

DAFTAR PUSTAKA

- Abell, S.K. (2008). *Twenty Years Later: Does pedagogical content knowledge remain a useful idea?*. International Journal of Science Education Vol. 30, No. 10, 13 August 2008, pp. 1405–1416
- Adair, L, M., & Chiverina, C, J. (2000) *Preparation of Excellent Teachers at All Levels*. Canada : AAPT Planing Meeting. 27 – 28 Juli 2000.
- Alonzo, C, A. Dkk. (2012). *Pedagogical Content Knowledge as Reflected in Teacher–Student Interactions: Analysis of Two Video Cases*. Journal Of Research I Science Teaching Vol. 49, NO. 10, PP. 1211–1239
- Arends, R. (2008). *Learning to teach*. New York: Mc Graw Hill Companies.2wss
- Bertram, A. Dan Loughran, J. (2012). *Science Teachers' Views on CoRes and PaP-eRs as a Framework for Articulating and Developing Pedagogical Content Knowledge*. Res Sci Educ 42:1027–1047 DOI 10.1007/s11165-011-9227-4
- BPSDMPK-PMP Kemdikbud., (2012)., *Uji Kompetensi Guru (UKG) online Badan Pengembangan Sumber Daya Manusia Pendidikan dan Kebudayaan dan Penjaminan Mutu Pendidikan Kementerian Pendidikan dan Kebudayaan.*, Jakarta.
- Buaraphan, K. and Roadrangka, V. (2006). *Preservice Physics Teacher's Pathway of Pedagogical Content Knowledge Development in a Physics Methods Course: A Case Study*. Kasetsart J. (Soc. Sci) 27 : 339 - 346 (2006)
- Buaraphan, K. Roadrangka, V. Srisukvatananan, P. Singh, P. Forret, M and Taylor, I (2007). *The Development and Exploration of Preservice Physics Teachers' Pedagogical Content Knowledge: From a Methods Course to Teaching Practice*. Kasetsart J. (Soc. Sci) 28 : 276 - 287 (2007)
- Canbazoglu dkk, (2010). *Investigation of the Relationship between Pre-service Science Teachers' Subject Matter Knowledge and Pedagogical Content Knowledge regarding the Particulate Nature of Matter*. Elementary Education Online, 9(1), 275-291.
- Carlsen, W. S., (1991, April)., *Pedagogical Content Knowledge in Science Teaching: The Phlogiston of the 90's?.*, Paper Presented at the Annual Meeting of the National Association for Research in Science Teaching. Lake Genewa, WI.

- Carlsen, W. S., (1993)., *Teacher Knowledge and Discourse Control: Quantitative Evidence from Novice Biology Teachers' Classrooms*. Journal of Research in Science Teaching, 30(5), 471-481.
- Creswell, J. W., Vicki, L. Clark, P., (2007)., *Designing and Conducting Mixed Methods Research*. Thousand Oaks., London., New Delhi: Sage Publications.
- Dahar, R. W., & Siregar, N. (2000)., *Pedagogi Materi Subjek: Meletakan Dasar Keilmuan dari PBM*"., Makalah pada Seminar Staf Dosen FPMIPA dalam Rangka Mensosialisasikan Pedagogi Materi Subjek., Bandung: UPI.
- DeBoer. (1991). *A History of Ideas in Science Education : Implication for Practice*. New York : Teacher College Press.
- De Jong, O., & Van Driel, J. (2004). *Exploring the development of student teachers' PCK of the multiple meanings of chemistry*. International Journal of Science and Mathematics Education, 2, 477-491
- De Jong., O., Van Driel, J., & Verloop, N. (2005). *Preservice teachers' pedagogical content knowledge of using particle models when teaching chemistry*. Journal of Research in Science Teaching, 42,947-964.
- Depdiknas. (2005-a). *Undang-Undang RI Nomor 14 Tahun 2005 tentang Guru dan Dosen*. Jakarta : FokusMedia.
- Depdiknas. (2005-b). *Peraturan Pemerintah Nomor 19 Tahun 2005 tentang Standar Nasional Pendidikan*. Jakarta : Fokusmedia
- Depdiknas. (2006-a). *Peraturan Menteri Pendidikan Nasional Nomor 22 Tahun 2006 tentang Hakekat Fisika dan Pembelajaran Fisika, dan Kelompok Mata Pelajaran Ilmu Pengatahuan dan Teknologi*. Jakarta.
- Depdiknas. (2006-b). *Peraturan Menteri Pendidikan Nasional Nomor 23 Tahun 2006 tentang Standar Kompetensi Lulusan (SKL)*. Jakarta.
- Depdiknas. (2007). *Peraturan Pemerintah Nomor 16 Tahun 2007 tentang Standar Kualifikasi Akademik dan Kompetensi Guru*. Jakarta
- Dobey, D. C., & Schafer, L. E., (1984)., *The Effects of Knowledge on Elementary Science Inquiry Teaching*., Science Education., 68, 39 – 51.
- Etkina, E. (2010). *Pedagogical content knowledge and preparation of high school physics teachers*. Physical Review Special Topics - Physics Education Research 6, 020110 _2010_
- Faikhamta, C. Dkk. (2009). *The Development of Thai Pre-service Chemistry Teachers' Pedagogical Content Knowledge: From a Methods Course to*

