

## DAFTAR PUSTAKA

- Agustika, G. N. S. (2018). Pengembangan Konstruksi dan Validasi Tes Konsep Dasar Matematika. *Journal of Education Technology*, 2(1).
- Agustine, D., Wiyono, K., & Muslim, M. (2014). Pengembangan e-Learning Berbantuan Virtual Laboratory untuk Mata Kuliah Praktikum Fisika Dasar II di Program Studi Pendidikan Fisika FKIP UNSRI. *Jurnal Inovasi dan Pembelajaran Fisika*, 1(1).
- Alagumalai, S., Curtis, D. D., & Hungi, N. (2005). *Applied Rasch Measurement: A Book of Exemplars*. Dordrecht, the Netherlands: Springer.
- Alfarisa, F., & Purnama, D. N. (2019). Analisis Butir Soal Ulangan Akhir Semester Mata Pelajaran Ekonomi SMA Menggunakan RASCH Model. *Jurnal Pendidikan Ekonomi Undiksha*, 11(2), 366-374.
- Alviah, I., Susilowati, E., & Masykuri, M. (2020). Pengaruh Kemampuan Literasi Kimia Terhadap Capaian *Higher Order Thinking Skills* (HOTS) Siswa SMA Negeri 1 Sukoharjo Pada Materi Larutan Penyangga Dengan Pemodelan Rasch. *Jurnal Pendidikan Kimia*. Vol. 9. No. 2. 121-130.
- Amirono, & Daryanto. (2016). *Evaluasi & Penilaian Pembelajaran Kurikulum 2013*. Gava Media.
- Andayani, A., Purwanto, & Ramalis, T. R. (2019). Kajian Implementasi Teori Respon Butir dalam Menganalisis Instrumen Tes Materi Fisika. *Prosiding Seminar Nasional Fisika 5.0*.
- Anderson, O. W & Krathwohl, D. R. (2001). *A Taxonomy for Learning, Teaching, and Assessing*. Addison Wesley Longman Inc. New York.
- Arda, A. (2012). Pengembangan Media Pembelajaran Interaktif Berbasis Komputer untuk Siswa SMP kelas VIII. *Jurnal Mitra Sains*, 3(1).
- Aryadoust, V., Ng, L. Y., & Sayama, H. (2021). A comprehensive review of Rasch measurement in language assessment: Recommendations and guidelines for research. *Language Testing*, 38(1), 6-40.
- Arifin, Z. (2009). *Evaluasi Pembelajaran Prinsip, Teknik dan Prosedur*. Bandung:PT Remaja Rosdakarya.
- Arikunto, S. (2002). *Prosedur Penelitian Suatu Pendekatan Praktek*. Rineka Cipta. Jakarta.
- Batubara, U. N., & Sudrajat, A. (2019). Teknik Penyusunan Instrumen Penilaian Higher Order Thinking Skill (Hots) dalam Pembelajaran Sejarah. *Lentera Pendidikan: Jurnal Ilmu Tarbiyah dan Keguruan*, 22(2), 335-344.
- Bloom, Benjamin S. (1956). *Taxonomy of Educational Objectives : The Classification of Educational Goals, Handbook I Cognitive Domain*. Longmans Green and Co. New York.

- Bond, T. G., & Fox, C. M. (2007). *Applying The Rasch Model: Fundamental Measurement in the Human Sciences, 2nd Edition*. Lawrence Erlbaum Associates, Publishers. Mahwah, New Jersey. London.
- Boone, W. J., Staver, J. R., & Yale, M. S. (2013). *Rasch analysis in the human sciences*. Springer Science & Business Media.
- Branch, R., M. (2009). *Instructional Design: The ADDIE Approach*. Springer. New York.
- Brookhart, S.M. (2010). *How to Assess Higher-Order Thinking Skills in Your Classroom*. ASCD. USA.
- Budiman, A., & Jailani, J. (2014). Pengembangan instrumen Asesmen Higher Order Thinking Skill (HOTS) pada Mata Pelajaran Matematika SMP kelas VIII Semester 1. *Jurnal Riset Pendidikan Matematika*, 1(2), 139-15.
