

### Daftar Pustaka

- Alatas, H. (2012). Buku Pelengkap Fisika Matematika Edisi 1. [Online] Tersedia di: <http://alatas.staff.ipb.ac.id/files/2012/03/Buku-Pelengkap-Fisika-Matematika.pdf>. Diakses tanggal 18 Januari 2014.
- Anderson, T. and Shattuck, J. (2012). Design-Based Research: A Decade of Progress in Education Research? *Educational Researcher*, 41 (1),16–25.
- Anderson, L. And Krathwohl, D. (eds). (2001). *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. Longman Publishing Co., New York.
- Arends, R.I. (2008) *Learning to Teach: Belajar untuk Mengajar*. Yogyakarta:Pustaka Pelajar.
- Arslan, A.S. and Arslan, S. (2010). Mathematical models in physics: A study with prospective physics teacher. *Scientific Research and Essays*. 5 (7), 634–640.
- Artino Jr, A.R. (2008). Cognitive Load Theory and the Role of Learner Experience: An Abreviated Review for Educational Practitioners. *Assosiation for the Advancement of Computing in Education Journal*, 16 (4), 425–439.
- Alghafri, A.S.R. and Nizam, H. (2014). The Effects of Integrating Creative and Critical Thinking on Schools Students' Thinking. *International Journal of Social Science and Humanity*, 4 (6), 518–525.
- Ayush, G. and Elby, A. (2011). Beyond Epistemological Deficits: Dynamic explanations of engineering students' difficulties with mathematical sense-making, *International Journal of Science Education*, 33, 2463–2488.
- Bailin, S. (1993). Epilogue Problems in Conceptualizing Good Thinking. *The American Behaviorial Scientist (1986-1994)*,37 (1), 156-164.
- Barnett, B. G. (1995). Developing reflection and expertise: can mentors make the difference?. *Journal of Educational Administration*, 33 (5), 45–59. [Online].Tersedia di: <http://www.emeraldinsight.com/journals.htm?articleid=839060&show=abstract>. Diakses tanggal 14 Januari 2014.

- Benjamin, J. Bessant, J., and Watts, R. (1997), *Making Groups Work Rethinking Practice*, Allen & Unwin.
- Branch Jr, W.T. and Paranjape, A. (2002) Feedback and Reflection: Teaching Methods for Clinical Settings. *Academic Medicine*, 77 (12).
- Brown, G. and Atkins, M. (2002). *Effective Teaching in Higher Education*. London: Taylor & Francis.
- Burden, P. R.. and Byrd, D. M. (1994). *Methods for Effective Teaching*. Bosto, MA: Allyn and Bacon, Inc.
- Butts, T. (1980) *Posing problems properly* dalam Krulik, S. & Reys, R. E. (editor). (1980). *Problem solving in school mathematics*. New York: the National Council of Teachers of Mathematics, Inc. S.
- Cardellini, L. (2006). Fostering creative problem solving in chemistry through group work”. *Chemistry Education Research and Practice*, 7 (2), 131–140.
- Chee, Y. S. (1995). Cognitive apprenticeship and its application to the teaching of Smalltalk in a multimedia interactive learning environment. *Instructional Science*, 23 (1–3), 133–161.
- Çimer, A., Çimer, S. O., Vekli, G. S. 2013. How Does Reflection Help Teachers to Become Effective Teachers?. *International Journal Educational Research*, 1 (4), 133-149.
- Cresswell, J. W. and Plano Clark, V. L. (2007). *Designing and Conducting Mixed Methods Research*. Sage Publication, Inc.
- Cruickshank, D.R., Jenkins, D.B., and Metcalf, K.K. (2009). *The Act of Teaching*, fifth edition. Boston : Mc Graw Hill Higher Education.
- Coe, R. (2002). It’s the Effect Size, Stupid (What Effect Size is and Why It Is Important). Annual Conference of the British Educational Research Association, University of Exeter, England, 12–14 September 2002 [Online]. Tersedia di <http://www.leeds.ac.uk/educol/documents/00002182.htm>. Diakses tanggal 4 Septemer 2016.
- Collins, A., Brown, J.S., and Holum, A. (1991). Cognitive Apprenticeship: Making Thinking Visible. *American Educator*, 1–18. [Online]. Tersedia di [http://elc.fhda.edu/transform/resources/collinsbrownholum\\_1991.pdf](http://elc.fhda.edu/transform/resources/collinsbrownholum_1991.pdf). Diakses tanggal 10 Februari 2014.