Field Experience. Journal of Science and Mathematics Education in Southeast Asia, Vol. 32 No. 1, 18-35

Faikhanta, C. (2013). *The Development of In-Service Science Teachers' Understandings of and Orientations to Teaching the Nature of Science within a PCK-Based NOS Course*. Res Sci Educ 43:847–869 DOI 10.1007/s11165-012-9283-4

Gabel, D, L, (Ed). (1993). *Handbook of Research on Science Teaching and Learning : A Project of National Science Teachers Association*. New York : Macmillan Publishing Company.

Gess-Newsome, J., (1999)., *Pedagogical Content Knowledge: an Introduction and Orientation. Examining Pedagogical Content Knowledge.*, Science & Technology Education Library., New York: Kluwer Academic Publishers.

Grossman, P. L., (1990)., *The Making of Teacher: Teacher Knowledge and Teacher Education.*, New York: Teacher College Press.

Hamalik, O. (2002). *Pendidikan Guru Berdasarkan Pendekatan Kompetensi*. Jakarta : Bumi Aksara

Hamidah, D., (2011)., *Pengembangan Profesional Guru Biologi SMA melalui Program Pelatihan Pedagogical Content Knowledge pada Meteri Genetika.*, Disertasi. UPI Bandung : Sekolah Pasca Sarjana.

Hashweh, M. Z., (1987)., *Effects of Subject-matter Knowledge in the Teaching of Biology and Physics.*, Teaching and Teacher Education., 3(2), 109 – 120.

Herron, R. J. D., et. al. (1977). *Problem Associated with Concept Analysis*

Hume, A. Dan Berry, A. (2011). *Constructing CoRes—a Strategy for Building PCK in Pre-service Science Teacher Education*. Res Sci Educ. 41:341–355DOI 10.1007/s11165-010-9168-3

Jalal, F. & Supriadi, D. (Eds). (2001). *Reformasi Pendidikan dalam Konteks Otonomi Daerah*. Jakarta : Departemen Pendidikan Nasional, BAPPENAS – Adicita Karya Nusa.

Johnston, J., & Ahtee, M. (2006). 'What are Primary Student Teachers' Attitudes, Subject Knowledge and Pedagogical Content Knowledge Needs in a Physics Topic?' Teaching and Teacher Education Vol. 22.No. 4 pp. 1–10.

Kementrian Pendidikan Nasional, (2010), *Rencana Strategis Kemendiknas 2010 – 2014*, Jakarta.

Kementrian Pendidikan Nasional, (2012), *Hasil Uji Kompetensi Awal Guru 2012.*, Jakarta.

