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**IMPLEMENTASI *EDUCATION SUSTAINABLE DEVELOPMENT* (ESD)  
DAN PROFIL CAPAIAN EKOLITERASI SISWA DI SEKOLAH DASAR  
ADIWIYATA MANDIRI**

**SKRIPSI**

Diajukan sebagai syarat memenuhi tugas akhir untuk memperoleh gelar sarjana  
Pendidikan Guru Sekolah Dasar



oleh

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**FAKULTAS ILMU PENDIDIKAN**

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**IMPLEMENTASI *EDUCATION SUSTAINABLE DEVELOPMENT* (ESD)  
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Sebuah skripsi yang diajukan untuk memenuhi salah satu syarat dalam memperoleh gelar Sarjana Pendidikan pada Program Studi Pendidikan Guru Sekolah Dasar

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**DAN PROFIL CAPAIAN EKOLITERASI SISWA DI SEKOLAH DASAR**  
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**ABSTRAK**

Penelitian ini bertujuan untuk menganalisis implementasi *Education Sustainable Development* (ESD) dan profil capaian ekoliterasi siswa pada Sekolah Dasar Adiwiyata Mandiri. Penelitian ini merupakan penelitian kualitatif dengan desain yang digunakan yaitu studi kasus. Subjek penelitian sebanyak 6 siswa yang terdiri dari 3 siswa kelas IV dan 3 siswa kelas V. Instrumen yang digunakan terdiri dari lembar tes kognitif ekoliterasi, pedoman wawancara ekoliterasi aspek afektif dan psikomotor untuk siswa, pedoman wawancara ekoliterasi aspek afektif dan psikomotor siswa bersama dengan guru, lembar observasi ekoliterasi aspek afektif, lembar observasi proses pembelajaran terkait ESD, dan lembar analisis studi dokumentasi modul ajar terkait ESD. Hasil temuan dari penelitian ini 1) Implementasi ESD di SD Adiwiyata Mandiri ditunjukkan dengan adanya keterkaitan antara tujuan pembelajaran, kegiatan pembelajaran dan asesmen dengan indikator-indikator yang terdapat di dalam ESD. 2) Proses pembelajaran pada materi tertentu di kelas IV dan V di SD Adiwiyata Mandiri terintegrasi dengan indikator yang ada di dalam ESD. 3) Profil ekoliterasi siswa di SD Adiwiyata Mandiri pada kelas IV dan V, mayoritas sudah dapat cukup memenuhi ekoliterasi pada aspek kognitif, afektif dan psikomotor beserta indikator yang ada di dalamnya, meskipun masih ada beberapa siswa yang sedikit belum sesuai dalam beberapa indikator.

**Kata Kunci :** Implementasi, ESD, Ekoliterasi, Adiwiyata.

**IMPLEMENTATION OF EDUCATION SUSTAINABLE DEVELOPMENT (ESD)**

**AND ACHIEVEMENTS OF STUDENT ECOLITERACY PROFILE**

**AT ADIWIYATA MANDIRI ELEMENTARY SCHOOL**

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**ABSTRACT**

*This research aims to analyze the implementation of Education Sustainable Development (ESD) and the achievement of students' ecoliteracy profile in Adiwiyata Mandiri Elementary School. This research is a qualitative research with the design used is a case study. The research subjects were 6 students consisting of 3 fourth grade students and 3 fifth grade students. The instruments used consisted of ecoliteracy cognitive test sheet, ecoliteracy interview guidelines for affective and psychomotor aspects for students, ecoliteracy interview guidelines for affective and psychomotor aspects of students together with teachers, ecoliteracy observation sheets for affective aspects, observation sheets for ESD-related learning processes, and documentation study analysis sheets for ESD-related teaching modules. The findings of this study 1) The implementation of ESD in Adiwiyata Mandiri Elementary School is shown by the linkage between learning objectives, learning activities and assessments with indicators contained in ESD. 2) The learning process on certain materials in class IV and V at Adiwiyata Mandiri Elementary School is integrated with the indicators in ESD. 3) The ecoliteracy profile of students at Adiwiyata Mandiri Elementary School in grades IV and V, the majority can adequately fulfill ecoliteracy in cognitive, affective and psychomotor aspects along with the indicators contained therein, although there are still some students who are slightly inappropriate in some indicators.*

