

## DAFTAR PUSTAKA

- Agustini, K., & Ngarti, J.G. (2020). Pengembangan Video Pembelajaran Untuk Meningkatkan Motivasi Belajar Mahasiswa Menggunakan Model R & D. *Jurnal Imiah Pendidikan dan Pembelajaran*, 4(1), 62 – 78.
- Almuqdad, Yousef AM., Masoud Z., Majdalawi K., Al-hadeed H., & Kalabani R. (2016). An Innovative Teaching Strategy for the Outpatient Clerkship Program at Jordan University Hospital A Comprehensive Approach to Faculty Development Program. *Indian Journal of Pharmaceutical Education and Research*. 50(2):21-24
- Apino, E., & Retnawati, H. (2017). Developing instructional design to improve mathematical high order thinking of skills students. *Journal of Physics: Conference Series*, 812(1)
- Ariyana, Y., Pudjiastuti, A., Bestary, R., & Zamroni. (2018). *Buku Pegangan Pembelajaran Berorientasi Pada Keterampilan Berpikir Tingkat Tinggi*. Jakarta : Direktorat Jenderal Dosen dan Tenaga Kependidikan, Kementerian Pendidikan dan Kebudayaan
- Aulia, E.V., Poedjiastoeti, S., and Agustini R. (2018). The Effectiveness of Guided Inquiry-based Learning Material on Students' Science Literacy Skills. *Journal of Physics: Conference Series*
- Camel, V., Maillard, M.L., Piard, J., Dumas, C., Cladiere, M., Fitoussi, G., Burn, E., Billault, I., and Roselli, C.S. (2020). CHIMACTIV: An Open-Access Website for Student-Centered Learning in Analytical Chemistry. *Journal of Chemical Education*.
- Chilkoti, G., Mohta, M., Wadhwa, R., & Saxena, AK. (2014). Problem-Based Learning Research in Anesthesia Teaching: Current Status and Future Perspective. *Anesthesiol Res Pract*, <http://dx.doi.org/10.1155/2014/263948>
- Chukwuyenum, A. N. (2013). Impact of critical thinking on performance in mathematics among senior secondary school students in Lagos State. *IOSR Journal of Research & Method in Education*, 3(5), 18–25
- Facione, P.A. (2013). *Critical Thinking : What It Is and Why It Counts*. Hermosa Beach, CA : Measured Reasons LLC.

- Fitriah, L. (2017). Pembelajaran Inkuiri Terbimbing Berbantuan Simulasi Komputer Terhadap Hasil Belajar Materi Keseimbangan Kimia. *Hydrogen: Jurnal Kependidikan Kimia*, 5(2), 75-83
- George, A., Zowada, C., Eilks, I., & Gulacar, O. (2021). Exploring Chemistry Professors' Methods of Highlighting the Relevancy of Chemistry: Opportunities, Obstacles, and Suggestions to Improve Students' Motivation in Science Classrooms. *Education Science*, 11(13)
- Hasanah, S., Purwoko, A.B., and Hakim, A. (2020). The Effect of Guided Inquiry Learning Model on Chemistry Learning Outcomes. *Journal of Science and Science Education*, 1(1), pp 15-20.
- Hidayati, N. (2012). Penerapan Metode Praktikum dalam Pembelajaran Kimia untuk Meningkatkan Keterampilan Berpikir Tingkat Tinggi Mahasiswa pada Materi Pokok Keseimbangan Kimia Kelas XI SMK Diponegoro Banyuputih Batang, *Skripsi*, Semarang. IAIN Walisongo.
- Hosler, J., & Boomer, K. B. (2011). Are comic books an effective way to engage nonmajors in learning and appreciating science? *CBE-Life Sciences Education*, 10, 309-317
- Ichsan, I. Z., Sigit, D. V., Miarsyah, M., Ali, A., & Suwandi, T. (2020). Implementation supplementary book of green consumerism: Improving students HOTS in environmental learning. *European Journal of Educational Research*, 9(1), 227-237
- Iriyani., Bayharti., Iswendi., & Putra, R.F. (2020). Effect of Using Guided Inquiry-Based Chemical Bonding Modules on Student Learning Outcomes. *Journal of Physics: Conference Series*, 1788
- Juliandini, G., Situmorang, M., & Muchtar, Z. (2020). An Innovative Chemistry Learning Material With Project and Multimedia to Developed Students Thinking Skill on the Teaching of Anion Analysis. *Advances in Social Science, Education and Humanities Research*, (488), 97
- Jumlahah., Jatmiko, B., and Hariyono, E. (2021). Comparative Study of Effectiveness Between Inquiry Lab and Guided Inquiry Learning Models To Improve Students' Higher Order Thinking Skills, *JPPS (Jurnal Penelitian Pendidikan Sains)*, 11(1), 12-26