Anatasija Limba, 2014

Model Penyiapan Pedagogical Content Knowledge (PCK) Calon Guru untuk Meningkatkan Kemampuan Merancang dan Mengimplementasikan Pengajaran Fisika

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Kleickmann, T, dkk. (2013). *Teachers' Content Knowledge and Pedagogical Content Knowledge: The Role of Structural Differences in Teacher Education*. *Journal of Teacher Education* 64(1) 90–106
- Lederman, N.G., Gess-Newsome, J., & Latz, M.S. (1994). *The nature and development of preservice science teachers' conceptions of subject matter and pedagogy*. *Journal of Research in Science Teaching*, 31,129–146.
- Leinhard,G., & Greeno, J., (1986)., *The Cognitive Skill of Teaching*., *Journal of Education Psychology*., 78 (2), 75 – 95.
- Limba, A., Setiawan, A. Redjeki, S., (2013)., *Studi Awal Tentang Penyiapan Pedagogical Content Knowledge (PCK) Mahasiswa Calon Guru*., Artikel Seminar Nasional “Peningkatan Kreativitas Bangsa melalui MIPA dan Pembelajaran MIPA”. FKIP Universitas Jember.
- Loughran, J.J., Milroy, P., Berry, A., Gunstone, R.F., & Mulhall, P., (2001)., *Science Cases in Action: Documenting Science Teachers Pedagogical Content Knowledge through PAP-eRs*. *Research in Science Education*, 31 (1), 267-289.
- Loughran, J.J., (2004)., *Student teacher as researcher: Accepting greater responsibility for learning about teaching*., *Australian Journal of Education*, 48 (2), 213-221.
- Loughran, J.J. Berry, A. Mulhall, P. (2004). *In Search of Pedagogical Content Knowledge in Science: Developing Ways of Articulating and Documenting Professional Practice*. *Journal of Research in Science teaching*, 41(4), 370 - 391.
- Loughran, J.J. Berry, A. Mulhall, P. (2006). *Understanding and Developing Science Teachers' Pedagogical Content Knowledge*. Rotterdam : Sense Publishers.
- Loughran, J., Mulhall, P., & Berry, A. (2008). *Exploring pedagogical content knowledge in science teacher education*. *International Journal of Science Education*, 30(10), 1301–1320.
- Magnusson, S. J., (1991)., *The Relationship between Teachers' Content and Pedagogical Content Knowledge and Students' Content Knowledge of Head Energy and Temperature*., Unpublished doctoral dissertation, The University of Maryland, College Park, MD.
- Magnusson, S. Krajcik, J. & Borko, H. (1999). *Nature, Sources, and Development of Pedagogical Content Knowledge for Science Teaching. Examining Pedagogical Content Knowledge, The Construct and its Implications for*

Science Education. Science & Education Library: Volume: 6.USA: Association for the Education of Teachers in Science.

Martin, M, O., Wullis, I, T, S., Gonzales, E., Gregory, K, D., Smith, T, A., Chrystowski, S, J., Gardner, R, A., & O'Connor, M. (2005). *The Third International Mathematics and Science Study, International Science Repeat*. The International Association for the Evaluation of Educational Achievement.

McDermott, L, C. (1990). *A Perspective on Teacher Preparation in Physics and Other Sciences : The Need for Special Science Course for Teacher*. American Journal of Physics. 58(8) : 734-742.

McDermott, L, C., Shafferi, P, S., & Constantinou, C, P. (2000). *Prepering Teachers to Teach Physics and Physical Science b Inquiry*. Physics Education. 35(6) : 411-416.

National Research Concl. (1996). *National Science Education Standards*. Washington DC : National Academy Press

Nespor, J., (1987)., *The Role of Beliefs in the Practice of Teaching.*, *Journal of Curriculum Studies.*, (19) 317-328.

Nilsson, P. (2008). *Teaching for Understanding: The complex nature of pedagogical content knowledge in pre-service education*. International Journal of Science Education Vol. 30, No. 10, 13 August 2008, pp. 1281–1299

Nilsson, P. Dan Loughran, J. (2012). *Exploring the Development of Pre-Service Science Elementary Teachers' Pedagogical Content Knowledge*. J Sci Teacher Educ 23:699–721 DOI 10.1007/s10972-011-9239-y

Novak, J. D., & Gowin, D. B., (1985)., *Learning How to Learn.*, Cambridge, London, New York, Melbourne, Sidney., : Cambridge University Press.

