

## DAFTAR PUSTAKA

- AAAS. (1990). *Science for All Americans*. New York: Oxford University Press.
- Amabile, T. M. (1982). Social Psychology of Creativity: A Consensual Assessment Technique. *Journal of Personality and Social Psychology*, 43(5), 997-1013.
- Arikunto, S. (2013). *Dasar-dasar Evaluasi Pendidikan (Edisi 2)*. Jakarta: Bumi Aksara.
- Autor, D. H., Levy, F., & Murnane, R. J. (2003). The Skill Content of Recent Technological Change: An Empirical Exploration. *The Quarterly Journal of Economics*, 118(4), 1279-1333.
- Becker, K., & Park, K. (2011). Effects of integrative approaches among science, technology, engineering, and mathematics (STEM) subjects on students' learning: a preliminary meta-analysis. *Journal of STEM Education*, 12(5 & 6), 23-36.
- Besemer, S. P., & Treffinger, D. J. (1981). Analysis of Creative Products: Review and Synthesis. *The Journal of Creative Behavior*, 15(3), 158-178.
- Brown, R., Brown, J., Reardon, K., & Merrill, C. (2011). Understanding STEM: Current Perceptions. *Technology and Engineering Teacher*, 70(6), 5-9.
- Bybee, R. W. (2010). Advancing STEM Education: A 2020 Vision. *Technology and Engineering Teacher*, 70(1), 30-35.
- Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative, & Mixed Methods Approaches* (Fourth ed.). California: SAGE Publications, Inc.
- Damayanthi, E. (2017). *Pengaruh Penerapan Pembelajaran Berbasis STEM terhadap Keterampilan Rekayasa dan Sikap Ilmiah Siswa*. (Skripsi), Universitas Pendidikan Indonesia, Bandung.

**Uswatun Hasanah, 2018**

**PENGARUH PEMBELAJARAN BERBASIS STEM TERHADAP LITERASI TEKNOLOGI DAN KREATIVITAS PRODUK SISWA SMA PADA MATERI PENCEMARAN LINGKUNGAN**

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

- Gusdi, R., Wita, H., & Septiana, U. (2015). Pembuatan Alat Penyaringan Air Sederhana Dengan Metode Fisika. *Jurnal Nasional Ecopedon*, 4(1), 19-21.
- Hadzigeorgiou, Y., Fokialis, P., & Kabouropoulou, M. (2012). Thinking about Creativity in Science Education. *Scientific Research*, 3(5), 603-611.
- Haefele, J. W. (1962). *Creativity and Innovation*.
- Harwood, J., & Rudnitsky, A. (2005). *Learning about scientific inquiry through engineering*. Paper presented at the the 2005 ASEE Annual Conference, Portland.
- Hoeruni, Y. (2017). *Pengaruh Pembelajaran Berbasis STEM terhadap Keterampilan Rekayasa dan Keterampilan Berpikir Kreatif Siswa SMP*. UPI, Bandung.
- ITEA. (2000). *Standards for Technological Literacy: Content for the Study of Technology*. Reston, Virginia: ITEA.
- ITEEA. (2009). Proclamation: ITEEA's position on the "T"&"E" of STEM. Retrieved from <http://www.iteaconnect.org/AboutITEEA/STEMProclamation.pdf>
- Kelley, T. R., & Knowles, J. G. (2016). A conceptual framework for integrated STEM education. *International Journal of STEM Education*, 3(11).
- Kennedy, T. J., & Odell, M. R. L. (2014). Engaging Students In STEM Education. *Science Education International*, 25(3), 246-258.
- Khaerunnisa, N. F. (2017). *Pengaruh Pembelajaran Berbasis STEM terhadap Keterampilan Desain Produk pada Materi Ekosistem*. UPI, Bandung.
- Khalil, N. M., & Osman, K. (2017). STEM 21CS Module: Fostering 21st Century Skills through Integrated STEM. *K-12 STEM Education*, 3(3), 225-233.

**Uswatun Hasanah, 2018**

**PENGARUH PEMBELAJARAN BERBASIS STEM TERHADAP LITERASI TEKNOLOGI DAN KREATIVITAS PRODUK SISWA SMA PADA MATERI PENCEMARAN LINGKUNGAN**

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

- Komarudin, U. (2016). *Penggunaan E-Book Berbasis STEM Tema Pesawat Sederhana Untuk Meningkatkan Penguasaan Konsep Dan Technological Engineering Literacy Siswa*. (Tesis), Universitas Pendidikan Indonesia, Bandung.
- KOMINFO. (2015). *Siapa Mau Bonus? Peluang Demografi Indonesia*. Jakarta: KOMINFO.
- Krupczak, J., & Disney, K. A. (2013). *Technological Literacy: Assessment and Measurement of Learning Gains*. Paper presented at the 120th ASEE Annual Conference & Exposition.
- Lestari, D. (2017). *Pengaruh Pembelajaran Berbasis STEM terhadap keterampilan Rekayasa dan Penguasaan Konsep Siswa pada Materi Pencemaran Udara*. (Skripsi), Universitas Pendidikan Indonesia, Bandung.
- Lou, S. J., Liu, Y. H., Shih, R. C., & Tseng, K. H. (2010). The senior high school students' learning behavioral model of STEM in PBL. *International Journal of Technology Design Education*, 21, 161-183.
- Mayasari, T., Kadarohman, A., Rusdiana, D., & Kaniawati, I. (2016). *Exploration of student's creativity by integrating STEM knowledge into creative products*. Paper presented at the International Seminar on Mathematics, Science, and Computer Science Education (MSCEIS 2015).
- Muchyar, L. D. H., Widodo, A., & Riandi. (2015). Profil Perubahan Konseptual Siswa pada Materi Kependudukan dan Pencemaran Lingkungan. *Jurnal Pengajaran MIPA*, 20(1), 65-75.
- Munandar, U. (2012). *Pengembangan Kreativitas Anak Berbakat*. Jakarta: PT. RINEKA CIPTA.
- NAE, & NRC. (2006). *Tech Tally: Approaches to Assessing Technological Literacy*. Washington, D.C: National Academies Press.