**Keywords:** *Implementation, ESD, Ecoliteracy, Adiwiyata.*

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## DAFTAR PUSTAKA

- Abu, A. D., Subur, S., & Irra Wahidiyati. (2023). *Strengthening character education caring for the environment based on Adiwiyata Mandiri in high school*. *Cypriot Journal of Educational Sciences*, 18(1), 327–338. <https://doi.org/10.18844/cjes.v18i1.8497>
- Ajri, A., & Diyana, T. (2023). *JKPI: Jurnal Kajian Pendidikan IPA*. *JKPI: Jurnal Kajian Pendidikan IPA*, 3(2), 223–234.
- Akuntansi, P. S. (2022). *1\**, 2 1,2. 20(1), 105–123.
- Alexandra DORNEANU1, P. student, HAPENCIUC, Cristian-Valentin PhD., P. O. 0000-0002-2619-1146, & Daniela NEAMȚU3, PhD., A. lect. O. 0000-0002-8488-0900. (2022). *Education For Sustainable Development At The Level Of Technological Colleges During The Pandemic Period*. *Journal of Education for Sustainable Development*, 5(2), 245–249. <https://doi.org/https://doi.org/10.52326/csd2022.09>
- Andriyani, D., & Suhartono. (2019). *Learning improvement efforts through reflective studies in elementary schools*. *Universal Journal of Educational Research*, 7(12), 2734–2741. <https://doi.org/10.13189/ujer.2019.071222>
- Antunes, Q. P., Fernandes, G. N. A., & Lemos, S. M. A. (2022). *Behavioral aspects and learning motivation: A study of middle school adolescents*. *Codas*, 34(5), 1–8. <https://doi.org/10.1590/2317-1782/20212021119>
- Arora, P. (2023). *Life below land: the need for a new sustainable development goal*. *Frontiers in Environmental Science*, 11(June), 1–5. <https://doi.org/10.3389/fenvs.2023.1215282>
- Artemyeva, T., Mendelevich, V., & Akhmetzyanova, A. (2022). *Prognostic competence as a criterion for the mental health of primary schoolchildren with psychological development disorders*. *European Psychiatry*, 65(S1), S692–S692. <https://doi.org/10.1192/j.eurpsy.2022.1782>
- Assyakurrohim, D., Ikham, D., Sirodj, R. A., & Afgani, M. W. (2022). *Metode Studi Kasus dalam Penelitian Kualitatif*. *Jurnal Pendidikan Sains Dan Komputer*, 3(01), 1–9. <https://doi.org/10.47709/jpsk.v3i01.1951>
- Bassachs, M., Cañabate, D., Nogué, L., Serra, T., Bubnys, R., & Colomer, J. (2020). *Fostering critical reflection in primary education through STEAM approaches*. *Education Sciences*, 10(12), 1–14. <https://doi.org/10.3390/educsci10120384>
- Bassachs, M., Cañabate, D., Serra, T., & Colomer, J. (2020). *Interdisciplinary cooperative educational approaches to foster knowledge and competences for sustainable development*. *Sustainability (Switzerland)*, 12(20), 1–17.

