

DAFTAR PUSTAKA

- [Algaraggad, F. E., Ameerh, O. A., & Al-Sabeelah, A. M. \(2014\). Investigation the relationship between goal orientation and self regulated learning among sample jordanian university students. *Journal of Education and Practice*, 5\(39\), 1-8. retrived from: <https://pdfs.semanticscholar.org/956b/2ab5686e498391379a54e6b4e35bd26bb915.pdf>](https://pdfs.semanticscholar.org/956b/2ab5686e498391379a54e6b4e35bd26bb915.pdf)
- Apino, E. (2016). Mengembangkan kreativitas siswa dalam pembelajaran matematika melalui pembelajaran *creative problem solving*. Yogyakarta: Universitas Negeri Yogyakarta. retrived from: <http://seminar.uny.ac.id/semnasmatematika/prosidingsemnasm2016>
- Arsyad, A. (2011). *Media Pembelajaran*. Jakarta: PT Raja Grafindo Persada.
- [Beker, J.M. \(1991\). Subject specific pedagogy: are we ready '10 change our vision of teaching. Paper presented at a meeting of the association of teacher educators. Educational resources information centre.](#)
- Borreguero, G. M., Rodríguez, A. L. P., López, M. I. S., cFernández, P. J. P., & Correa . F. L. N. (2015). Using concept maps to create reasoning models to teach thinking: an application for solving kinematics problems. *Knowledge Management & E-Learning, Vol.7, No.1*. retrived from: <http://www.kmel-journal.org/ojs/index.php/online-publication/article/view/416/253>
- Brehmer, D. (2015). *Problem solving in mathematics*. Malardalen University
- Brockett, R. G., & Donaghy, R. C., (2011). Self-directed learning: The houle connection [versi elektronik]. *International Journal of Self-Directed Learning* 8(2), 1-10. retrived from: https://www.researchgate.net/profile/Ljubomir_Jacic2/post/Does_anyone_know_a_good_source_for_materials_especially_empirical_research_related_to_self-directed_learning_or_independent_learning_in_college/attachment/59d62c13c49f478072e9dced/AS%3A273541017079808%401442228668257/download/Journal-Miranda.pdf
- Brookfield, Stephen. (2002). *Understanding and Facilitating Adult Learning*. Jossey Bass Publisher : San Francisco
- Brown, J. (2014). *Creative problem solving resource guide*. Creative education foundation.
- Budiarti, Y. (2016). Pengaruh metode pembelajaran creative problem solving (CPS) terhadap kemampuan berfikir kratif mahasiswa (studi eksperimen pada mahasiswa pendidikan ekonomi FKIP UM metro). *Jurnal Pendidikan Ekonomi Vol 4 No.2* 50-60 UM Metro retrived from: <https://fkip.ummetromacmid/journal/index.php/ekonomi/article/view/638>

- Busyairi, A. dan Sinaga, P. (2015). Strategi pembelajaran creative problem solving (CPS) berbasis eksperimen untuk meningkatkan kemampuan kognitif dan keterampilan berfikir kreatif. *Jurnal pengajaran MIPA Vol 20 No.2* hlm 133-143 DOI: <http://dx.doi.org/10.18269/jpmipa.v20i2.576>
- Calimas, J.N., Miguel, P. A., Conde, R.S., & Aquino, L.B. (2014). Ubiquitous learning environment using android mobile application. *International Journal of Reseach in Engineering & Technology*, 2 (2), 119-128. ISSN(E): 2321-8843; ISSN(P): 2347-4599, retrived from: www.ipactjournals.us/download.php?fname=2-77-139238910514.%20EngUbiquitous%20Learning%20Environmenet%20Using%20AndroidLuisa%20B.%20Aquinopdf
- Carin, A. W. (1993). *Teaching science through discovery-7ed*. New York: Macmillan Publishing Company.
- Chapoo, S, Thathong, K.. & Ilalim, L (2014). Biology Teachers Pedagogical Content Knowledge in Thailand: Understanding & Practice. *Procedia Social and Behavioral Sciences*, 442-447 [doi: 10.1016/j.sbspro.2014.01.241](https://doi.org/10.1016/j.sbspro.2014.01.241)
- Cheung, F.M. (2009). *The cultural perspective in personality assessment*. In J. N. Butcher (ed), *oxford Handbook ok personality assessment* (pp.44-6). New York, NY: Oxford Univercity Press.
- Chiappetta, E. L & Koballa, T. R., Jr. (2010). *Science instruction in the middle and secondary schools: developong fundamental knowledge and skills, 7th edition*. Boston: Allyn & Bacon.
- Cicbiscs, (2010). *Classroom cognitive and metacognitive strategies for teacher*. Florida Departement education
- Collette, A. T. & Chiappetta, E. L. (1994). *Science instruction in the middle and secondary schools*. NewYork: Macmillan.
- Demir, O., & Yurdugul, H. (2013) Self-directed learning with technology scale for young students: a validation study. *E-International Journal of Education Research*, 4(3), 58-73. retrived from: <http://dergipark.ulaknrm.gov.tr/article/ciewfile/1073000316/1073000133>
- Depdiknas. (2008). *Penulisan modul*. Jakarta : Direktorat Tenaga Kependidikan Direktorat Jendral Mutu Pendidikan dan Tenaga Kependidikan Departemen Pendidikan Nasioanl dari Guru Pembaharu. retrived from: <http://files.eric.ed.gov/fulltext/EJ884407.pdf>
- Desi Susilawati. (2009). Upaya meningkatkan kemandirian belajar dan kemampuan matematika siswa kelas X SMA N 1 gamping dengan menggunakan lembar kerja siswa. Program Studi Pendidikan Matematika, UNY: Yogyakarta
- [Desmita. \(2009\). Psikologi perkembangan peserta didik. Bandung: PT Remaja Rosdakarya.](#)