- Chairani, R & Nurfajriani. (2020). Pengembangan E-Modul Berbasis Creative Problem Solving (CPS) Pada Materi Ikatan Kimia Kelas X IPA SMA. *Jurnal Guru Kita*. 6(4).
- Chalkiadaki, A. (2018). A systematic literature review of 21<sup>st</sup>-century skills and competencies in primary education. *International Journal of Instruction*, 11(3), 1–16.
- Creswell, J. W. (2012). *Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research 4th Edition*. Pearson Education, Inc. New Jersey.
- Desilva, D., Sakti, I., & Medriati, R. (2020). Pengembangan Instrumen Penilaian Hasil Belajar Fisika Berorientasi HOTS( Higher Order Thinking Skills ) Pada Materi Elastisitas Dan Hukum Hooke. *Jurnal Kumparan Fisika*, 3(1), 41–50.
- Dirman, C. J., & Juarsih, C. (2014). *Penilaian dan Evaluasi*. Jakarta: Rineka Cipta.
- Edwards, M. C. (2009). An Introduction to Item Response Theory using the Need for Cognition Scale. *Social and Personality Psychology Compass*, 3(4), 507-529.
- Ghani, I. A., Ibrahim, N. H., Yahaya, N. A., & Surif, J. (2017). Enhancing students' HOTS in laboratory educational activity by using concept map as an alternative assessment tool. *Chemistry education research and practice*, 18(4), 849-874.
- Gronlund, N., dkk. (1990). *Measurement And Evaluation In Teaching*. New York: Mac Millan Publishing.
- Hambleton, R. K., dkk. (1991). *Fundamentals of Item Response Theory*. Sage Publications.
- Hamdu, G., Fuadi, F. N., Yulianto, A., & Akhirani, Y. S. (2020). Items Quality Analysis Using Rasch Model To Measure Elementary School Students'

- Critical Thinking Skill On Stem Learning. *JPI (Jurnal Pendidikan Indonesia)*, 9(1), 61-74.
- Handayani, F., Hartono, H., & Lestari, W. (2019). Need Analysis in The Development of HOTS-Oriented Study Project Assesment Instrument in Android-Based Science Learning. *Journal of Research and Educational Research Evaluation*, 8(1), 57-64.
- Hanifah, Nurdinah. (2019). Pengembangan Intrumen Penilaian Higher Order Thinking Skill (HOTS) disekolah dasar. *Current Research in Education: Conference Series Journal*. Vol. 1. No. 1.
- Haviz, M. (2013). Research and Development; Penelitian di Bidang Kependidikan yang Inovatif, Produktif, dan Bermakna. *Jurnal Ta'dib*, 16(1).
- Hewi, L., & Shaleh, M. (2020). Refleksi Hasil PISA (The Programme For International Student Assesment): Upaya Perbaikan Bertumpu Pada Pendidikan Anak Usia Dini. *Jurnal Golden Age*, 4(01), 30-41.
- Hopkins, C. D., & Antes R. L. (1990). *Classroom Measurement and Evaluation*. F.E. Peacock.
- Janti, S. (2014). Analisis Validitas dan Reliabilitas dengan Skala Likert terhadap Pengembangan SI/TI dalam Penentuan Pengambilan Keputusan Penerapan Strategic Planning pada Industri Garmen. *In Prosiding Seminar Nasional Aplikasi Sains dan Teknologi (SNAST)*, (Vol. 15, pp. 155-160).
- Jurs, S. G., & Wiersma, W. (1990). *Educational Measurement and Testing*. United States: A Division of Simon & Schuster
- Kartono, K. (2020). Respon Guru Dan Siswa Sekolah Dasar Terhadap Hasil Pengembangan Soal Online Menggunakan Google Form Sebagai Implementasi Belajar Dari Rumah. *Visipena*, 11(2), 393-403.
- Kementerian Pendidikan dan Kebudayaan. (2017). *Silabus Mata Pelajaran Kimia Sekolah Menengah Atas/Madrasah Aliyah (SMA/MA)*. Kementerian Pendidikan dan Kebudayaan. Jakarta
- Khairani, A. Z., & Abd Razak, N. (2012). Advance in Educational Measurement: A Rasch Model Analysis of Mathematics Proficiency Test. *International Journal of Social Science and Humanity*, 2(3), 248-251.