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- <https://doi.org/10.3390/su12208624>
- Bordoloi, S., & Saikia, H. (2022). *Education for Sustainable Development: Some Initiatives Towards Sustainable Development With Reference To North East Region of India. International Journal of Advanced Research*, 10(05), 96–100. <https://doi.org/10.21474/ijar01/14682>
- Brennan, M., & Sabogal-Paz, L. P. (2023). *Education for sustainable development. Handbook Transdisciplinary Learning*, 8(9), 93–102. <https://doi.org/10.14361/9783839463475-011>
- Budiyanto, C., & Widiastuti, I. (2018). *Hands-on learning on renewable energy - A proposed approach for technology dissemination. AIP Conference Proceedings, 1977*(June 2018). <https://doi.org/10.1063/1.5043029>
- CHAIKOVSKA, H. (2022). *Formation of Esd Competencies in Teachers of Primary Classes in the Process of Professional Training. The Scientific Issues of Ternopil Volodymyr Hnatiuk National Pedagogical University. Series: Pedagogy*, 1(1), 72–80. <https://doi.org/10.25128/2415-3605.22.1.9>
- Curren, R. (2009). *Education for sustainable development: A philosophical assessment. In Impact* (Vol. 2009, Issue 18). <https://doi.org/10.1111/j.2048-416x.2009.tb00140.x>
- Dahlanti, R. (2023). Penerapan *Fish Bowl Technique* untuk Meningkatkan Aktivitas Belajar Siswa pada Mata Pelajaran Ilmu Pengetahuan Alam Kelas V Sekolah Dasar Negeri 005 Empat Balai Kuok. *Milenial: Journal for Teachers and Learning*, 3(2), 74–83. <https://doi.org/10.55748/mjtl.v3i2.158>
- Damian, D. (2023). *Learning the Concept of Sustainability: Interdisciplinary Activities @Primary Education. EGU General Assembly 2023*. <https://doi.org/https://doi.org/10.5194/egusphere-egu23-2194>
- Davy, J. M. (2020). *The Anticipatory Competent Student BT - The Power of Anticipatory Images in Student Achievement* (J. M. Davy (ed.); pp. 133–156). Springer International Publishing. [https://doi.org/10.1007/978-3-030-56334-9\\_7](https://doi.org/10.1007/978-3-030-56334-9_7)
- Desfandi, M., Maryani, E., & Disman. (2017). *Building Ecoliteracy Through Adiwiyata Program (Study at Adiwiyata School in Banda Aceh). Indonesian Journal of Geography*, 49(1), 51–56. <https://doi.org/10.22146/ijg.11230>
- Dettori, A., Caboni, F., & Giudici, E. (2017). *Education and Sustainability: The Case of Emotions Park. Journal of Management and Sustainability*, 7(4), 65. <https://doi.org/10.5539/jms.v7n4p65>
- Dutta, S., He, M., & Tsang, D. C. W. (2023). *Reflection and peer assessment to promote self-*

- directed learning in higher education*. 11(March), 35–46. <https://doi.org/10.33495/jerr>
- Ecoliteracy, T., Kelas, S., Sd, I. V., & Materi, P. (2023). *Eva Andriyani, 2023 Pengembangan Modul Ajar Berbasis Pjbl Terhadap Ecoliteracy Siswa Kelas IV SD Pada Materi SDA Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu*. 1–8.
- ESTHI, F. G. (2019). Analisis Gaya Hidup Imitasi Remaja dalam Komunitas Maranatha *Youthteen di Ungaran*. 28–34.
- Faujiyah, P. Y. (2019). *Social Emotional Learning in Increasing the Social Emotional and Academic Development of Children in Early Childhood Education*. 330(Iceri 2018), 462–467.
- Faustino, A., & Kaur, I. (2023). *Education and Sustainable Development*. *Asian Journal of Advanced Research and Reports*, 17(7), 97–101. <https://doi.org/10.9734/ajarr/2023/v17i7497>
- Görel, G., & Hellmich, F. (2022). *Primary School Principals' Views on the Required Conditions for a Successful Implementation of Inclusive Education*. *Australasian Journal of Special and Inclusive Education*, 46(2), 127–137. <https://doi.org/10.1017/jsi.2022.9>
- Gratani, F., Giannandrea, L., Renieri, A., & Annessi, M. (2021). *Fostering Students' Problem-Solving Skills Through Educational Robotics in Primary School BT - Education in & with Robotics to Foster 21st-Century Skills* (M. Malvezzi, D. Alimisis, & M. Moro (eds.); pp. 3–14). Springer International Publishing.
- Gresch, H. (2011). *Decision-making Strategies and Self-regulated Learning: Fostering Decision-making Competence in Education for Sustainable Development*.
- Guanio-Uluru, L. (2019). *Education for Sustainability: Developing Ecocritical Literature Circles in the Student Teacher Classroom*. *Discourse and Communication for Sustainable Education*, 10(1), 5–19. <https://doi.org/10.2478/dcse-2019-0002>
- Gunansyah, G., Zuhdi, U., Suprayitno, S., & Aisy, M. R. (2021). *Sustainable development education practices in elementary schools*. *Journal of Education and Learning (EduLearn)*, 15(2), 178–187. <https://doi.org/10.11591/edulearn.v15i2.17091>
- Ha, C., Chen, Y., Zhang, J., & Dong, S. (2023). *The effectiveness of lifestyle interventions on ecological literacy: A contribution to the underlying mechanism in linguistic ecology*. *PLoS ONE*, 18(6 June), 1–25. <https://doi.org/10.1371/journal.pone.0287286>
- Ha, C., & Dong, S. (2023). *Identifying the Most Ecoliterate Inhabitants in a Top-Ten Ecologically Advanced City of China: A Sociodemographic Perspective*. *Sustainability (Switzerland)*, 15(4), 1–18. <https://doi.org/10.3390/su15043054>