- Cooper, T.O.H. (2015). Investigating the Effects of Cognitive Apprenticeship-Based Instructional Coaching on Science Teaching Efficacy Beliefs. *FIU Electronic Theses and Dissertations*. Paper 1779. [Online]. Tersedia di <https://www.google.co.id/#q=implementation+of+cognitive+apprenticeship+model+2015+pdf>
- Dede, C. (2005). Why design-based research is both important and difficult. *Educational Technology*, 45 (1), 5–8.
- Dennen, V. P. and Jonassen, D. H. (Ed). (2004). Cognitive Apprenticeship in Educational Practice: Research on Scaffolding, Modeling, Mentoring, and Coaching, as Instructional Strategies. *Handbook of Research on Educational Communications and Technology (2nd ed.)*, 813–828. [Online]. Tersedia di: <http://learngen.org/~aust/EdTech eBooks/AECT%20HAND BOOK%202ND/31.pdf>. Diakses tanggal 19 Januari 2014.
- Dewanto, P. S. (2008). Peranan Kemampuan Akademik Awal, *Self-Efficacy*, dan Variabel Nonkognitif Lain Terhadap Pencapaian Kemampuan Representasi Multipel Matematis Mahasiswa Melalui Pembelajaran Berbasis Masalah. *Educationist*, 2 (2), 123–133.
- Dewey, J. (1910). *How We Think*. Lexington, Mass: D.C. Health and Company.
- Dewey, J. (1993). *How We Think : A Restatement of the Relation of Reflective Thinking to the Educative Process*. Boston, MA : D. C. Health and Company.
- Dong-Hai, N. and Rebello, N. S. (2011). Students' difficulties with integration in electricity. *Physics Education Research*, 7.
- Egodawatte, G. (2010). A rubric to self-assess and peer-assess mathematical problem solving tasks of college students. *Acta Didactica Napocensia*, 3 (1), 75–88. [Online]. Tersedia di: <http://per.physics.helsinki.fi/eng/publications/articles/generexp.PDF>. Diakses tanggal 12 Januari 2014.
- Eison, J. (2010). *Using Active Learning Instructional Strategies to Create Excitement and Enhance Learning*, [Online], tersedia di <https://www.cte.cornell.edu/documents/presentations/Active%20Learning%20-%20Creating%20Excitement%20in%20the%20Classroom%20-%20Handout.pdf>
- Ellianawati. (2011). *Fisika Matematika 1*. Tidak dipublikasikan.

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Universitas Pendidikan Indonesia | [repository.upi.edu](http://repository.upi.edu) | [perpustakaan.upi.edu](http://perpustakaan.upi.edu)

- Ellianawati. (2011). *Fisika Matematika 2*. Tidak dipublikasikan.
- Ellianawati. (2013a). Ujian Akhir Semester Pengembangan Program Pendidikan IPA. (Tidak diterbitkan).
- Ellianawati, Rusdiana D., and Sabandar J. (2013b). Reflective Thinking Skills in Prospective Physics Teachers. R.H.K Surtikanti, A. Permanasari, Munir, Turmudi, I. Kaniawati, D. Rochintaniawat, *et.al.* (Eds.), *Proceeding of International Seminar on Mathematics, Science, and Computer Science Education*, Section Physics and Physics Education 2013, hlm. 95-98. Bandung: Universitas Pendidikan Indonesia.
- Ellianawati, Rusdiana, D., dan Sabandar, J. (2013c). Kontribusi Pembelajaran Fisika Matematika dalam Mengembangkan Kemampuan Pemecahan Masalah Calon Guru Fisika Melalui Keterampilan Berpikir Reflektif. J.S. Kosasih, S. Pramuditya, D. Enan (Eds.), *Prosiding Seminar Kontribusi Fisika 2013*, 130–136. Bandung: Institut Teknologi Bandung
- Ellianawati, Rusdiana D., dan Sabandar J. (2014). Capaian Level Berpikir Reflektif Mahasiswa Program Remedial Perkuliahan Fisika Matematika 1 Berbasis *Cognitive Apprenticeship Instruction*. *Jurnal Pendidikan Fisika Indonesia*, 10 (2), 150–157.
- Ellianawati, Rusdiana D., dan Sabandar J. (2015). Berpikir Reflektif sebagai Proses Berpikir Kritis dan Kreatif: Suatu Tinjauan pada Konteks Keterampilan Mahasiswa dalam Proses Penyelesaian Masalah Fisika Matematika. A. Widiatmoko, A.V. Amalis, E.N. Savitri, R.D. Hardianti (Eds.). *Prosiding Seminar Nasional IPA VI*, (pp. 210-217). Semarang: Universitas Negeri Semarang.
- Ennis, R. H. (1991). Critical Thinking; A Streamlined Conception. *Teaching Philosophy*, 14 (1), 5-24.
- Ennis, R. H. (1993). Critical Thinking Assessment. *Theory into Practice*, 32 (3), 179-186.
- Fayambo, G. (2015) Learning Styles, Teaching Strategies and Academic Achievement among some Psychology Undergraduates in Barbados. *Caribbean Educational Research Journal*, 3 (2), 46–61.
- Fisher, A. (2007). *Berpikir Kritis: Sebuah Pengantar*. Terjemahan. Jakarta: Erlangga.

