

DAFTAR RUJUKAN

- Ahmadi, A. (1991). *Psikologi Sosial*. Jakarta: Rineka Cipta.
- Ahriani, F. (2013). Pengaruh model pembelajaran kooperatif dan gaya belajar terhadap hasil belajar kimia peserta didik kelas X SMK Negeri 2 Bantaeng. *Jurnal Chemica*. **14**, (1).
- Ali, M. S. dan Awan, A. S. (2013). Attitude towards science and its relationship with students' achievement in science. *Interdisciplinary Journal of Contemporary Research in Business (IJCRB)*. **4**, (10).
- Anderson, L.W. dan Krathwohl, D.R. (2001). *A Taxonomy for Learning, Teaching, and Assessing: a Revision of Blooms's Taxonomy of Educational Objectives*. New York: Addison Wesley Longman, Inc.
- Anggareni, N.W., Ristiati, N.P., dan Widiyanti. (2013). Implementasi strategi pembelajaran inkuiiri terhadap kemampuan berpikir kritis dan pemahaman konsep IPA siswa SMP. *E-Journal Program Pascasarjana Universitas Pendidikan Ganesha Program Studi IPA*. **3**.
- Ani, C.T. (2006). *Psikologi belajar*. Semarang: UPT UNNES Press.
- Anonimus*. (tanpa tahun). *Taenia Solium*. [Online]. Tersedia di:
<http://groupatty.wikispaces.com/Taenia+solium>. [Diakses pada 7 Juni 2014].
- Anonimus**. (tanpa tahun). *Taenia Saginata*. [Online]. Tersedia di:
<http://groupatty.wikispaces.com/Taenia+saginata>. [Diakses pada 7 Juni 2014].
- Azwar, S. (2009). *Sikap Manusia Teori dan Pengukurannya*. Yogyakarta: Pustaka Pelajar.
- Bambang, W. (2007). *Vertebrata Air*. Jakarta: Penebar Swadaya.
- Barnes, R.D. 1974. *Invertebrate Zoology*. 3rd ed: Philadelphia: W.B. Saunders Comp.
- Berg, E.C.D. (2011). Teaching the major invertebrate phyla in one laboratory session. *The American Biology Teacher*. **73**, (5), 281–284.

- Birkett, M.A. (2009). Every cell counts: an inquiry-based approach to address a novel research question in an undergraduate neuroscience lab. *The Journal of Undergraduate Neuroscience Education (JUNE)*. 7, (2), A53-A64.
- Borror, D.J., Triplehorn, C.A., dan Norman F.J. (1996). *Pengenalan Pelajaran Serangga*. Yogyakarta: UGM Press.
- Brotowidjoyo, M.D. (1990). *Zoologi Dasar*. Jakarta: Erlangga.
- Bundu, P. (2006). *Penilaian Keterampilan Proses dan Sikap Ilmiah dalam Pembelajaran Sains SD*. Jakarta: Depdiknas.
- Cakan, M., Mihladiz, G., dan Taskin, G. (2010). How portfolio use affects students' learning and their attitudes toward 6th grade science lesson. *International Online Journal of Educational Sciences (IOJES)*. 2, (2), 362-377.
- Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., dan Minorsky, P.V. (2008). *Biologi*. Edisi Kedelapan. Jilid 2. Jakarta: Erlangga.
- Carin, A. dan Sund R.B. (1997). *Teaching Science Through Discovery*. Columbus, Ohio: Merill Publishing Company.
- Cavas, B., Holbrook, J., Kask, K., dan Rannikmae, M. (2013). Development of an instrument to determine science teachers' implementation of inquiry based science education in their classrooms. *International Online Journal of Primary Education (IOJPE)*. 2, (2).
- Client, V.G. (2007). *Coelomate Deuterostomes*. [Online]. Tersedia di: <http://www.oceannin.com/guide/echino.htm>. [Diakses pada 30 Oktober 2009].
- Cohen, R. J., Swerdlik, M. E., dan Sturman, E. D. (2013). *Psychological Testing and Assessment: an Introduction to Tests and Measurement, 8th edition*. Queensland: Humanities and Social Sciences.
- Costa, A.L. (ed). (1985). *Developing Minds: A Resource Book for Teaching Thinking*. Alexandria: ASCD.
- Creswell, J.W. dan Clark, V.L.P. (2007). *Designing and Conducting: Mixed Methods Research*. Sage Publications, Inc.