- Halkos, G., & Gkampoura, E.-C. (2021). *Munich Personal RePEc Archive Reviewing the 17 Sustainable Development Goals: Importance and Progress*. *Journal of Sustainable Development & World Ecology*, 26(4), 282–289.
- Hamilton, J. G. M. (1972). Community Medicine. *British Medical Journal*, 1(5800), 625. <https://doi.org/10.1136/bmj.1.5800.625>
- Haniyah, A., & Hamdu, G. (2022). Analisis Kemampuan Berpikir Sistem Berbasis *Education for Sustainable Development* di Sekolah Dasar. *PEDADIDAKTIKA: Jurnal Ilmiah Pendidikan Guru Sekolah Dasar*, 9(2), 207–220. <https://doi.org/10.17509/pedadidaktika.v9i2.53038>
- Hayati, E. M., Purwanto, A., & Hidayat, D. R. (2023). *Analysis of the Cooperative Learning Effectiveness on Students' Critical Thinking Skills in Science Learning for Primary Students*. *AL-ISHLAH: Jurnal Pendidikan*, 15(1), 1145–1153. <https://doi.org/10.35445/alishlah.v15i1.994>
- Henriksson, A. C. (2023). *Primary school students' perceptions of a sustainable future in the context of a Storyline project*. *Lumat*, 11(1), 69–90. <https://doi.org/10.31129/LUMAT.11.1.1879>
- Hwang, Young-Ho. Park, J.-K. (2014). *The Effects of Creative Hands-on Activities using Effective Microorganisms on Elementary School Students' Environmental Literacy* Hwang, . 535, 524–535. <https://doi.org/http://dx.doi.org/10.15267/keses.2014.33.3.524>
- Iii, B. A. B., & Pendekatan, A. J. (2015). *Studi Kasus Journal*. 47–55.
- Iii, B. A. B., & Penelitian, M. (2021). *Rima Suwartiningsih Suwanto, 2021 Implementasi Education For Sustainable Development dan Pencapaian Sustainability Consciousness Siswa D I Sekolah Ad Iwiyata D An Sekolah Berbasis Esd Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan*. 1–8.
- Iswari, R. D., & Utomo, S. W. (2017). *Evaluasi Penerapan Program Adiwiyata Untuk Membentuk Perilaku Peduli Lingkungan di Kalangan Siswa (Kasus: SMA Negeri 9 Tangerang Selatan dan MA Negeri 1 Serpong)*. 20–69. <https://doi.org/https://doi.org/10.14710/jil.15.1.35-41>
- Kadrija, R., Shatri, Z. G., Haxhijaha, E., & Mulliqi, S. (2023). *The Impact of Critical Thinking on How Learning Outcomes are Evaluated in Primary Schools*. *Journal of Educational and Social Research*, 13(4), 302–310. <https://doi.org/10.36941/jesr-2023-0110>
- Kalathaki, M. (2017). *Ensuring Active Participation in School Projects: A Reflection Case Study in the Framework of Education for the Sustainable Development*. *Journal of Social*