- Khoshaim, H. B., & Rashid, S. (2016). Assessment of the Assessment Tool: Analysis of Items in a Non-MCQ Mathematics Exam. *International Journal of Instruction*, 9(1), 119-132.
- Kizlik, B. (2012). Measurement, Assessment, and Evaluation in Education. *Retrieved October*, 10, 2015.
- Koyan, I Wayan. (2011). *Asesmen dalam Pembelajaran*. Singaraja: Universitas Pendidikan Ganesha Press.
- Krathwohl, D. R. (2002). A revision of Bloom's taxonomy: An overview. *Theory into practice*, 41(4), 212-218.

- Kusuma, M. D., Rosidin, U., Abdurrahman, A., & Suyatna, A. (2017). The development of Higher Order Thinking Skill (Hots) instrument assessment in physics study. *IOSR Journal of Research & Method in Education (IOSR-JRME)*, 7(1), 26-32.
- Lewy, Zulkardi, & N Aisyah. (2009). Pengembangan Soal untuk Mengukur Kemampuan Berpikir Tingkat Tinggi Pokok Bahasan Barisan dan Deret Bilangan di Kelas IX Akselerasi SMP Xaverius Maria Palembang. *JURNAL Pendidikan Matematika* (3) : 15-28.
- Linacre, J. M. (2012). A User's Guide to Winstep. Ministep Rasch-Model Computer Programs.: Program Manual 3.73. 0. 2011.
- Lubis, L.T., Silaban, R., & Jahro, I. S. (2016). Pengembangan Penuntun Praktikum Kimia Dasar I Terintegrasi Pendekatan Inkuiri: *Jurnal Pendidikan Kimia*, 8(2).
- Martin, M., Supriyati, Y., & Budi, A. S. (2018). Pengembangan Computer Based Test (CBT) sebagai alat penilaian pembelajaran fisika SMA pada materi gerak lurus. In *Quantum: Seminar Nasional Fisika, dan Pendidikan Fisika*.
- Matondang, Z. (2009). Validitas dan Reliabilitas suatu Instrumen Penelitian. *Jurnal Tabularasa*, 6(1), 87-97.
- Morad, S., Ragonis, N., & Barak, M. (2021). The validity and reliability of a tool for measuring educational innovative thinking competencies. *Teaching and Teacher Education*, 9(7), 103193.
- Muchlis, I, P & Andromeda. (2020). Pengembangan Instrumen Tes Berbasis *Higher Order Thinking Skill* Pada Materi Hidrolisis Garam Untuk Siswa SMA/MA. *Jurnal Eksakta Pendidikan*, Vol. 4. No. 2. 218-225.
- Netri, N., Holiwarni, B., & Abdullah (2018). Pengembangan Instrumen Tes Berbasis *Higher Order Thinking Skill (HOTS)* Materi Kesetimbangan Kimia Di Kelas XI SMA/MA. *JOM FKIP*. Vol. 5, Edisi 2
- Nisa, N. A. K., dkk. (2018). Pengembangan Instrumen Assessment *Higher Order Thinking Skill (HOTS)* pada Lembar Kerja Peserta Didik Kelas VII SMP. In *Prosiding Seminar Nasional Matematika dan Pendidikan Matematika* (Vol. 1, No. 2, pp. 543-556).
- Nurfajriani, Wildayani, H., & Nugraha, A. W. (2021). *Pengembangan Bahan Ajar Inovatif dan Interaktif Berbasis Konseptual Pada Materi Termokimia di SMA/MA*. Prosiding Seminar Nasional Kimia dan Terapan (2021). 44-49.
- Nurhayati, A., & Ningrum, R. T. L. (2016). Influence of Cognitive Assessment Instrument Based Higher Order Thinking Skill Toward Students' Critical Thinking Skill. *International Conference on Mathematics, Science, and Education*.