- Douglas, C., & Morris, S. R. (2014) Student perspective on self-directed learning. *Journal of the Scholarship of teaching an Learning*, 14, 13-25. doi: josotl.v14i1.3202
- Driel, J. H., & Berry, A. (2010). *Pedagogical Content Knowledge (Vol.7)*. Elsevier Ltd.
- Eijs, J. V. (2016). *The effects of problem construction in creative ideation and selection*. University van Amsterdam.
- Ellianawati, & Wahyuni, S. (2010). Pemanfaatan Model Self Regulated Learning sebagai upaya peningkatan kemampuan belajar mandiri pada mata kuliah optik. Diambil dari: <http://journal.unnes.ac.id/nju/index.php/JPFI/article/view/1100/1011>
- Fleisher, S. (2009) “*Book Review: Motivation and self-regulated learning: Theory, research, and application*” by edited by Dele H. Schunk and Barry J. Zimmerman (lawrence Erlbaum Associates, 2008), *International Journal for the Scholarship of technology*. 13:1-2.
- Ganiyanti, A.S.,. (1981). *Gelombang dan Optik*. Universitas Indonesia, Jakarta
- Gibbons, M. (2002) *The self-Directed Learning Handbook*. San Fransisco: Jphn Wiley & Sons, Inc
- [Grant, S.G. \(1997\). On subject-specific pedagogy: two teachers, two pedagogical approaches. Paper presented at the annual conference of the national council for the social studies.](#)
- Greenstein, L. (2012). *Assessing 21st century skills: A guide to evaluating mastery and authentic learning*. Thousand Oaks, CA, US: Corwin Press
- Griswold & Pillai. (2012). *Understanding of learning and theory of instruction, 4thed*. New York: CBs College Publishing
- Hanafi, H.F & Samsudin, K (2012). Mobile Learning environment system (mles): the case of android-based learning application on undergraduates learning. *International Journal of Advanced Computer Science and Applications*, 3 (3), 1-5
- Hartati, Y. (2009). *Productive Pedagogy & Subject Spesific Pedagogy*. Bandung: Universitas Pendidikan Indonesia (UPI) Bandung.
- Hermawan, s. (2011). *Mudah membuat aplikasi android*. Yogyakarta: Penerbit Andi
- Huda, M. (2013). *Model-model pengajaran dan pembelajaran*. Yogyakarta: Pustaka Pelajar
- Hyland, N., & Kranzow, J., (2011). Faculty and student views of using digital tools to enhance self-directed learning and critical thinking. *International Journal*

of self-directed learning, 8(2), 11-27. Retrived from:
<http://sdlglobal.com/IJSDL/IJSDL8.2.pdf>

Iange, K., Kleickman, T., & Moler K. (2012). *Elementary Teacher's Pedagogical Content Knowledge and Student Achievemernt in Science Education*. In C. Brugulere, A. Tiberghien; P. Clement, *Science Learning and CiTizenship*. Lyon: Proceedings of Ninth ESERA- Conference 2011.