- Science Studies*, 4(2), 57. <https://doi.org/10.5296/jsss.v4i2.10938>
- Kaur, G., & Mehndroo, M. (2022). *Education and enlightenment for sustainable development. International Journal of Health Sciences*, 6(March), 7525–7530. <https://doi.org/10.53730/ijhs.v6ns2.6810>
- Kioupi, V., & Voulvoulis, N. (2022). *Assessing Learning Outcomes for Sustainability in Primary and Secondary Schools in the UK BT - Education for Sustainable Development in Primary and Secondary Schools: Pedagogical and Practical Approaches for Teachers* (G. Karaarslan-Semiz (ed.); pp. 221–246). Springer International Publishing. [https://doi.org/10.1007/978-3-031-09112-4\\_16](https://doi.org/10.1007/978-3-031-09112-4_16)
- Lendrum, A. (2010). *Implementing Social and Emotional Aspects of Learning (SEAL) in Secondary Schools in England: Issues and Implications A thesis submitted to the University of Manchester for the degree.*
- Lestari, H., Ali, M., Sopandi, W., & Wulan, A. R. (2022). *Integration of sustainable development education into thematic learning in elementary schools. AIP Conference Proceedings*, 2468(1), 60005. <https://doi.org/10.1063/5.0102663>
- LIONENKO, M. (2022). *Methodological Features of Formation of the Culture of Critical Thinking of Primary Schoolchildren. The Scientific Issues of Ternopil Volodymyr Hnatiuk National Pedagogical University. Series: Pedagogy*, 1(2), 28–34. <https://doi.org/10.25128/2415-3605.21.2.4>
- Mageswary, Igbokwe, Nunez, M. B., Clores, M. A., Shamuganathan, S., & Karpudewan, B. A. (2016). *Environmental Literacy Assessment: Assessing The Strength OF An Environmental Education Program (EcoSchools) In Ontario Secondary Schools For Environmental Literacy Acquisition. International Journal of Environmental and Science Education*, 10(5), 757–771. <https://scholar.uwindsor.ca/cgi/viewcontent.cgi?article=6643&context=etd>
- Margareth, H. (2017). No Title طرق تدريس اللغة العربية. *Экономика Региона*, 32.
- Maria, Y., & Mujiburrahman. (2018). Pengaruh Metode *Fishbowl* terhadap Hasil Belajar Siswa pada Mata Pelajaran IPS Terpadu Kelas VIII di MTs AL-Akhyar Bagik Polak Kabupaten Lombok Barat Tahun Pelajaran 2015/2016. *Jurnal Realita*, 2(1), 231–233.
- Maryatmo, P. S., Indriayu, M., & Tatminingsih, S. (2023). Implementasi Program Adiwiyata Nasional Berbasis Kearifan Lokal di SMP Negeri 1 Ngadirojo. *MENDIDIK: Jurnal Kajian Pendidikan Dan Pengajaran*, 9(1), 62–67. <https://doi.org/10.30653/003.202391.3>
- Matei, F. L., & Mitić Coman, A. R. (2023). *Modern assessment methods in primary education.*

- Journal of Education, Society & Multiculturalism*, 4(1), 211–224.  
<https://doi.org/10.2478/jesm-2023-0011>
- Maulana, M. A., Kanzunnudin, M., & Masfuah, S. (2021). Analisis Ekoliterasi Siswa pada Sekolah Adiwiyata Di Sekolah Dasar. *Jurnal Basicedu*, 5(4), 2601–2610.  
<https://jbasic.org/index.php/basicedu/article/view/1263>
- McCaw, C. (2022). *Education for Sustainability: Learning from and with living systems*. *Green Energy and Technology*, 1, 243–248.
- Mishra, M., Desul, S., Santos, C. A. G., Mishra, S. K., Kamal, A. H. M., Goswami, S., Kalumba, A. M., Biswal, R., da Silva, R. M., dos Santos, C. A. C., & Baral, K. (2023). *A bibliometric analysis of sustainable development goals (SDGs): a review of progress, challenges, and opportunities*. In *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-023-03225-w>
- Mu'ammam, M. A., & Badri, M. (2022). *Instillation of The Value of Caring for the Environment at Elementary Students in Pamekasan, Indonesia*. *Journal of Pedagogy and Education Science*, 1(02), 108–116. <https://doi.org/10.56741/jpes.v1i02.78>
- Mubarok, H., Anggraini, D. M., & Charis, A. (2023). *The Urgency of Critical Thinking Character for Elementry Student*. *Quality*, 11(1), 97.  
<https://doi.org/10.21043/quality.v11i1.20523>
- Mulyadiprana, A., Yulianto, A., Hamdu, G., & Putri, A. R. (2022). Rancang Bangun Kegiatan Pengenalan *Green Behavior*: Penerapan Program ESD di Sekolah Dasar. *Edukatif: Jurnal Ilmu Pendidikan*, 4(2), 2370–2377. <https://doi.org/10.31004/edukatif.v4i2.2344>
- Mulyasari, E., Ali, M., & Sukirman, D. (2021). *Building Student ' s Character in Primary School Through Sustainable Development Goals ( SDGs ) of School Program*. 30–35.
- Nadiroh, N., Hasanah, U., & Zulfa, V. (2019). *Behavioral geography: An ecoliteracy perspective and critical thinking skills in men and women*. *Indonesian Journal of Geography*, 51(2), 115–122. <https://doi.org/10.22146/ijg.36784>
- Nuraeni, N., & Gunawan, I. M. S. (2022). *Internalization of Maritime Cultural Values Through Education to Grow Early Childhood Awareness: a Review*. *Prisma Sains : Jurnal Pengkajian Ilmu Dan Pembelajaran Matematika Dan IPA IKIP Mataram*, 10(1), 131.  
<https://doi.org/10.33394/j-ps.v10i1.4551>
- Ormonoy, T. (2022). *The Importance of Solving Math Problems in Elementary School*. *Indonesian Journal of Education Methods Development*, 17(4), 1–8.  
<https://doi.org/10.21070/ijemd.v20i.628>