NSTA & AETS. (2000). *Standards for Science Teacher Preparation*. National Science Teachers Association in Collaboration with The Association for The Education of Teachers in Science.

OECD., (2013). *PISA 2012 Result in Focus*, www.oecd.org

Park, S & Oliver, J.S. (2008). *National Board Certification (NBC) as a Catalyst for Teachers' Learning about Teaching: The Effects of the NBC Process on Candidate Teachers' PCK Development*. Journal Of Research In Science Teaching Vol. 45, No. 7, Pp. 812–834 (2008)

- Program Studi Pendidikan Fisika FKIP Unpatty., (2012)., *Evaluasi Diri Program Studi dan Kriteria Penilaian Mata Kuliah Perencanaan Pengajaran Fisika.*, Ambon.
- Pusat Kurikulum – Badan Penelitian dan Pengembangan, (2001). *Kurikulum Berbasis Kompetensi Mata Pelajaran Sains Sekolah Dasar*. Jakarta : Departemen Pendidikan Nasional
- Purwaningsih, W. (2011). *Pengembangan Program Pembekalan Pedagogical Content Knowledge (PCK) Bioteknologi melalui Perkuliahan Kapita Selekta Biologi SMA*. Disertasi. UPI Bandung : Sekolah Pasca Sarjana
- Resnick, I., (1987)., *Education and Learning to think.*, Washington, D.C., National Academy Press.
- Resnick, & Lauren B. (eds) (2005). *Teaching Teacher: Professional Development to Improve Student Achievement. Research Point. (3)*
- Rollnick, M., Bennett, J., Rhemtula, M., Dharsey, N., & Ndlovu, T., (2008)., *The Place of Subject Matter Knowledge in Pedagogical Content Knowledge: A Case Study of South African Teachers Teaching the Amount of Substance and Chemical Equilibrium.*, International Journal of Science Education., 30 (10), 1365 – 1387.
- Rutherford, F, J., & Ahlgren, A. (1990). *Science for All Americans*. Oxford, New York : Association for The Advancement of Science, Inc.
- _____ . *Benshmarks for science Literacy*.
- (<http://www.project2061.org/publications/bsl/online>)
- Sidi, I. D., (2000). *Pendidikan dan Peran Guru Dalam Era Globalisasi*, dalam majalah Komunika No. 25/tahun VIII.
- Satori, D., (1989), *Pengembangan Model Supervisi Sekolah Dasar*, Disertasi Doktor, Fakultas Pasca Sarjana- IKIP Bandung
- Shulman, L, S., (1986). *Those Who Understand : Knowledge Growth in Teaching*. Educational Research, 15, 4 – 14.
- Shulman, L.S. (1987). *Knowledge and teaching: Foundations of the new reform*. Harvard Educational Review, 57,1–22.
- Smith, J. P., & Neale, D. C., (1991)., *The Construction of Subject Matter Knowledge in Primary Science Teaching*, in J. Brophy (ed.), Advance in Research in Teaching, Vol. 2, Greenwich, CT. JAI Press, 187 – 243.

- Surya, M. (2005), *Profesi Guru Dalam Kenyataan dan Harapan*, Makalah Semiloka Nasional Profesionalisasi Pendidik dan Tenaga Kependidikan, , Bandung, FIP-UPI
- UNDP., (2013)., <http://hdr.undp.org/en/2013-report>
- Universitas Pattimura., (2012)., *Potret Kompetensi Guru Provinsi Maluku dan Alternatif Pengembangannya.*, Ambon.
- UPI., (2010)., *Re- Desain Pendidikan Profesional Guru, Ketetapan Senat Akademika UPI No: 005/Senat Akdk./UPI-SK/X/2010.*, Bandung: UPI Press.
- Van Driel, JH., De Jong, Verloop,N.(2002) *The Development of Preservice Chemistry Teachers' Pedagogical Content Knowledge*. Journal of Science Teacher Education (86), 572-59
- Wilson, S.M., Shulman, L.S.,&Richert, E.R. (1988). *'150 different ways' of knowing: Representations of knowledge in teaching*. In J. Calderhead (Ed.), *Exploring teachers' thinking* (pp. 104–124). New York: Taylor and Francis