**Uswatun Hasanah, 2018**

**PENGARUH PEMBELAJARAN BERBASIS STEM TERHADAP LITERASI  
TEKNOLOGI DAN KREATIVITAS PRODUK SISWA SMA PADA MATERI  
PENCEMARAN LINGKUNGAN**

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

- NAE, & NRC. (2009). *Engineering in K-12 education: Understanding the status and improving the prospects*. Washington, D.C.: National Academies Press.
- NAEP. (2014). *2014 Abridge Technology and Engineering Literacy Framework*. Retrieved from Washington, D.C: NAGB.
- NRC. (2014). *STEM Integration in K-12 Education: Status, Prospects, and an Agenda for Research*. Washington, D.C.: National Academies Press.
- Reis, S. M., & Renzulli, J. S. (1991). The Assessment of Creative Products in Programs for Gifted and Talented Student. *Gifted Child Quarterly*, 35(3), 128-134.
- Rockland, R., Bloom, D. S., Carpinelli, J., Burr-Alexander, L., Hirsch, L. S., & Kimmel, H. (2010). Advancing the "E" in K-12 STEM Education. *Journal of Technology Studies*, 36(1), 53-64.
- Rusmana, A. N. (2017). *Implementasi Pembelajaran IPA Biologi Berbasis STEM dalam Meningkatkan Keterampilan Rekayasa dan Penguasaan Konsep Siswa SMP*. (Skripsi), Universitas Pendidikan Indonesia, Bandung.
- Rustaman, N., Sriyati, S., Wulan, A. R., & Rustaman, A. (2014). *Handout Evaluasi Pembelajaran*. Bandung: Departemen Pendidikan Biologi UPI.
- Schmidt, A. L. (2011). Creativity in Science: Tensions between Perception and Practice. *Creative Education*, 2(5), 435-445.
- Sudjana. (2005). *Metode statistika*. Bandung: PT. Tarsito.
- Sudjana, N. (1989). *Penilaian Hasil Proses Belajar Mengajar*. Bandung: Remaja Rosdakarya.
- Sugiarto, A., & Djukri. (2015). Pembelajaran Berbasis SETS Sebagai Upaya Meningkatkan Kreativitas Dalam Pemecahan Masalah Pencemaran Lingkungan. *Jurnal Inovasi Pendidikan IPA*, 1(1), 1-11.

**Uswatun Hasanah, 2018**

**PENGARUH PEMBELAJARAN BERBASIS STEM TERHADAP LITERASI TEKNOLOGI DAN KREATIVITAS PRODUK SISWA SMA PADA MATERI PENCEMARAN LINGKUNGAN**

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

- Supranata, S. (2006). *Analisis Validitas, Reliabilitas dan Interpretasi Hasil Tes*. Bandung: PT. Remaja Rosdakarya.
- Suprpto, N. (2016). Students' Attitudes towards STEM Education: Voices from Indonesian Junior High Schools. *Journal of Turkish Science Education*(13 (Special Issue), 75-87.
- Surtikanti, H. K. (2011). *Toksikologi Lingkungan dan Metode Uji Hayati*. Bandung: Rizki Press.
- Suwarma, I. R., Astuti, P., & Endah, E. N. (2015). "Balloon Powered Car" Sebagai Media Pembelajaran IPA Berbasis STEM (Science, Technology, Engineering, And Mathematics). Paper presented at the Simposium Nasional Inovasi dan Pembelajaran Sains 2015 (SNIPS 2015) Bandung.
- Thomas, B., & Watters, J. J. (2015). Perspectives on Australian, Indian and Malaysian approaches to STEM education *International Journal of Educational Development*, 45, 42-53.
- Torrance, E. P. (1988). *The nature of creativity asanifest in its test*. New York: Cambridge University Press.
- Triling, B., & Fadel, C. (2009). *21st century skills: Learning for Life in Our Times*. San Fransisco: Wiley.
- Winarni, J., Zubaidah, S., & H., S. K. (2016). *STEM: Apa, Mengapa, dan Bagaimana*. Paper presented at the Seminar Pend. IPA Pascasarjana Universitas Negeri Malang, Malang.
- Yenni, R., Hernani, & Widodo, A. (2016). *The Implementation of Integrated Science Teaching Materials Based Socio-scientific Issues to Improve Students Scientific Literacy for Environmental Pollution Theme*. Paper presented at the Mathematics, Science, and Computer Science Education (MSCEIS 2016), Bandung.

**Uswatun Hasanah, 2018**

**PENGARUH PEMBELAJARAN BERBASIS STEM TERHADAP LITERASI  
TEKNOLOGI DAN KREATIVITAS PRODUK SISWA SMA PADA MATERI  
PENCEMARAN LINGKUNGAN**

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