- Ott, A. (2023). *Utopia in environmental and sustainability education: imagination, transformation, and transgression*. *Environmental Education Research*, 29(5), 675–691. <https://doi.org/10.1080/13504622.2022.2102583>
- Oyuntsetseg Densmaa, Gerelchimeg Kaliinaa, T. S. (2022). *Theoretical Issues Of Sustainable Development Education And Education System Security*. *International Journal of Innovative Technologies in Social Science*, 3(March), 31–34. [https://doi.org/https://doi.org/10.31435/rsglobal\\_ijitss/30062022/7807](https://doi.org/https://doi.org/10.31435/rsglobal_ijitss/30062022/7807)
- Palakhi Kalita. (2023). *Role of Education for Sustainable Development*. *Tuijin Jishu/Journal of Propulsion Technology*, 44(3), 2208–2211. <https://doi.org/10.52783/tjjpt.v44.i3.681>
- Panalar, A. (2020). Analisis Strategi Pengelolaan Ambidexterity Antara Rasionalitas Dan Kreativitas (*Studi Kasus 3 UKM Studio Video Game*). 55–72. [https://dspace.uii.ac.id/bitstream/handle/123456789/20398/05.3\\_bab3.pdf?sequence=7&isAllowed=y](https://dspace.uii.ac.id/bitstream/handle/123456789/20398/05.3_bab3.pdf?sequence=7&isAllowed=y)
- PORANCEA-RĂULEA, A. S. (2023). *the Impact of Sustainability Knowledge*. November, 351–357. <https://doi.org/10.24818/imc/2022/02.11>
- Pouliot, V., & Thérien, J.-P. (Eds.). (2023). *The Sustainable Development Goals: Planning without a Blueprint*. In *Global Policymaking: The Patchwork of Global Governance* (pp. 77–104). Cambridge University Press. <https://doi.org/DOI:10.1017/9781009344999.005>
- Prasetyo, T. (2021). Pendekatan Pembelajaran Berpusat Pada Siswa. *Journal Pendidikan Dasar, Universitas Negeri Jakarts, September*, 1–23.
- Prastiwi, L., Sigit, D. V., & Ristanto, R. H. (2019). *Ecological Literacy, Environmental Awareness, Academic Ability and Environmental Problem-Solving Skill at Adiwiyata School*. *Indonesian Journal of Science and Education*, 3(2), 82. <https://doi.org/10.31002/ijose.v3i2.1114>
- Reid, K., & Morgan, N. S. (2012). *Tackling Behaviour in your Primary School: A practical handbook for teachers*.
- Ridlo, U. (2023). Metode Penelitian Studi Kasus: Teori dan Praktik. In *Uinjkt.Ac.Id*. <https://notes.its.ac.id/tonydwisusanto/2020/08/30/metode-penelitian-studi-kasus-case-study/>
- Robert B. Stevenson. (2022). *Approaches to Education for Sustainability*. *Oxford Research Encyclopedias*. <https://doi.org/https://doi.org/10.1093/acrefore/9780190264093.013.93>
- Robles-moral, F. J. (2021). *Learning about Sustainability and SDG with Future Primary Education Teachers in Initial Training*.