- Nurwahidah, I. (2018). Pengembangan soal penalaran model TIMSS untuk mengukur high order thinking (HOT). *THABIEA: JOURNAL OF NATURAL SCIENCE TEACHING*, 1(1).
- OECD. 2019. *PISA 2018: Assesment and Analytical Frame Work: Science, Reading, Mathematic and Financial Literacy*. Paris: OECD Publishing.
- Oktavia, D. D., Amanda, F., Amalia, F. F., Islamiah, N., & Khasanah, U. K. U. (2021). Studi Literatur: Implementasi Pembelajaran Hots Melalui Pendidikan Karakter Terhadap Teknologi Pendidikan. *SNHRP*, 3, 323-329.
- Padilla, K. L., & Akers, J. S. (2021). Content Validity Evidence for the Verbal Behavior Milestones Assessment and Placement Program. *Journal of Autism and Developmental Disorders*, 1-13.
- Pratama, D. (2020). Analisis Kualitas Tes Buatan Guru Melalui Pendekatan Item Response Theory (IRT) Model Rasch. *Tarbawy: Jurnal Pendidikan Islam*, 7(1).
- Pratama, G. S., & Retnawati, H. (2018). Urgency of higher order thinking skills (HOTS) content analysis in mathematics textbook. In *Journal of Physics: Conference Series* (Vol. 1097, No. 1, p. 012147).
- Pratiwi, N. I. (2021). Pengembangan Instrumen Asesmen *Higher Order Thinking Skills* (HOTS) Merujuk Kurikulum 2013 Pada Materi Termokimia Untuk Siswa SMA. *Tesis*. Universitas Negeri Medan, Medan
- Purba, N., Yahya, M & Nurbaiti. 2021. Revolusi Industri 4.0 : Peran Teknologi Dalam Eksistensi Penguasaan Bisnis dan Implementasinya. *JPSB*. 9(2).
- Purba, S. E. D. (2018). Analisis model Rasch instrumen tes prestasi pada mata pelajaran dasar dan pengukuran listrik. *Wiyata Dharma: Jurnal Penelitian dan Evaluasi Pendidikan*, 6(2).
- Putri, C. A., Rofiqoh, E., Wulandari, F. A., Prastiningrum, F. A., & Eva, N. (2021). Asesmen Autentik: Pengembangan Asesmen HOTS Mata Pelajaran Matematika pada Siswa SMP. In *Seminar Nasional Psikologi UM*, 1(1).
- Purnomo, S. (2016). *Pengembangan Soal Matematika Model PISA Konten Space and Shape untuk Mengetahui Level Kemampuan Berpikir Tingkat Tinggi Berdasarkan Analisis Model RASCH* (Doctoral dissertation).
- Rachmantika, A. R & Wardono. 2019. Peran Kemampuan Berpikir Kritis Siswa Pada Pembelajaran Matematika Dengan Pemecahan Masalah. *PRISMA, Prosiding Seminar Nasional Matematika*. Vol. 2, 439-443.
- Rahmawati, L., Utomo, U., & Ahmadi, F. (2018). The Development of Assessment Instrumens Skills of Cultural Lesson Arts and Workshops in Primary School Based on Mobile. *Journal of Educational Research and Evaluation*, 7(1), 60-69.

- Retnawati, H. (2014). *Teori Respon Butir dan Penerapannya: Untuk Peneliti, Praktisi Pengukuran dan Pengujian, Mahasiswa Pascasarjana*. Yogyakarta: Nuha Medika.
- Retnawati, H. (2016). *Validitas, Reliabilitas, dan Karakteristik Butir*. Yogyakarta: Parama Publishing.
- Retnawati, H., Hadi, S., & Nugraha, A. C. (2016). Vocational High School Teachers' Difficulties in Implementing the Assessment in Curriculum 2013 in Yogyakarta Province of Indonesia. *International Journal of Instruction*, 9(1), 33-48.
- Rozi, A., Khoiri, A., Farida, R. D. M., Sunarsi, D., & Iswadi, U. (2021). The fullness of Higher Order Thinking Skills (HOTS) in Applied Science Textbooks of Vocational Schools. In *Journal of Physics: Conference Series* (Vol. 1764, No. 1, p. 012143). IOP Publishing.