- Dahar, R. W. (1989). *Teori-teori Belajar*. Jakarta: Erlangga.
- Daniel, S. dan Eliahu. Z. (2009). *A Hydra with Many Heads; Protein and Polypeptide Toxins from Hydra and Their Biological Roles*. [Online]. Tersedia di: <http://www.elsevier.com/locate.toxicon>. [Diakses pada 02 Agustus 2012].
- David dan Mooi. (1997). *Summary Phylogenetic Hypotesis of the Echinodermata*. [Online]. Tersedia di: <http://www.occ.cccd.edu/faculty/zoo.com>. [Diakses pada 16 Januari 2013].
- Dimyati dan Mudjiono. (2006). *Belajar dan Pembelajaran*. Jakarta: PT Rineka Cipta.
- Domin, D.S. (2007). Students' perceptions of when conceptual development occurs during laboratory instruction. *Journal of Chemistry Education Research and Practice*. **8**, (2), 140-152.
- Domin, D.S. (1999). "A review of laboratory instruction styles". *Journal of Chemical Education*. **76**, (4), 543-547.
- Ennis, R. H. (1985). A logical basis for measuring critical thinking skills. *Educational Leadership*, **43**, (1), 44–48.
- Ernst, J. dan Monroe, M. (2004). The effects of environment-based education on students' critical thinking skills and disposition toward critical thinking. *Environmental Education Research*. **10**, (4), 507-522.
- Exline. (2004). *Workshop: Inquiry-Based Learning*. [Online]. Tersedia di: http://www.thirteen.org/edonline/concept2class/inquiry/index_sub2.html. [Di akses pada 14 Desember 2011].
- Fatirul, A. (2008). *Model-model Pembelajaran Kooperatif*. Jakarta: Rineka Jaya.
- Filsaime, D.K. (2008). *Menguak Rahasia Berpikir Kritis dan Kreatif*. Alih Bahasa. Jakarta: PT. Prestasi Pustaka Raya.
- Fishbein, M. dan Ajzen, I. (1980). *Understanding Attitudes and Predicting Social Behavior*. Englewood Cliffs, New Jersey: Prentice Hall.
- Ghaffar, A. dan Brower, G. (2009). *Microbiology and Immunology Online*. University of South Carolina School of Medicine.

- Gulo. (2008). *Strategi Belajar Mengajar*. Jakarta: Gramedia Widiasarana Indonesia.
- Hafni, N.L., Isfaeni, H. dan Irnidayanti, Y. (2011). Peningkatan hasil belajar mahasiswa melalui pendekatan *heuristic vee* pada matakuliah zoologi. *BIOSFER*. **VII**, (2), 6-9.
- Hake, R. (1998). "Interactive-engagement vs traditional methods: a six-thousand-student survey of mechanics test data for introductory physics courses". *American Journal of Physics*. **66**, (1), 64-74.
- Hamalik, O. (2003). *Prosedur Belajar Mengajar*. Jakarta: Bumi Aksara.
- Harlen, W. (1992). *The Teaching of Science: Studies in Primary Education*. London: David Fulton Publishers.
- Hegner, R.W. dan Engemann, J.G. (1968). *Invertebrate Zoology*. Second Edition. New York: Mc Millan Publishing Co., Inc.
- Inch, E.S., Warnick, B., dan Endres, D. (2006). *Fifth Edition Critical Thinking and Communication: The Use of Reason in Argument*. Boston: Pearson Education Inc.
- Irwandi. (2009). Pengaruh pendekatan kontekstual dalam pembelajaran biologi melalui strategi inkuiri dan masyarakat belajar pada siswa dengan kemampuan awal berbeda terhadap hasil belajar kognitif di SMA Negeri Kota Bengkulu. *Jurnal Kependidikan Triadik*. **12**, (1).
- Jakowski. (2012). *Fasciola Hepatica Adult*. [Online]. Tersedia di: <http://ocw.tufts.edu/Content/72/imagegallery/1362317/1368958/1376048>. [Diakses pada 7 juni 2014].
- Johnson, E. B. (2002). *Contextual Teaching and Learning*. Thousand Oaks: Corwin Press, Inc.
- Jones, D. (1996). *Critical Thinking in a Online Word*. [Online]. Tersedia di: <http://www.library.ucsb.edu/untangle/jones.html>. [Diakses pada 12 Desember 2012].
- Kasjian, R. (2007). *Biologi Laut*. Jakarta: Djambatan.
- Katawi, Y. (2005). *Zoologi Avertebrata*. Malang: Jurusan Pendidikan Biologi FMIPA Universitas Negeri Malang.