- Ghefaili, A. (2003). Cognitive Apprenticeship, Technology, and the Contextualization of Learning Environments. *Journal of Educational Computing, Design & Online Learning*, 4, 1–27.
- Glazer, E. Hannafin, M.J., and Liyan, S., (2005). “Promoting Technology Integration Through Collaborative Apprenticeship”. *Educational Technology Research and Development*, 53, (4), 56–57.
- Glazer, E. and Hannafin, M.J. (2006). The collaborative apprenticeship model: Situated professional development within school settings. *Teaching and Teacher Education*, 22 (2), 179–193.
- Gou-Li, C. and Anderson O. R. (2010). A Study of Undergraduate Physics Students’ Understanding of Heat Conduction Based on Mental Model Theory and an Ontology–Process Analysis. *Science Education*, 94, 825–854.
- Hall, J. (2012) Using Critical Reflection Exercises to Enhance Student Learning,[Online]. Tersedia di <http://www.napavalley.edu/people/jhall/Documents/JhallUsing%20Critical%20Reflectio%20Exercises%20F2012.pdf>. Diakses tanggal 12 Januari 2013.
- Hamleo-Silver, C.E., Duncan, R.G., and Chinn, C.A. (2007). Scaffolding and Achievement in Problem-Based and Inquiry Learning: A Response to Kirschner, Sweller, and Clark (2006). *Educational Psychologist*, 42 (2), 99–107.
- Hayes, K. and Wittmann, M.C. (2010). The role of sign in students’ modeling of scalar equations. *The Physics Teacher Volume*, 48 (4), 246–250.
- Herrington, J. and Oliver, R. (2000). An instructional design framework for authentic learning environments. *Educational Technology Research and Development*, 48 (3), 23–48.
- Irez , S. and Çakir, M. (2006). Critical Reflective Approach to Teach the Nature of Science: A Rationale and Review of Strategies. *TÜFED-TUSED*, 3 (2), 7–23.
- Irwanto. (2006). *Focused Group Discussion (FGD) : Sebuah Pengantar Praktis*. Jakarta : Yayasan Obor Indonesia
- Isrok’atun. (2014). *Situation Based Learning untuk Meningkatkan Kemampuan Creative Problem Solving Matematis Siswa*. Disertasi.