Jabbour, K. K. (2014). An analysis of the effect of mobile learning on labanse higher education. *Informatics in Education Journal*, 13, 1-15. Retrived from:
<http://bjsep.or/getfile.php?id=145>

Jones, A., & Moreland, J. (2015). Considering Pedagogical Content Knowledge in the Context of Research on Teaching: An Example from Technology. *Walkato Journal of Education*, 9, 65-76 Retrived from:
<https://core.ac.uk/download/pdf/44289797.pdf>

Kind, V. (2009): pedagogical content knowledge in sience education: Perspectives and potential for progress. *Studies in science education*, 45(2), pp.169-204.
<https://doi.org/10/1002/tea.21378>

[Koehler, M.J., & Mishra, P. \(2006\). Technological pedagogical content knowledge: A framework for teacher knowledge. Teacher college record volume 108, Number 6, pp. 1017-1054. Retrived from: http://one2oneheights.pbworks.com/f/MISHRA_PUNYA.pdf](#)

[Koehler, M.J., & Mishra, P. \(2009\). What is technological pedagogical content knowledge: Contemporary Issues in Technology and Teacher Education, 9\(1\), 60-70. Retrived from: https://www.researchgate.net/profile/Punya_Mishra/publication/241616400_What_Is_Technological_Pedagogical_Content_Knowledge/links/53e2d8840cf275a5fdda688f/What-Is-Technological-Pedagogical-Content-Knowledge.pdf?origin=publication_detail](#)

Leisema, S., & Wannapiron, P. (2013). Development of a collaborative learning with creative problem solving process model in ubiquitous learning with creative problem solving process model in ubiquitous learning environment. *International journal of education*, 3(2), 102. doi: 10.1016/j.sbspro.2014.01.867

Lijedahal, (2016). *Problem solving in mathematics education*. University of Hamburg Germany.

Loughran, J., Berry, A., & Mulhall, P (2006). *Undertancting and developing science teachers' pedagogical Content Knowledge 2nd edition* .Australia: Sense Publishers.

Luckin, R. (2017). *Making the case for collaborative problem solving*. Nesta University.

M.O. Tjia, (1994), *Gelombang*. Dabara Publishers: Solo

- Made Wena. (2009). *Strategi Pembelajaran Inovasi Kontemporer: Suatu tinjauan Konseptual Operasional*. Jakarta: Bumi Aksara.
- Marsono. (2007). *Revitalisasi budaya lokal guna mewujudkan masyarakat sejahtera dalam kemajuan terkini riset*. Universitas Gajah Mada. Yogyakarta: Universitas Gajah Mada.
- Martono, K.T., & Nurhayati, O>D (2014). Implementation of android based mobile learning application as a flexible learning media. *International Journal of Computer Science Issues*, 11 (3), 168-174. ISSN (Print): 1694-0814 | ISSN (Online): 1694-0784
- Maryati, & Susilowati. (2015). Pengembangan Learning Guide Workshop PPG iPA SMP berbantuan Pedagogic Content Knowkdge untuk Meningkatkan Keprofesionalan Guru. Yogyakarta: Lembaga Penelitian dan Pengabdian Kepada Masyarakat Universitas Negeri Yogyakarta.
- [Marzuki. \(2015\). *Pendidikan Karakter Islam*. Jakarta: Amzah.](#)
- Michalsky, T., & Schechter, C. (2013). Preservice teachers' capacity to teach self-regulated learning: Integrating learning from problems and learning from successes. *Teaching and Teacher Education*, 30, 60-73. <http://dx.doi.org/10.1016/j.tate.2012.10.009>
- Molenda, M, Smaldino.Sharon E, dkk (2005). *Instructional technology and media for learning*. Upper Saddle River: Pearson Merrill Prentice Hall.
- Mukhopadhyay, R. (2013). *Problem solving in science learning some important consideration of a teacher*. Jurnal of humanities and social science, 8 (6), 24. Retrived from: <https://pdfs.semanticscholar.org/9fb9/12dad3e84e8f15af5a7c964fc782c1faa36b.pdf>
- Mung Machon, R. (2012). Knowledge and local wisdom: community treasure. *International Journal of Humanities and Social Science*, 2 (13), 174-181. Retrived from: http://www.ijhssnet.com/journals/Vol_2_No_13_July_2012/18.pdf
- [Mustari, M. \(2014\). *Nilai Karakter Refleksi untuk pendidikan*. Jakarta: Grafindo.](#)
- Myron H. Dembo and Helena Seli (2016). *Motivation and learning strategies for collega success a focus on self-regulated learning 5th edition*. Routledge taylor & Francis Group: New York And London.
- Na Talang, E. (2007). *Local Wisdom in Process and Adaption of Tai People*. Bangkok: Amarin.
- Nana Sudjana. (1996). *Cara Belajar Siswa Aktif dalam Proses Belajar Mengajar*. Bandung: Sinar Baru Algesindo
- Norris, S.P. & Phillips, L.M. 2003. How Literacy in Its Fundamental Sense is Central to Scientific Literacy. *Science Education* Volume 87 Issue 2:224-240.