- Sadhu, S., & Laksono, E. W. (2018). Development and Validation of an Integrated Assessment for Measuring Critical Thinking and Chemical Literacy in Chemical Equilibrium. *International Journal of Instruction*, 11(3), 557-572.
- Safihin, M., & Hamdani, H. (2019). Pengembangan Tes Menggunakan Model Rasch Materi Gaya untuk SMA. *Jurnal Pendidikan Dan Pembelajaran*, 8(6).
- Saido, G. M., Siraj, S., Nordin, A. B. B., & Al\_Amedy, O. S. (2018). Higher order thinking skills among secondary school students in science learning. *MOJES: Malaysian Online Journal of Educational Sciences*, 3(3).
- Sani, R. A. (2019). *Pembelajaran Berbasis HOTS (Higher Order Thinking Skills)*. Tira Smart, Tangerang.
- Santoso, A., Kartianom, K., & Kassymova, G. K. (2019). Kualitas Butir Bank Soal Statistika (Studi Kasus: Instrumen Ujian Akhir Mata Kuliah Statistika Universitas Terbuka). *Jurnal Riset Pendidikan Matematika*, 6(2).
- Sappaile, B. I., & Pristiwaluyo, T. (2019). Analisis butir soal ujian sekolah berstandar nasional dengan pendekatan klasik dan teori respon butir mata pelajaran matematika. In *Seminar Nasional LP2M UNM*.
- Saputro, B. (2017). *Manajemen Penelitian Pengembangan (Research & Development) bagi Penyusun Tesis dan Disertasi*. Aswaja Pressindo. Yogyakarta.
- Saputro, S. D., Nadliroh, N., Sari A. K., Ningsih, P. R., Wijaya, E. Y. (2019). Pengembangan Instrumen Penilaian Berbasis Hots (High Order Thinking Skill) Mata Pelajaran Sistem Komputer Kelas X SMK NEGERI 2 BANGKALAN. In *Seminar Nasional Pendidikan dan Pembelajaran 2019*.
- Savira, I., Wardani, S., Harjito, H., & Noorhayati, A. (2019). Desain Instrumen Tes Three Tiers Multiple Choice Untuk Analisis Miskonsepsi Siswa Terkait Larutan Penyangga. *Jurnal Inovasi Pendidikan Kimia*, 13(1).
- Shi, L., Granlund, M., Zhao, Y., Hwang, A. W., Kang, L. J., & Huus, K. (2021). Transcultural adaptation, content validity and reliability of the instrument

- ‘Picture My Participation’ for children and youth with and without intellectual disabilities in mainland China. *Scandinavian Journal of Occupational Therapy*, 28(2), 147-157.
- Solihatun, S., Rangka, I. B., Ratnasari, D., Radyati, A., Siregar, Y., Wulansari, L., & Rahim, R. (2019). Measuring of student learning performance based on geometry test for middle class in elementary school using dichotomous Rasch analysis. In *Journal of Physics: Conference Series* 1157(3).
- Smiley, J. (2015). Classical Test Theory or Rasch-A Personal Account From a Novice User. *Shiken*, 19(1), 16-29.
- Subia, G., Marcos, M., Valdez, A., Pascual, L., & Liangco, M. (2020). Cognitive Levels as Measure of Higher-Order Thinking Skills in Senior High School Mathematics of Science, Technology, Engineering and Mathematics (STEM) Graduates. *Technology Reports of Kansai University*, 62(03).
- Sudijono, A. (2016). *Pengantar Evaluasi Pendidikan*. Rajawali Pers. Jakarta.
- Sugiyono, (2009), *Metode Penelitian Kuantitatif Kualitatif dan R&D*, Alfabeta, Bandung.
- Suhardjanto, S. (2021). Upaya Peningkatan Kemampuan Guru Bahasa Indonesia Dalam Menyusun Soal HOTS Melalui Workshop. *Jurnal Ilmiah Pro Guru*, 4(4), 506-514.