- Johnson, S.D. and Fischbach, R.M. (1992). Teaching Problem Solving and Technical Mathematics through Cognitive Apprenticeship at the Community College Level. [Online] Tersedia di: <http://files.eric.ed.gov/fulltext/ED352455.pdf>. Diakses tanggal 19 Februari 2014.
- Katz, S., Allbritton, D., and Connelly, J. (2003). Going Beyond the Problem Given: How Human Tutors Use PostSolution Discussions to Support Transfer. *International Journal of Artificial Intelligence in Education (IJAIED)*, 13, 79–116.
- Kember D., Leung D.Y.P., Jones A, Loke A.Y., McKay J., Sinclair K., Tse H., Webb C., Wong F.K.Y., Wong M., Young E. (2000). Development of a questionnaire to measure the level of reflective thinking. *Assessment & Evaluation in Higher Education*, 25 (4), 381-395.
- King, F. J., Goodson, L., and Rohani, F. (1998). Higher-Order Thinking Skills: Definition, Strategies, and Assessment. URL: [http://cala.fsu.edu/files/higher\\_order\\_thinking\\_skills.pdf](http://cala.fsu.edu/files/higher_order_thinking_skills.pdf).
- King, T. (2002). Development of student skills in reflective writing. *Proceedings of the 4th World Conference of the International Consortium for Educational Development in Higher Education, 3-6 July, 2002*. [Online]. Tersedia di [http://www.apjce.org/files/APJCE\\_11\\_3\\_137\\_152.pdf](http://www.apjce.org/files/APJCE_11_3_137_152.pdf). Diakses tanggal 10 September 2016
- Kirschner, P.A., Sweller, J., and Clark, R.E. (2006). Why Minimal Guidance During Instruction Does Not Work: An Analysis of the Failure of Constructivist, Discovery, Problem-Based, Experiential, and Inquiry-Based Teaching. *Educational Psychologist*, 41 (2), 75–86.
- Kolb D. A. (1984). *Experiential Learning: Experience as a Source of Learning and development*, New Jersey: Prentice Hall.
- Kolb, D. A. (2013). *Kolb Learning Style Inventory*. 3.2 edition. Hay Group.
- Kolb, D. A. (2014). *Experiential Learning: Experience as the Source of Learning and Development*. 2nd edition. Pearson FT Press.
- Kruger, K. (2013). Higher-Order Thinking. Hidden Sparks, Inc. New York.
- Krulik, S. and Rudnick, J.A. (1995). *The New Sourcebook for Teaching Reasoning and Problem Solving in Elementary School*. Boston : Temple University.

- Lee, C. K., and Sidhu, M. S. (2015). Engineering Students Learning Preferences in UNITEN: Comparative Study and Patterns of Learning Styles. *Educational Technology & Society*, 18 (3), 266–281.
- Leppävirta, J. (2011). The Impact of Mathematics Anxiety on the Performance of Students of Electromagnetics. *Journal of Engineering Education*, 100 (3), 424–443.
- Lidinillah, D.A.M. (n.d.). *Heuristik dalam Pemecahan Masalah Matematika dan Pembelajaran di Sekolah Dasar*. [Online]. Tersedia di [http://file.upi.edu/Direktori/KD-TASIKMALAYA/DINDIN\\_ABDUL\\_MUIZ\\_LIDINILLAH\\_\(KD-TASIKMALAYA\)-197901132005011003/132313548%20-%20dindin%20abdul%20muiz%20lidinillah/Heuristik%20Pemecahan%20Masalah.pdf](http://file.upi.edu/Direktori/KD-TASIKMALAYA/DINDIN_ABDUL_MUIZ_LIDINILLAH_(KD-TASIKMALAYA)-197901132005011003/132313548%20-%20dindin%20abdul%20muiz%20lidinillah/Heuristik%20Pemecahan%20Masalah.pdf). Diakses tanggal 10 September 2016.
- Lipscomb, L., Swanson, J., and West, A. (2004). *Scaffolding eBook Learning, Teaching, & Technology* Michael Orey, Editor. 1–15. [Online]. Tersedia di <http://www.coe.uga.edu/epitt/scffolding.htm>. Diakses tanggal 14 Januari 2014.
- Liu, T.C. (2005). Web-based Cognitive Apprenticeship Model for Improving Pre-service Teachers' Performances and Attitudes towards Instructional Planning: Design and Field Experiment. *Educational Technology & Society*, 8 (2), 136–149.
- Logan, B. (2015). Reviewing the value of self-assessments: Do they matter in the classroom? *Research in Higher Education Journal*, 29,
- Marsh, C.J. (2008). *Becoming a Teacher: Knowledge, Skills and Issues*. Australia: Pearson Education.
- Mary, L.B. (2006). *Mathematical Methods in the Physical Sciences (3rd ed.)*. USA: John Wiley & Sons.
- McLoughlin, C. (2004). Achieving Excellence in Teaching through Scaffolding Learner Competence. In *Seeking Educational Excellence*. Proceedings of the 13th Annual Teaching Learning Forum, 9–10 February 2004. Perth: Murdoch University.
- Miettinen, R. (2000). The concept of experiential learning and John Dewey's theory of reflective thought and action. *International Journal of Lifelong Education*, 19 (1), 54–72.