- Ketpitchainarong, W., Panijpan, B., dan Ruenwongsa, W. (2010). Enhanced learning of biotechnology students by an inquiry-based cellulase laboratory. *International Journal of Environmental and Science Education*. **5**, (2), 169-187.
- Khan, M. dan Iqbal, M.Z. (2011). Effect of inquiry lab teaching method on the development of scientific skills through the teaching of biology in Pakistan. *Language In India*. **11**, 169-178.
- Kipnis, M. dan Hofstein, A. (2007). The inquiry laboratory as a source for development of metacognitive skills. *International Journal of Science and Mathematics Educations*. **5**, (2), 169-187.
- Kirchhoff, M. M. (2013). Review Of Green Organic Chemistry In Lecture And Laboratory. *Journal of Chemical Education*. **90**, (6), 683–684.
- Kotpal, R.L, Agarwal, dan Khetarpal. (1981). *Modern Textbook of Zoology Invertebrates. Fifth Edition*. India: Rastogi Publications. Shivaji Road. Meerut- 250. India.
- Krech, D., Crutchfield, R.S., dan Ballachey, E. (1962). *Individual in Society. a Textbook of Social Psychology*. San Fransisco: Mc Graw-Hill Book Company, Inc.
- Krulik, S. dan Rudnik, J. A. (1996). *The New Source Book Teaching Reasoning and Pbroblem Solving in Junior and Senior High School*. Massachusetts: Allyn & Bacon.
- Kundberg Gregory (1993). Analysis of discourse in small laboratory group. *Journal of Research in Science Teaching*. **33**, (7), 673-707.
- Lang, H.R. dan Evans, D.N. (2006). *Models, Strategies, and Methods for Effective Teaching*. USA: Pearson Education Inc.
- Lewis, R., Parker, B., Gaffin, D., dan Hoefnagels, M. (2007). *Life*. Sixth Edition. New York: The Mc Graw-Hill Companies, Inc.
- Liliasari. (2009). *Berpikir Kritis dalam Pembelajaran Sains Kimia Menuju Profesionalitas Guru*. [Online]. Tersedia di: http://fileupi.edu./Direktori/SPS/BERPIKIR_KRITIS_DALAM PEMBELAJARAN_09.pdf [Diakses pada 27 Oktober 2012].
- Lufri. (2007). *Strategi Pembelajaran Biologi*. Padang: UNP Press.