Retrieved from:
https://literacy473.weebly.com/uploads/9/1/6/7/9167715/science_and_literacy.pdf

Pai, Y (1990). *Cultural foundations of educationn*. USA: Merrill Publishing.

Perkasa, M., & Aznam, N. (2016). Pengembangan SSP Kimia Berbasis Pendidikan Berkelanjutan untuk Meningkatkan Literasi Kirnia dan Kesadaran terhadap Lingkungan. *Journal Inovasi Pendidikan Volume 2- Nomor 1*, 46-57. DOI:<http://dx.doi.org/10.21831/jipi.v2i1.10269>

Permendikbud. (2014). *Lampiran III Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 59 Tahun 2014 tentang Kurikulum 2013 Sekolah Menengah Atas/Madrasah Aliyah*. Menteri Pendidikan dan Kebudayaan Republik Indonesia. Jakarta

Perry, N. E., Phillips, L., & Hutchinson, L. (2006). Mentoring Student Teachers to Support Self-Regulated Learning. *The Elementary School Journal*, 106(3), 237-254 <http://dx.doi.org/10.1086/501485>

Perveen, Kousar. (2010). Effect of the problem-solving approach on academic echievement of student in mathematics at the secondary level [Versi Elektronik]. *Countempory Issues In Education Research*, 3(3), 9-14. Retrieved from:

<http://www.cluteinstitutue.com/ojs/index.php.CTER/article/download/181/174>

Phongphit, S. & Nantasuwana, W. (2002). *The Learning Process to Sustainable Development*. Bangkok: Charoenwit.

[Pramono, O. \(2015\). *Keajaiban Potensi Anak Anda*. Yogyakarta: In Azna Books.](#)

Rahayu, S.2002. Kecenderungan pembelajaran kimia di awal abad 21. *Jurnal Matematika, Ilmu Pengetahaun Alam dan pengajaran, Universitas Negeri Malang*, 3192), 271-283. Retrieved from: <http://journal.um.ac.id/index.php/mipa/article/view/1001>

[Robinson, J.B. \(2005\). Identifying pedagogical content knowledge \(PCK\) in the chemistry laboratory, *chemistry education research and practice*, 2005, 6\(2\), 83-103. Retrieved from: \[https://www.rsc.org/images/2005_2b_tcm18-27652.pdf\]\(https://www.rsc.org/images/2005_2b_tcm18-27652.pdf\)](#)

Rohani, Ahmad.(1997). *Evaluasi Pembelajaran sains. Assessment pendekatan scientific pembelajaran terpadu*. UNY

Rusilowati, A., & Widiyatmoko, A. (2015). Pembelajaran kebencanaan alam bervisi sets berbasis budaya lokal natural disaster vision learning sets integrated in subject of physics-based local wisdom. *Jurnal pendidikan fisika indonesia 11(1)*, 42-48. <https://doi.org/10.15294/jpfi.v11i1.4002>.

Santyasa, I Wayan. (2007). Landasan Konseptual media pembelajaran. *Seminar dan workshop Media Pembelajaran bagi Guru-Guru SMA*. Retrieved from:

http://file.upi.edu/direktorit/FIP/JUR.PEND.LUARSEKOLAH/194704171973032-MULIATI_PURWASASMITA/MEDIA_PEMBELAJARAN.pdf

Sarkim, T. (2015). Pedagogical Content Knowledge: sebuah konstruk untuk memahami kinerja guru di dalam pembelajaran, (April), 7-12. Retrived from: <http://hfi-diyjateng.or.id/sites/default/files/1/FULL-Makalah%20Utama%20II%3A%20Pedagogical%20Content%20Knowlegde%3A%20Sebuah%20Konstruk%20untuk%20Memahami%20Kinerja%20Guru%20di%20Dalam%20Pembelajaran.pdf>