- Melis, E. and Ulrich, C. (2014). How to Teach it, Polya-Inspired Scenarios in Active Math. [Online] tersedia di [http://www.activemath.org/pubs/HowTo\\_TeachItPolyaScenariosActiveMath.pdf](http://www.activemath.org/pubs/HowTo_TeachItPolyaScenariosActiveMath.pdf). Diakses tanggal 22 Maret 2014.
- Mirzaei, F. and Phang, F. A. (2013). *The Important of Reflective Thinking Skills for Physics Teachers*. 2<sup>nd</sup> International Seminar on Quality and Affordable Education (ISQAE 2013), 212-215.
- Miri, B., David, B.-C., and Uri, Z. (2007). Purposely Teaching for the Promotion of Higher-Order Thinking Skills: A Case of Critical Thinking. *Research in Science Education*, 37, 353-369.
- Miwa, K., Morita, J., Nakaike, R., and Terai, H. (2012). Learning through intermediate problems in creating cognitive models. *Interactive Learning Environments*, 1–25
- Moreno, R.. (2006). When Worked Examples Don't Work: Is Cognitive Load Theory at an Impasse?. *Learning and Instruction*, 16, 170–181.
- Munandar, U. (2004). *Pengembangan Kreativitas Anak Berbakat*. Jakarta: Rineka Cipta.
- Nahil, M. A. (2015). University Students' Learning Styles and Their Ability to Solve Mathematical Problems. *International Journal of Business and Social Science*, 6 (4), 152–165.
- Najla, R. A. (2016). Matching Learning Styles with Teaching Strategies. *Kingdom of Saudi Arabia Association of Language Teachers TESOL Journal*, 1–21
- Nave, C.R. (2014). *HyperPhysics*. Department of Physics and Astronomy, Georgia State University, USA. [Online] Tersedia di <http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html>. Diakses tanggal 14 Januari 2014.
- Nusu, A. (2014). Scaffolding dalam Microteaching Kimia Berbasis Pembelajaran Langsung dan Siklus Belajar. *Jurnal Ilmu Pendidikan*, 20 (1), 37–46.
- Olteanu, C. and Olteanu, L. (2012). Equations, Functions, Critical Aspects and Mathematical Communication. *International Education Studies*, 5 (5).



- Oluremi F. D. (2015). Learning Styles among College Students *International Journal for Cross-Disciplinary Subjects in Education*, 5 (4), 2631–2640.
- Parscal, T. and Hancmann, M. (2008). *Cognitive Apprenticeship in Online Learning*.
- Paul, R. And Elder, L. (2006). Critical Thinking; the Nature of Critical and Creative Thought. *Journal of Developmental Education*, 30 (2), 34-35.
- Phan. H. P. (2009). Reflective thinking, effort, persistence, disorganization, and academic performance: A Mediational Approach. *Electronic Journal of Research in Educational Psychology*, 7 (3), 927-952.
- Pei-Hsuan, H. and Nian-Shing, C. (2012). Effects of Reflective Thinking in the Process of Designing Software on Students' Learning Performances. *The Turkish Online Journal of Educational Technology*, 11 (2).
- Peters, B. E. E., Merz, S. A., Ramirez, E. M., Saroughi, M. (2015). The Effect of Cognitive Apprenticeship-Based Professional Development on Teacher Self-Efficacy of Science Teaching, Motivation, Knowledge Calibration, and Perceptions of Inquiry-Based Teaching. *Journal of Science Teacher Education*, 26 (6), 525–548.
- PISA. (2005). The Definition and Selection of Key Competencies: Executive Summary. [Online]. Tersedia di: [www.oecd.org/pisa/35070367.pdf](http://www.oecd.org/pisa/35070367.pdf). Diakses tanggal 9 Maret 2015.
- Polya, G. (1945). *How to solve it : A New Aspect of Mathematics Methods*. New Jersey. Princeton University Press.
- Posamentier, Alfred, S., and Jay, S. (1999)., *Teaching Secondary Mathematics: Techniques and Enrichment Units*. New Jersey: Prentice-Hall, Inc.
- Pundak, D., Herscovitz, O., and Shacham, M. (2010). Attitudes of face-to-face and e-learning instructors towards active learning. *European Journal of Open, Distance, and E-Learning*, 1-12.[Online]. Tersedia di <http://www.eurodl.org/?p=archives&year=2010&halfyear=2&article=412>. Diakses tanggal 2 November 2016.