- Lufri. (2003). *Pembelajaran perkembangan hewan berbasis problem solving yang diintervensi dengan peta konsep dan pengaruhnya terhadap berfikir kritis dan hasil belajar mahasiswa biologi FMIPA UNP*. Disertasi Program Doktor Sekolah Pascasarjana). Universitas Negeri Malang, Malang.
- Maretasari, E. Subali, B. dan Hartono. (2012). Penerapan model pembelajaran inkuiiri terbimbing berbasis laboratorium untuk meningkatkan hasil belajar dan sikap ilmiah siswa. *Unnes Physics Education Journal (UPEJ)*. **1**, (2).
- Marshall, A.J. dan Williams, W.D. (1978). *Textbook of Zoology Volume 1: Invertebrates*. New York: Mc Millan Press Ltd.
- McGregor, D. (2007). *Developing Thinking Developing Learning: a Guide to Thinking Skills in Education*. Berkshire: Open University Press. McGraw-Hill.
- Meyers, C.L. (1986). *Teaching Student to Think Critically*. San Fransisco: Jassey-Blass Publishers.
- Narayan, R. (2010). A Comparative study of verbal discourse practices in traditional and inquiry-based undergraduate biology labs for non-science majors. *Educational Research and Review*. **5**, (10), 604-617.
- Narmadha, U. dan Chamundeswari, S. (2013). Attitude towards learning of science and academic achievement in science among students at the secondary level. *Journal of Sociological Research*. **4**, (2).
- Natawidjaja, R. (1986). *Penyusunan Instrumen Penelitian*. Bandung: IKIP Bandung Press.
- National Research Council. (2000). *Inquiry and the National Secience Education Standards: a Guide for Teaching and Learning*. [Online]. Tersedia di: <http://books.nap.edu/html/inquiryaddendum/notice.html>. [Diakses pada 12 Desember 2012].
- Norris, R.J. dan Ennis, R.H. (1989). *Evaluating Critical Thinking*. Pasific Grove, CA: Midwest.
- Nurhadi. (2004). *Pembelajaran Kontekstual dan Penerapannya dalam KBK*. Universitas Negeri Malang.

- Opara, J. A. (2011). Inquiry method and student academic achievement in biology: lessons and policy implications. *American-Eurasian Journal of Scientific Research*. **6**, (1), 28-31.
- Pabellon J.L. dan A. B. Mendoza. 2000. *Sourcebook on Practical Work for Teacher Trainers. High School Physics Volume 1*. Science and Math Education Manpower Development Project (SMEMDP) University of The Phillipine, Quezon City.
- Paula, M.O. (2000). *Issues of Origins in Zoology and a Genetics: a Look at the Evidence*. 26th International Faith and Learning Seminar. California, U.S.A.
- Pew, S. (2007). Andragogy and pedagogy as foundational theory for student motivation in higher education. *A Collection of Faculty Scholarship*. **2**.
- Popham, W. J. (2013). *Classroom Assessment: What Teachers Need to Know - 7th Edition*. Boston: Allyn and Bacon, Inc.
- Praptiwi, L. Sarwi, dan Handayani, L. (2012). Efektivitas model pembelajaran eksperimen inkuiiri terbimbing berbantuan *my own dictionary* untuk meningkatkan penguasaan konsep dan unjuk kerja siswa SMP RSBI. *UNNES Science Education Journal (USEJ)*. **1**, (2).
- Putra, R. A., Sudargo, F., Redjeki, S., dan Adianto. (2014). The analysis of concepts mastery and critical thinking skills on invertebrate zoologi course. *International Journal of Science and Research (IJSR)*. **3**, (3).
- Putra, R. A. dan Redjeki, S. (2013). Analisis sikap ilmiah mahasiswa terhadap perkuliahan sistematika invertebrata berbasis inkuiiri laboratorium. Dalam Prosiding Seminar Nasional “Arah Pendidikan MIPA Masa Depan; Antara Harapan dan Kenyataan”, FKIP Universitas Mataram, Mataram.
- Putri, D.M. dan Sutarno, M. (2012). Model kegiatan laboratorium berbasis *problem solving* pada pembelajaran gelombang dan optik untuk meningkatkan keterampilan proses sains mahasiswa. *Jurnal Exacta*. **X**, (2).
- Radiopoetro. (1991). *Zoologi*. FBIO UGM. Jakarta: Erlangga.
- Raigeluth, C.M. (1989). *Instructional Design: What is it and Why is it ?*. New Jersey: Lawrence Erlbaum Associates.

Riki Apriyandi Putra, 2014

Pengembangan program perkuliahan zoologi invertebrata berbasis inkuiiri laboratorium untuk meningkatkan keterampilan berpikir kritis dan sikap ilmiah mahasiswa Calon guru biologi

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

Rinehart. H. dan Winston. (1954). *An Introduction to Study of Insects*. Amerika: United Star of Amerika.