- Rosiński, J. (2023). *The role of education in sustainable development. Organizing Sustainable Development*, 4, 218–234. <https://doi.org/10.4324/9781003379409-20>
- Rusandi, & Muhammad Rusli. (2021). Merancang Penelitian Kualitatif Dasar/Deskriptif dan Studi Kasus. *Al-Ubudiyah: Jurnal Pendidikan Dan Studi Islam*, 2(1), 48–60. <https://doi.org/10.55623/au.v2i1.18>
- Salam, A., & Hamdu, G. (2022). Penerapan *Education for Sustainable Development (ESD)* dalam Media Pembelajaran Elektronik di Kelas V Sekolah Dasar: Perspektif Guru. *PEDADIDAKTIKA: Jurnal Ilmiah Pendidikan Guru Sekolah Dasar*, 9(1), 161–172. <https://doi.org/10.17509/pedadidaktika.v9i1.53129>
- Santi, S. P. (2019). Upaya Meningkatkan *Ecoliteracy* Dan Prestasi Belajar Ipa Menggunakan Plas Di Sekolah Dasar *Improving Ecoliteracy and Science Learning Achievement Using “ Plas ” in Elementary School. Jurnal Pendidikan Guru Sekolah Dasar Edisi 19*, 8(19), 819–828. <http://journal.student.uny.ac.id/ojs/index.php/pgsd/article/view/15431/14936>
- Sasmita, R. N., Sapriya, S., & Maryani, E. (2023). *Critical Thinking on Social Studies Learning for Elementary School Students. Nazhruna: Jurnal Pendidikan Islam*, 5(3), 1377–1387. <https://doi.org/10.31538/nzh.v5i3.2355>
- Semiletova, A. N. (2023). *Practice of systems thinking with preschool children*. 7, 72–76. <https://doi.org/10.47813/dnit-ii.2023.7.72-76>
- Setiawati, T. (2017). Peningkatan Kecerdasan Ekologis Peserta Didik Dalam Bertransportasi Hemat BBM Melalui Pembelajaran IPS Kontekstual (PTK di Kelas VII A SMP Negeri 2 Tomo Kabupaten Sumedang Pada Materi Kelangkaan Sumber Daya Alam). *International Journal Pedagogy of Social Studies*, 1(2), 289. <https://doi.org/10.17509/ijposs.v1i2.4713>
- Singleton, J. (2015). *Head, heart and hands model for transformative learning: place as context for changing sustainability values Transforming eco-paradigms for sustainable values. Journal of Sustainability Education*, 9(March), 1–16. <http://www.susted.org/>
- Siswasih. (2007). No Title *ывмыывмы. Ятыамат, вы12у(235)*, 245. [http://digilib.unila.ac.id/4949/15/BAB II.pdf](http://digilib.unila.ac.id/4949/15/BAB%20II.pdf)
- Spencer, J. (2021). *The sustainable development goals. Design for Global Challenges and Goals*, 12–25. <https://doi.org/10.4324/9781003099680-3>
- SPLITA, M. (2019). *Normativity in the Development of Decisional Competency in Students. Anuarul Universitatii Petre Andrei Din Iasi - Fascicula: Asistenta Sociala, Sociologie, Psihologie*, 23, 83–92. <https://doi.org/10.18662/upasw/30>
- Subur. (2022). Pendidikan Karakter Peduli Lingkungan Berbasis Adiwiyata Mandiri di