- Reflective Thinking: RT. (n.d.). [Online]. Tersedia di: <http://www.hawaii.edu/intlrel/pols382/Reflective%20Thinking%20-%20UH/reflection.html>. Diakses tanggal 19 Februari 2014.
- Reigeluth, C.M. (1999). What is instructional design theory? In C.M. Reigeluth (Ed.) *Instructional design theories and models: A new paradigm of instructional theory*, 2, 5–29. Manwah, NJ: Lawrence Erlbaum Associates.
- Roll, I., Holmes, N. G., Day, J., & Bonn, D. (2012). Evaluating metacognitive scaffolding in guided invention activities. *Instructional Science*, 40 (4), 691–710.
- Rustad, S. (2007). *Fisika Matematika 1*. Semarang: Unnes Press.
- Rogers, R.R. (2000). Reflective Thinking in Professional Practice: A Model. *Continuing Professional Development Journal*, 3, 129-154.
- Sa'diyah, R. (2011). Pengembangan Instrumen Penelitian. [Online]. Tersedia di: <http://www.fai.umj.ac.id/index.php?option=comcontent&task=view&id=39&Itemid=54>. Diakses tanggal 25 Mei 2013.
- Sabandar, J. (2010). Berpikir Reflektif dalam Pembelajaran Matematika. [Online]. Tersedia di: [http://file.upi.edu/Direktori/FPMIPA/JUR.PEND.MATEMATIKA/194705241981031-JOZUA\\_SABANDAR/KUMPULAN\\_MAKALAH\\_DAN\\_JURNAL/Berpikir\\_Reflektif2.pdf](http://file.upi.edu/Direktori/FPMIPA/JUR.PEND.MATEMATIKA/194705241981031-JOZUA_SABANDAR/KUMPULAN_MAKALAH_DAN_JURNAL/Berpikir_Reflektif2.pdf). Diakses tanggal 25 Mei 2013.
- Saingan, R. C. and Lubrica, J.V. (2008). Demonstration Strategy and Achievement of Physics Students Based on Higher Order Thinking Skills. *Research Journal*, XVI.
- Schön, D. 1991. *The Reflexive Practitioner: how professional think in action*. Aldershot, UK.: Ashgate.
- Schoenfeld, A.H. (1992). Learning to think mathematically: Problem solving, metacognition, and sense making in mathematics. *Handbook of research on mathematics teaching and learning*. New York: MacMillan. pp.334-370. [Online] Tersedia di: <http://gse.berkeley.edu/sites/default/files/users/alan-h.-schoenfeld/Schoenfeld1992%20Learning%20to%20Think%20Mathematically.pdf>. Diakses tanggal 19 Februari 2014.

- Slisko, J. (2008). How can formulation of physics problems and exercises aid students in thinking about their results?. *Lat. Am. J. Phys. Educ*, 2 (2).
- Southampton Solent University. (2016). My Course: Reflective thinking and writing. Retrieved from: <http://mycourse.solent.ac.uk/mod/book/view.php?id=2732&chapterid=1101>. Diakses tanggal 12 Januari 2014.
- Stang, J. B. and Strubbe, L.E. (2015). *Paired teaching for faculty professional development in teaching*. [Online]. Tersedia di <https://arxiv.org/pdf/1507.05948>.
- Stefaniak, J. E. and Tracey, M. W. (2015). An Exploration of Student Experiences with Learner-Centered Instructional Strategies. *Contemporary Educational Technology*, 6 (2), 95–112
- Stuyf, R.V.D. (2002). *Scaffolding as a Teaching Strategy. Adolescent Learning and Development*. [Online]. Tersedia di <http://condor.admin.cuny.cuny.edu/.../Van%20Der%20Stuyf%20Paper.doc>. Diakses tanggal 12 September 2016.
- Sudarma, M. (2013). *Mengembangkan Keterampilan Berpikir Kreatif*. Jakarta: Rajawali Pers.
- Sudiana, I.N. (2003). Peranan Profesionalisme Tenaga Pengajar (Dosen) terhadap Proses Pembelajaran di Perguruan Tinggi. *Jurnal Pendidikan dan Pengajaran IKIP Negeri Singaraja*, 4.
- Sudjana. 2002. *Metoda Statistik*. Bandung: Tarsito.
- Sukadi, E., Cari, Sarwanto. 2015. Implementasi *Pedagogical Content Knowledge* pada Materi Listrik Dinamis untuk Meningkatkan Kompetensi Calon Guru Fisika. *Jurnal Inkuiri*, 4 (1), 37-46.
- Sumarmo, U., Hidayat, W., Zulkarnaen, R, Hamidah, Sariningsih, R. (2012). Kemampuan dan Disposisi Berpikir Logis, Kritis, dan Kreatif Matematik. *Jurnal Pengajaran MIPA*, 17 (1), 17-33
- Suthers, DD, Toth EE, Weiner A. (1997). An Integrated Approach to Implementing Collaborative Inquiry in the Classroom. [Online]. Tersedia di <http://lilt.ics.hawaii.edu/papers/1997/CSCL97.html>. Diakses tanggal 19 Februari 2014.
- Suyitno, Y. (2009). *Landasan Filosofi Pendidikan*. UPI. [Online]. Tersedia di: <http://file.upi.edu/Direktori/FIP/JUR.PEDAGOGIK/1950090819>

