Taherdoost, H. (2018). Validity and Reliability of the Research Instrument; How to Test the Validation of a Questionnaire/Survey in a Research. *SSRN Electronic Journal, January 2016*. <https://doi.org/10.2139/ssrn.3205040>
- Tennant, A., McKenna, S. P., & Hagell, P. (2004). Application of Rasch analysis in the development and application of quality of life instruments. *Value in Health*, 7(SUPPL. 1), 22–26. <https://doi.org/10.1111/j.1524-4733.2004.7s106.x>
- Udompong, L., & Wongwanich, S. (2014). Diagnosis of the Scientific Literacy Characteristics of Primary Students. *Procedia - Social and Behavioral Sciences*, 116, 5091–5096. <https://doi.org/10.1016/j.sbspro.2014.01.1079>
- Ulfa, K., Khumaedi, M., Al, S. M. P., & Kedungwuni, F. (2018). The Developing of Performance Assessment to Calculate Scope and Volume of Cube and Block Competence in The Mathematic Learning of Junior High School. *Journal of Research and Educational Research Evaluation*, 7(1), 29–36. <https://doi.org/10.15294/jrer.v7i1.23045>
- Uysal, I. (2021). *Automated Essay Scoring Effect on Test Equating Errors in Mixed-format Test*. 8(2), 222–238.
- Van Helvoort, J. (2010). A scoring rubric for performance assessment of information literacy in Dutch higher education. *Journal of Information Literacy*, 4(1). <https://doi.org/10.11645/4.1.1256>
- Wahyuni, L. D., Gumela, G., & Maulana, H. (2021). Interrater Reliability: Comparison of essay's tests and scoring rubrics. *Journal of Physics: Conference Series*, 1933(1), 012081. <https://doi.org/10.1088/1742-6596/1933/1/012081>
- Whittaker, T. A., & Worthington, R. L. (2016). Item Response Theory in Scale

- Development Research: A Critical Analysis. *Counseling Psychologist*, 44(2), 216–225. <https://doi.org/10.1177/0011000015626273>
- William P. Fisher, J. (2007). Transactions of the Rasch Measurement SIG. *American Educational Research Association*, 21(1), 1087–1096.
- Wong, W. S., & Bong, C. H. (2021). Assessing Malaysian University English Test (MUET) Essay on Language and Semantic Features Using Intelligent Essay Grader (IEG). 29(2), 919–941.
- Wu, H., Gao, X., & Shen, J. (2020). Principal leadership effects on student achievement: a multilevel analysis using Programme for International Student Assessment 2015 data. *Educational Studies*, 46(3), 316–336. <https://doi.org/10.1080/03055698.2019.1584853>
- Yamtinah, S., Saputro, S., Mulyani, S., Ulfa, M., Lutviana, E., & Shidiq, A. S. (2019). Do students have enough scientific literacy? A computerized testlet instrument for measuring students' scientific literacy. *AIP Conference Proceedings*, 2194(December). <https://doi.org/10.1063/1.5139875>
- Yasin, R. M., Yunus, F. A. N., Rus, R. C., Ahmad, A., & Rahim, M. B. (2015). Validity and Reliability Learning Transfer Item Using Rasch Measurement Model. *Procedia - Social and Behavioral Sciences*, 204(November 2014), 212–217. <https://doi.org/10.1016/j.sbspro.2015.08.143>
- Zagorsek, H., Stough, S. J., & Jaklic, M. (2006). Analysis of the reliability of the leadership practices inventory in the item response theory framework. *International Journal of Selection and Assessment*, 14(2), 180–191. <https://doi.org/10.1111/j.1468-2389.2006.00343.x>