- Kurniawati, T., Kusumaningsih, C., & Rhamadiyanti, Y. (2015). Pengembangan Draft Bahan Ajar Pada Mata Kuliah Basic Reading Program Studi Bahasa Inggris. *Jurnal Pendidikan Bahasa*, 4(2), 281 – 293.
- Kusmana, A. (2011). E-learning dalam Pembelajaran. *Lentera Pendidikan*, 14(1), 35 – 51.
- Lestari I. (2013). *Pengembangan Bahan Ajar Berbasis Kompetensi (Sesuai dengan Kurikulum Tingkat Satuan Pendidikan)*. Padang : Akademia Permata.
- Maknun, J. (2020). Implementation of Guided Inquiry Learning Model to Improve Understanding Physics Concepts and Critical Thinking Skill of Vocational High School Students. *International Education Studies* ,13(6), pp 117-130.
- Muiaman, A., Eddiyanto., and Suyanti, R.D. (2018). Relationship between Motivation and College Students Learning Outcomes on Chemical Kinetic Material at University. *Advances in Social Science, Education and Humanities Research*, (200), 26-28
- Noer, A.M., Putri, E.N., Rery, R. U., Anwar, L., and Tarawi, O. (2021). The E-Module Development Of Reaction Rate Based On Guided Inquiry As Independent Teaching Materials. *Journal of Physics: Conference Series* , pp 1-8.
- Nurhayati, A.L. (2017). Analisis Kemampuan Berfikir Tingkat Tinggi Mahasiswa Dalam Menyelesaikan Soal Konsep Optika Melalui Model Problem Based Learning. *Jurnal Penelitian dan Pengembangan Pendidikan Fisika*, 3(2),119-126
- Pakpahan., Situmorang., Sitorus., & Silaban. (2021). The Development of Project-Based Innovative Learning Resources for Teaching Organic Analytical Chemistry. *Proceedings of the 6th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2021)*
- Pamungkas, A.S., Ihsanudin., Novaliyosi., & Yandari, I.A.V. (2018). Video Pembelajaran Berbasis Sparkol Videoscribe : Inovasi Pada Perkuliahan Sejarah Matematika. *Prima: Jurnal Pendidikan Matematika*, 2(2), 127 – 135.
- Papova, M., and Tamera, J. (2021). Chemistry Instructors' Intentions Toward Developing, Teaching, and Assessing Student Representational Competence Skill. *Royal Society of Chemistry*, 22, 733-748