Roestiyah, N.K. (1998). *Strategi Belajar Mengajar*. Jakarta: Rineka Cipta.

Ruhmanika, T., Hayani, N.I., dan Kaspul. (2011). Peningkatan pemahaman konsep ekosistem melalui pembelajaran kooperatif tipe STAD pada siswa kelas VIIC SMP Negeri 19 Banjarmasin tahun pelajaran 2008/2009. *Jurnal Wahana-Bio*. V.

Russell, C. B. dan Weaver, G. C. (2008). "Student perceptions of the purpose and function of the laboratory in science: a grounded theory study". *International Journal for the Scholarship of Teaching and Learning*. 2, (2), 1-14.

Rustaman, N.Y., Dirdjosoemarto, S.A. Yudianto, Y., Achmad, R., Subekti, D., Rochintaniawati, M.K., dan Nurjhani. (2005). *Strategi Belajar Mengajar Biologi*, Malang: Universitas Negeri Malang.

Rusyana, A. (2011). *Zoologi Invertebrata (Teori dan Praktek)*. Bandung: Alfabeta.

Sagala, S. (2003). *Konsep dan Makna Pembelajaran*. Bandung: Alfabeta.

Santrock, J.W. 2010. *Psikologi Pendidikan Edisi Kedua*. Jakarta: Kencana.

Sardiman. (2007). *Interaksi dan Motivasi Belajar Mengajar*. Jakarta: Grafindo Persada.

Schafersman, S. D. (1991). *Introduction to Critical Thinking*. [Online]. Tersedia di: <http://www.freeinquiry.com/critical-thinking.html>. [Diakses pada 12 Desember 2012].

Sekar, P. (2013). The scientific attitude and reasoning ability of biology and computer group students. *Indian Journal of Applied Research*. 3, (8).

Setyaningrum, Y. dan Husamah. (2011). Optimalisasi penerapan pendidikan karakter di sekolah menengah berbasis keterampilan proses sebuah perspektif guru ipa biologi. *Jurnal Penenlitian Dan Pemikiran Pendidikan*. 1, (1).

- Sherman, I.W. dan Sherman, V.G. (1970). *The Invertebrates: Function and Form*. a Laboratory Guide. The Macmillan Company. Gollier-Macmillan Ltd. London.
- Shihusa, H. dan Keraro, F.N. (2009). Using advance organizers to enhance students' motivation in learning biology. *Eurasia Journal of Mathematics, Science & Technology Education*. **5**, (4), 413-420.
- Simpson, G.G. (1961). *Principles of Animal Taxonomy*. New York: Columbia University Press.
- Smaldino, S.E. (2005). *Instructional Technology and Media for Learning*. Columbus Ohio: New Jersey Upper Saddle River.
- Smith. S.A. (2011). Invertebrate resources on the internet. *ILAR Journal*. **52**, (2).
- Splitter, L.J. (1991). Critical thinking: what, why, when, and how educational philosophy and theory. *Journal of Education*. **23**, (1), 89-109.
- Storer, T.I. dan Usinger, R. L. (1979). *General Zoology*. New Delhi: TataMc Graw-Hill Publishing Company LTD.
- Stork, N.E. (1988). Insect diversity: facts, fiction, and speculation. *Biological Journal of the Linnean Society*. **35**, 321-337.
- Sudjana, N. (2011). *Penilaian Hasil Proses Belajar Mengajar*. Bandung: PT. Remaja Rosdakarya.
- Suparmi. (2012). Pembelajaran kooperatif dalam pendidikan multikultural. *Jurnal Pembangunan Pendidikan: Fondasi dan Aplikasi*. **1**, (1).
- Supriyatno, Hafni, N.L., dan Irnidayanti, Y. (2011). Pengembangan kegiatan praktikum berbasis inquiri melalui implementasi *science writing heuristic* (SWH) untuk meningkatkan kemampuan metakognitif siswa. *BIOSFER*. **VII**, (2), 1-5.
- Suroso, AY. (2002). *Ensiklopedi Sains dan Kehidupan*. Jakarta: CV Tarity Samudra Berlian.
- Suwignyo, S., Widigdo, Wardiatno., dan Krisanti. (2005). *Avertebrata Air Jilid 1*. Jakarta: Penebar Swadaya.