- Sumintono, B., dan Widhiarso, W.(2015). *Aplikasi Pemodelan Rasch pada Assessment Pendidikan*. Cimahi: Penerbit Trim Kominikata Publishing House
- Suprananto, K. (2012). *Pengukuran dan Penilaian Pendidikan*. Yogyakarta: Graha Ilmu.
- Suyanto, & Jihad, A. (2013). *Menjadi Guru Profesional: Strategi Meningkatkan Kualifikasi dan Kualitas Guru di Era Global*. Erlangga. Jakarta.
- Sternberg, R. J., & Baron, J. B. (1985). A statewide approach to measuring critical thinking skills. *Journal of Educational Leadership*. 43(2). Page 40-43
- Syafitri, A. 2021. Pengembangan Instrumen Penilaian Hasil Belajar Kimia Untuk Mengukur *High Order Thinking Skills* (HOTS) Pada Materi Kimia Semester Ganjil Kelas XI SMA. *Tesis*. Universitas Negeri Medan, Medan.
- Tanrere, M., & Side, S. (2012). Pengembangan Media Chemo-Edutainment melalui Software Macromedia Flash MX pada Pembelajaran IPA Kimia SMP. *Jurnal Pendidikan dan Kebudayaan*, 18(2).
- Thohir, M., & Muslimah, K. C. (2020). Evaluation of Arabic Learning Outcomes using Google Form during School Quarantine due to Covid-19 Pandemic. *EVALUATION*, 4(1).
- Tseng, H. H. (2016). A Model for Performance Assessment: A Case of Professional Music Training Program. *International Journal of Innovation and Research in Educational Sciences*, 3(6), 376-380.

- Utama, C., & Nurkamto, J. (2020). The Instrument Development to Measure Higher-Order Thinking Skills for Pre-Service Biology Teacher. *International Journal of Instruction*, 13(4).
- Wahyuni, V., Kartono, K., & Susiloningsih, E. (2018). Development of Project Assesment instrumens to Asses Mathematical Problem Solving Skills on A Project-Based Learning. *Journal of Educational Research and Evaluation*. 7(2), 147-153.
- Walvoord, B. E. (2010). *Assessment Clear and Simple: A Practical Guide for Institutions, Departments, and General Education*. John Wiley & Sons.
- Widana, I. W. (2017). Higher Order Thinking Skills Assessment (HOTS). *Journal of Indonesian Student Assesment and Evaluation*. Vol. 3, No. 1.
- Widiawati, L., Joyoatmojo, S., & Sudiyanto, S. (2018). Higher Order Thinking Skills as Effect of Problem Based Learning in the 21st Century Learning. *International Journal of Multicultural and Multireligious Understanding*, 5(3), 96-105.
- Widoyoko, S.E. (2014). *Penilaian Hasil Pembelajaran di Sekolah*. Pustaka Pelajar. Yogyakarta.
- Yee, M. H., Yunos, J. M., Othman, W., Hassan, R., Tee, T. K., & Mohamad, M. M. (2015). Disparity of Learning Styles and Higher Order Thinking Skills among Technical Students. *Procedia-Social and Behavioral Sciences*, 204, 143-152.
- Yennita, Y., Khayyatillah, I., Gibran, G., & Irianti, M. (2018). Development of worksheet based on high-order thinking skills to improve high-order thinking skills of the students. *Journal of Educational Sciences*, 2(1), 37-45.
- Yudha, S., Nurfajriani., & Silaban, R. 2023. Analisis Kebutuhan Guru Terhadap Pengembangan Media Pembelajaran Kimia Berbasis Android. *Jurnal Warta Desa*. 5(1).
- Yusuf, A. M. (2015). *Asesmen dan Evaluasi Pendidikan: Pilar Penyedia Informasi dan Kegiatan Pengendalian Mutu Pendidikan*. Prenadamedia Group. Jakarta.
- Zulaiha, Z., Hartono, H., & Ibrahim, A. R. (2015). Pengembangan Buku Panduan Praktikum Kimia Hidrokarbon Berbasis Keterampilan Proses Sains di SMA. *Jurnal Penelitian Pendidikan Kimia: Kajian Hasil Penelitian Pendidikan Kimia*, 1(1).