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8101Y. SUYITNO/LANDASAN FILOSOFIS PENDIDIKAN DASAR.pdf]. Diakses tanggal 10 April 2013.

- Tanner, H. and Jones, S. (2000). Scaffolding for Success: Reflective Discourse and the Effective Teaching of Mathematical Thinking. *Research in Mathematics Education*, 2 (1), 19–32. [Online]. Tersedia di <http://www.tandfonline.com/doi/abs/10.1080/14794800008520065#>.  
Ut VrnPuK-wQ. Diakses tanggal 15 Januari 2014.
- Taşar, M. F. (2010). What part of the concept of acceleration is difficult to understand: the mathematics, the physics, or both?. *ZDM Mathematics Education*, 42, 469–482.
- The Design-Based Research Collective. (2003). Design-Based Research: An Emerging Paradigm for Educational Inquiry. *Educational Researcher*, 32 (1), 5–8.
- Tican, C. and Taspınar, M. 2015. The Effect of Reflective Thinking-based Teaching Activities on Pre-Service Teachers' reflective Thinking Skills, Critical Thinking Skills, Democratic Attitudes, Academic Achievement. *Anthropologist*, 20 (1,2), 111-120.
- Toh, P. C., Leong, Y. H., Toh, T. L., Dindyal, J., Quek, K. S., Tay, E. G., & Ho, F. H. (2014). The problem-solving approach in the teaching of number theory. *International Journal of Mathematical Education in Science and Technology*, 45 (2), 241–255.
- Tomlinson, C. A. (1995). *How to Differentiate Instruction in Mixed Ability Classrooms*. Alexandria, VA: ASCD.
- Treisman, P. M. (Uri) (1985). A study of the mathematics performance of black students at the University of California, Berkeley. Unpublished doctoral dissertation, University of California, Berkeley. [Online] Tersedia di [http://merit.illinois.edu/educators\\_treismanbib.html#uri85](http://merit.illinois.edu/educators_treismanbib.html#uri85).  
Diakses tanggal 24 Oktober 2016.
- Tuna, A. and Kaçar, A. (2016). The Investigation of The Learning Styles of Pre Service Mathematics Teachers by Some Variabels. *International Journal on New Trends in Education and Their Implications*, 7 (2), 34–42.
- Van den Akker, J., Gravemeijer, K, McKenney, S. & Nieveen, N. (Eds.). (2006). *Educational Design Research*. London: Routledge.

Ellianawati, 2016

**PENGEMBANGAN PERKULIAHAN FISIKA MATEMATIKA BERBASIS COGNITIVE APPRENTICESHIP-INSTRUCTION UNTUK MENINGKATKAN KETERAMPILAN BERPIKIR REFLEKTIF CALON GURU FISIKA**

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- Van de Pol, J. (2010). Scaffolding Teacher-Student Interaction: Decade of Research. *Educational Psychology Review*, 22, 271–276.
- Ventura, C. A. and Moscoloni, N. (2015). Learning Styles and Disciplinary Differences : A Cross-Sectional Study of Undergraduate Students. *International Journal of Learning and Teaching*, 1 (2), 88–93.
- Yang, Y. C. (1993). The Effects of Self-Regulatory Skills and Type of Instructional Control on Learning from Computer-Based Instruction. *International Journal of Instructional Media*, 20 (3), 225–241.
- Zimmerman, B. J. (1989). A Social Cognitive View of Self-Regulated Learning. *Journal of Educational*, 81.
- Zuhal, G. and Kazim, C. (2012). The Relationship between the Reflective Thinking Skills and Emotional Intelligences of Class Teachers. *International Journal of Humanities and Social Science*, 2 (16) , 233–234.