- Pedaste, etc. (2015). Phases of *inquiry*-based learning: Definitions and the *inquiry* cycle. *Educational Research Review* 14
- Pratama, A., Kalsini., Nurdiawan., Rahaningsih., & Nurdiyansyah. (2020). Learning Innovation Using the *Zahir* Application in Improving Understanding of Accounting Materials. *Journal of Physics: Conference Series*
- Pratiwi, B., & Hapsari, K.P. (2020). Kemampuan Berpikir Tingkat Tinggi Dalam Pemanfaatan YouTube Sebagai Media Pembelajaran Bahasa Indonesia. *Jurnal Ilmiah Sekolah Dasar*, 4(2), 282 – 289.
- Prastiwi, D., Haryani, S., & Lisdiana. (2018). The Effectiveness of Guided Inquiry with Mind Mapping to Improve Science Process Skills and Learning Motivation. *Journal of Primary Education*, 7(2), 195-203
- Prayogi, S., Yuanita, L., & Wasis. (2017). Critical Inquiry Based Learning: A Model of Learning to Promote Critical Thinking Among Prospective Teachers of Physic. *Journal Of Turkish Science Education*, 15(1), 43-56
- Purba, J., Situmorang, M., & Silaban, R. (2019). The Development and Implementation og Innovative Llearning Resource with Guided Pjprojects for the Teaching of Caboxulic Acid Topik. *Indian Journal of Pharmaceutical Education and Research*,53(4), 603-612
- Purba, J., Situmorang, M., Silaban, R., & Dibiyanti, R.E. (2020). Implementation of Innovative Learning Material With Project to Improve Students' Outcomes on the Teaching of Hydrocarbon Alkenes. *Advances in Social Science, Education and Humanities Research*, (488). 514-515
- Sari, D.P., Sitorus, M., Situmorang, M., & Sudrajat, A. (2020). Implementation of Project-Based Learning Resources With Multimedia to Improve Student Learning Outcomes in Teaching Cation Analysis. *Advances in Social Science, Education and Humanities Research*, (488), 120-121
- Silfianah, I. (2020). Development Of Multiple Representationbased General Chemistry Textbook Using Guided Inquiry. *EduChemia (Jurnal Kimia dan Pendidikan)*, 5(2), 180-196
- Silitonga, P. M. (2011), *Statistik Teori dan Aplikasi dalam Penelitian*. Medan : Unimed.
- Simaremare, S., Situmorang, M., & Tarigan, S. (2018). Innovative Learning Material with Project to Improve Students Achievement on the Teaching of Acid-Base

- Equilibrium. *Advances in Social Science, Education and Humanities Research*, (200)
- Situmorang, H.N., Purba, S., & Situmorang, M. (2020). Learning Innovations During the Pandemic COVID-19 for Teaching of Automotive Industrial Management. *Advances in Social Science, Education and Humanities Research*, (488). 261-262
- Situmorang, M. (2013). Pengembangan Buku Ajar Kimia SMA Melalui Inovasi Pembelajaran dan Integrasi Pendidikan Karakter Untuk Meningkatkan Hasil Belajar Mahasiswa. *Prosiding Seminar dan Rapat Tahunan BKS PTN Barat Bidang MIPA di Universitas Lampung*, 237 – 246.
- Snelson, C. (2011). YouTube across the Disciplines: A Review of the Literature. *Merlot Journal of Online Learning and Teaching*, 7(1), 159 – 169.
- Suarman, H., & Hikmah, N. (2018). Development of Innovative Teaching Materials through Scientific Approach. *Journal of Educational Sciences*. 2(2)
- Suartama, I.K., Triwahyuni, E., Abbas, S., Hastuti, W.D., M, Usman., Subiyantoro, S., Umar., & Salehudin, M. (2020). Development of E-Learning Oriented Inquiry Learning Based on Character Education in Multimedia Course. *European Journal of Educational Research*, 9(4), 1591-1603
- Sugiharti, G. (2017). *Strategi Belajar Mengajar*. Medan : Harapan Cerdas Publisher.
- Sugiono. (2014). *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R & D*. Bandung : Alfabeta.
- Sukma., Komariyah, L., & Syam, M. (2016). Pengaruh Model Pembelajaran Inkuiri Terbimbing (Guided Inquiry) Dan Motivasi Terhadap Hasil Belajar Fisika Siswa, *Saintifika*, (18)1, 51
- Sutiani, A., Silalahi, A., & Situmorang, M. (2017). The Development of Innovative Learning Material With Problem Based Approach to Improve Students Competence in The Teaching of Physical Chemistry. *Advances in Social Science, Education and Humanities Research*, volume 104
- Suparman, A. (2012). *Desain Instrusional Modern*. Jakarta : Erlangga.
- Sutrisno, Retnosari, R., & Widarti, H.R. (2017). The Effects of Inquiry-Based Learning Strategy on Chemistry Undergraduate Students' Conceptual Understanding and Science Process Skill Achievement in NMR Spectroscopy.

*Advances in Social Science, Education and Humanities Research, 164, 147-151*

Ural, E. (2016) The Effect of Guided-Inquiry Laboratory Experiments on Science Education Students' Chemistry Laboratory Attitudes, Anxiety and Achievement. *Journal of Education and Training Studies, 4(4),pp 217-227.*

Wisada, P.D., Sudarma, I.K., & S Yuda, A.I. (2019). Pengembangan Media Video Pembelajaran Berorientasi Pendidikan Karakter. *Journal of Education Technology, 3(3),140–146*