- Sekolah Menengah Atas. *Jurnal Kependidikan*, 10(1), 129–146.  
<https://doi.org/10.24090/jk.v10i1.6606>
- Sugiyono. (2018). *Educational Research Methods Quantitative, Qualitative, and R&D Approaches*. *Alfa Beta*, 114, 6–46.
- Supriatna, N., Romadona, N. F., Saputri, A. E., Darmayanti, M., & Indonesia, U. P. (2018). *Implementasi Education for Sustainable Development (Esd) Melalui Ecopedagogy Dalam. Primaria Educationem Journal*, 1(2), 80–86.
- Suwarto, R. S. (2021). *Implementasi Education for Sustainable Development dan Pencapaian Sustainability Consciousness Siswa di Sekolah Adiwiyata dan Sekolah berbasis ESD*. 124–130. <http://repository.upi.edu/59196/>
- Sykes, H. (2020). *Transformative Teacher Education for Sustainability*. 46, 2–5.
- Tasnim, S., Hossain, A., & Marinova, D. (2023). *How Can Stories in Primary Education Support Sustainable Development in Bangladesh? Sustainability (Switzerland)*, 15(16).  
<https://doi.org/10.3390/su151612620>
- Trinova, Z. (2015). *Pembelajaran Berbasis Student-Centered Learning*. 324–335.
- Tyas, D. N., Nurharini, A., Wulandari, D., & Isdaryanti, B. (2022a). Analisis Kemampuan Ekoliterasi dan Karakter Peduli Lingkungan Siswa SD Selama Pembelajaran Daring di Masa Pandemi Covid-19. 9, 213–226.
- Tyas, D. N., Nurharini, A., Wulandari, D., & Isdaryanti, B. (2022b). Analisis Kemampuan Ekoliterasi dan Karakter Peduli Lingkungan Siswa SD Selama Pembelajaran Daring di Masa Pandemi Covid-19. *Faktor : Jurnal Ilmiah Kependidikan*, 9(3), 213.  
<https://doi.org/10.30998/fjik.v9i3.11173>
- Ufie, A. (2013). Kearifan Lokal (*local Wisdom*) Budaya Ain Ni Ain Masyarakat Kei Sebagai Sumber Belajar Sejarah Lokal Untuk Memperkokoh Kohesi Sosial  
 Sifile:///C:/Users/Gantina/Downloads/2. Bagian Isi\_Buku Panduan Instrumen.pdfswa.  
*Repository.Upi.Edu*, 39–55.
- Ulya, V. F. (2023). *Implications Of Behavioristic Learning Theory In Primary School Level Student Learning*. 12–32.
- UNESCO *Education for Sustainable Development*. (2017).  
[https://menntuntillsjalfaerni.weebly.com/uploads/6/2/6/2/6262718/unesco\\_5\\_pillars\\_for\\_esd.pdf](https://menntuntillsjalfaerni.weebly.com/uploads/6/2/6/2/6262718/unesco_5_pillars_for_esd.pdf)
- Valencia, M. I. C. (2018). *Introducing Education for Sustainable Development (Esd) in the Educational Institutions in the Philippines*. *Journal of Sustainable Development*

- Education and Research*, 2(1), 51. <https://doi.org/10.17509/jsder.v2i1.12358>
- Valentine, D. A. (2015). Peningkatan *Ecoliteracy* Siswa Dalam Pemanfaatan Kebun Karet Sebagai Sumber Pembelajaran IPS. *Jurnal Pendidikan Ilmu Sosial*, 24(2), 209–216.
- Vioreza, N., Nana, N., Hakam, K. A., & Setiawan, W. (2022). Analisis Ketersediaan Bahan Ajar Kearifan Lokal Berbasis Kearifan Lokal dalam Menumbuhkan *Ecoliteracy*. *Jurnal Cakrawala Pendas*, 8(1), 147–156. <https://www.ejournal.unma.ac.id/index.php/cp/article/view/1924/1217>
- Vries, P. De, Kortmann, R., & Bogaard, M. Van Den. (2012). *An Authentic Learning Strategy for Engineering Students to acquire Integrated Management Competencies*.
- Wood, P. (2022). *The interpretation and use of social and emotional learning in British primary schools*. *International Journal of Inclusive Education*, 1–17. <https://doi.org/10.1080/13603116.2022.2088870>
- Zwolińska, K., Lorenc, S., & Pomykała, R. (2022). *Sustainable Development in Education from Students' Perspective—Implementation of Sustainable Development in Curricula*. *Sustainability (Switzerland)*, 14(6). <https://doi.org/10.3390/su14063398>