- Suwondo, Febrita, E., dan Suryana, A. (2013). Analisis aktivitas dan sikap ilmiah mahasiswa dengan model pengajaran langsung berbasis inkuiri pada mata kuliah sistematika invertebrata. *Jurnal Biologis*. **10**, (1).
- Taraban, R., Box, C., Myers, R., Pollard, R., dan Bowen, C.W. (2007). Effects of active-learning experiences on achievement, attitudes, and behaviors in high school biology. *Journal of Research in Science Teaching*. **44**, (7), 960–979.
- Tessier, J. (2010). An inquiry-based biology laboratory improves preservice elementary teachers' attitudes about science. *Journal of College Science Teaching*.
- Tibrani, M.M. dan Madang, K. (2012). Aktivitas belajar dan gain mahasiswa pada perkuliahan zoologi avertebrata setelah penerapan variasi tahap metode SQ3R. Dalam Prosiding Seminar Nasional “Penelitian, Pendidikan, dan Penerapan MIPA”, Fakultas MIPA, Universitas Negeri Yogyakarta. Yogyakarta.
- Tindagen, M. (2007). Implementasi strategi inkuiri biologi SMP serta pengaruhnya terhadap kemampuan berpikir tingkat tinggi. *Jurnal Didaktika*. **8**, (2).
- Ulya, S. Hindarto, N. dan Nurbaiti, U. (2013). Keefektifan model pembelajaran *guided inquiry* berbasis *think pair share* (TPS) dalam meningkatkan pemahaman konsep fisika kelas XI SMA. *UNNES Physics Education Journal (UPEJ)*. **2**, (3).
- Uno, H.B. (2009). *Teori Motivasi dan Pengukurannya*. Jakarta: Bumi Aksara.
- Vajoczki, S. dkk. (2011). Inquiry learning: level, discipline, class size, what matters?. *International Journal for the Scholarship of Teaching and Learning*. **5**, (1).
- Wenning, C. J. (2007). Assessing inquiry skills as a component of scientific literacy. *J. Phys. Tchr. Educ. Online*. **4**, (2).
- Wenning, C. J. (2011). Levels of inquiry model of science teaching: learning sequences to lesson plans. *J. Phys. Tchr. Educ. Online*. **6**, (2).
- Wessells, N.K. dan Hopson, J.L. (1988). *Biology*. New York: Random House, Inc.

- West, L.H.T & Pines, A.L. (1985). *Cognitive Structure and Conceptual Change*. London: Academic Press. Inc.
- Widjajanti, E., Marfuatun, dan Utomo, P. (2011). Upaya peningkatan pemahaman konseptual dan keterampilan proses ilmiah mahasiswa pada praktikum kimia fisika II melalui model daur belajar 7E. *Prosiding Seminar Nasional Kimia, Jurusan Pendidikan Kimia FMIPA, UNY*.
- Winston, J.E. (1999). *Describing Species: Practical Taxonomic Procedure for Biologists*. New York: Columbia University Press.
- Witteck, T. dkk. (2007). “A lesson plan on ‘methods of separating matter’ based on the learning company approach (a motivating frame for self-regulated and open lab-work in introductory secondary chemistry lessons)”. *Journal of Chemistry Education Research and Practice*. **8**, (2), 108-119.
- Yahya. (2012). Penerapan model pembelajaran kooperatif tipe *think pair and share* (TPS) dalam meningkatkan prestasi belajar siswa pada materi ciri-ciri makhluk hidup di SMP Negeri 2 Sakti Kabupaten Pidie. *Jurnal Pendidikan Serambi Ilmu*. **13**, (2).
- Yasar, S. dan Anagun, S.S. (2009). Reliability and validity studies of the science and technology course scientific attitude scale. *Journal of Turkish Science Education*. **6**, (2).