Setiadi, P. (2013) Discourse analysis of serat kalatidha. javanese cognitive system and Local Wisdom. *Asian Journal Of Social Science & Humanities*, 2(4) p.292-300. Retrived from: [http://www.ajssh.leena-luna.co.jp/AJSSHPDFs/Vol.2\(4\)/AJSSH2013\(2.4-29\).pdf](http://www.ajssh.leena-luna.co.jp/AJSSHPDFs/Vol.2(4)/AJSSH2013(2.4-29).pdf)

[Shulman, L.S. \(1986\). Those who understand: knowledge growth in teaching. *Educational Researcher*, Vol. 15, No. 2. Pp. 4-14. Retrived from: http://links.jstor.org/sici?i=0012189X281986022915%3A2%3C4%3ATWUKGI3E2.0.CO%3B2-X](http://links.jstor.org/sici?i=0012189X281986022915%3A2%3C4%3ATWUKGI3E2.0.CO%3B2-X)

Slameto. (2010). *Belajar dan Faktor yang mempengaruhinya*. Jakarta: Rineka Cipta.

Suastra, I. W. (2005). Merekonstruksi sains asli ((di-genius Science) dalam upaya mengembangkan pendidikan sains berbasis budaya lokal di sekolah. *Jurnal Pendidikan dan Pengajaran IKIP Negeri Singaraja*. Retrived from: <https://ejournal.undiksha.ac.id/index.php/JPP/article/viewFile/1697/1484>

Sugiyono. (2014). *Metode penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabeta.

[Surya, H. \(2011\). *Strategi jitu mencapai kesuksesan belajar*. Jakarta: PT Elex Media Komputindo.](#)

Sutrisno, (1982), *Fisika Dasar*. ITB, Bandung

Tipler, P. A., 1991, *Fisika Untuk Sains dan Teknik Edisi Ketiga*. Erlangga, Jakarta

Tracy, Brian. (2014). Time Management, (Translated by Aleksandër Koli), Pristina: Publishing house Damo, Cataloging in CIP publication, CIP, Vol.122. 18.

Tracy, Brian. (2015). Creativity and problem solving, (Translated by Aleksandër Koli), Publishing house Damo, Pristina, Vol.106. 37-42

Ward, G.(2013). Examining primary schools' physical education coordinators' pedagogical content knowledge of games: are we just playing as this?. *International Journal of Primary, Elementary and Early Years Education* 3-13, 41(6), 52-585. <https://doi.org/10.1080/03004279.2011.595424>

Wen, C. K. (2011). When creative problem solving strategy meets web-based cooperative learning environment in accounting education. *New Horizons in*

education, Vol.59, No.1. Taiwan. Retrived from:
<https://files.eric.ed.gov/fulltext/EJ955493.pdf>

Widoyoko, E. P. (2017). *Evaluasi Program Pembelajaran*. Yogyakarta: Pustaka Pelajar.

Wina Sanjaya. (2002). *Strategi Pembelajaran*. Jakarta: PT.Kencana.

Wintergerst & McVeigh. (2011). *Tips for teaching culture practical approaches to intercultural communication*. New York: Pearson education.

Yeung Chung Lee. (2006). *Kidney failure and dialysis: a problem-solving approach in teaching science, technology and society* [Versi Elektronik] *School Science Review*. 87(320). 119-123 retrived from:
<https://www.ase.org/uk/journals/school-science-review/2006/03/320/1715/SSR320Mar2006p119.pdf>

Yuliawati (2015). Penembanan Subject Spesific Pedagogy (SSP) IPA Terpadu untuk Meningkatkan Hasil Belajar Siswa. *Jurnal limu pendidikan kimia (JPK)* 6(2), 119-127. Retrived from:
<https://jurnal.fkip.uns.ac.id/index.php/kimia/article/download/9482/8056>

Zimmerman, B. J., & Schunk, D. H. (2011). *Self regulated learning and performance*. In B. J. Zimerman, & D. H. Schunk, *handbook of selft-regulated of learning and performance*. New York and London: Routledge.

Zimmerman, B. J., Bonner, R. (1996). *Developing self-regulated Learning: Beyond achievement to self-effiacy*. Washington, D.C: American Psychological Association.

Zumbrunn, S., Tadlock, J., & Roberts, E. D. (2011). *Encouraging Self-Regulated Learning in the Classroom: A review of the literature*. Virginia: Metropolitan Educational Reasearch Consortium (MERC).