

DAFTAR PUSTAKA

- Adisty, N. (2022, May 19). Kementerian Pertanian : Luas Perkebunan Sawit Indonesia Capai 16,38 Juta Hektare. Retrieved 28 September 2025, from GoodStats website: <https://goodstats.id/article/kementerian-pertanian-luas-perkebunan-sawit-indonesia-capai-16-38-juta-hektare-6r5BV>
- Afriana, J. (2022). Pengaruh PjBL STEM terhadap Literasi Sains dan Problem Solving Siswa SMP. *Jurnal Didaktika Pendidikan Dasar*, 6(2), 627–638. <https://doi.org/10.26811/didaktika.v6i2.551>
- Aguilera, M. A., & González, M. G. (2023). Urban infrastructure expansion and artificial light pollution degrade coastal ecosystems, increasing natural-to-urban structural connectivity. *Landscape and Urban Planning*, 229, 104609. <https://doi.org/10.1016/j.landurbplan.2022.104609>
- Aji Saputro, O., & Sri Rayahu, T. (2020). Perbedaan Pengaruh Penerapan Model Pembelajaran Project Based Learning (PjBL) dan Problem Based Learning (PBL) Berbantuan Media Monopoli Terhadap Kemampuan Berpikir Kritis. *JIPP*, 4. <https://doi.org/https://doi.org/10.23887/jipp.v4i1.24719>
- Anugrah, T. M. G., Winarno, N., Suwarma, I. R., Fadly, W., & Sihombing, R. A. (2025). Science, Technology, Engineering, Mathematics - Engineering Design Process with Earthquake-Proof House Project to improve students' STEM Literacy. *Jurnal IPA & Pembelajaran IPA*, 9(2), 462–476. <https://doi.org/10.24815/jipi.v9i2.45137>
- Ardiansyah, R., Diella, D., & Suhendi, H. Y. (2020). Pelatihan Pengembangan Perangkat Pembelajaran Abad 21 Dengan Model Pembelajaran Project Based Learning Berbasis STEM Bagi Guru IPA. *Jurnal Publikasi Pendidikan*, 10(1). Retrieved from <http://ojs.unm.ac.id/index.php/>
- Arık, M., & Topçu, M. S. (2022). Implementation of Engineering Design Process in the K-12 Science Classrooms: Trends and Issues. *Research in Science Education*, 52(1), 21–43. <https://doi.org/10.1007/s11165-019-09912-x>
- Asril, M., Simarmata, M. M., Sari, S. P., Indarwati, Setiawan, R. B., Arsi, ... Junairiah. (2022). *Keanekaragaman Hayati* (R. Watrianthos, Ed.). Medan: Yayasan Kita Menulis.
- Avery, Z. K., & Reeve, E. M. (2013). Developing effective STEM professional development programs. *Journal of Technology Education*, 25(1), 55–69.
- Ayu, G. N., Putri, C. A., Riyanto, A. R., & Koto, I. (2025). The Scientific Literacy Competence of Students in Indonesia and Mexico Based on PISA 2022: An International Comparative Study. *Tofedu: The Future of Education Journal*, 4(5), 1033–1038. <https://doi.org/10.61445/tofedu.v4i5.525>
- Azzahra, U., Arsih, F., & Alberida, H. (2023). Pengaruh Model Pembelajaran Project-Based Learning (PjBL) terhadap Keterampilan Berpikir Kreatif Peserta Didik pada Pembelajaran Biologi: Literature Review. *Biocephy: Journal of Science Education*, 03(1), 49–60. Retrieved from <http://journal.moripublishing.com/index.php/biocephy>
- Berliana, D. R., Suwarma, I. R., & Novia, H. (2024). The Effect of Project Based Learning (PjBL) - STEM in Improving Students' Science Literacy Skills on Topic of Alternative Energy. *Jurnal Pendidikan Fisika Dan Teknologi*, 10(1), 141–148. <https://doi.org/10.29303/jpft.v10i1.6896>

- Blegur, W. A., & Binsasi, R. (2022). Ancaman Spesies Invasif Di Hutan Produksi Oinbit Kabupaten Timor Tengah Utara. *Syntax Idea*, 4(1), 228–239. <https://doi.org/10.46799/syntax-idea.v4i1.1739>
- BMKG. (2025). Analisis Dinamika Atmosfer Dasarian III Oktober 2025.
- BPS Indonesia. (2023). *Statistik Kelapa Sawit Indonesia 2022* (Vol. 16; H. dan P. Direktorat Statistik Tanaman Pangan, Ed.). Badan Pusat Statistik Indonesia.
- Breakstone, J., Smith, M., Wineburg, S., Rapaport, A., Carle, J., Garland, M., & Saavedra, A. (2021). Students' Civic Online Reasoning: A National Portrait. *Educational Researcher*, 50(8), 505–515. <https://doi.org/10.3102/0013189X211017495>
- Brown, K., & Pearce, D. W. (2023). *The Causes of Tropical Deforestation*. London: Routledge. <https://doi.org/10.4324/9781003428190>
- Cahyaningsih, R. N., Siswanto, J., & Sukamto, S. (2020). Keefektifan Model Project Based Learning Berbantu Multimedia Power Point Terhadap Hasil Belajar IPA. *Jurnal Penelitian Dan Pengembangan Pendidikan*, 4(1), 34. <https://doi.org/10.23887/jppp.v4i1.25014>
- Campbell, C., & Speldewinde, C. (2022). Early Childhood STEM Education for Sustainable Development. *Sustainability (Switzerland)*, 14(6). <https://doi.org/10.3390/su14063524>
- Chairunnisya, S., Abdurrahman, Distrik, I. W., Herlina, K., Rosidin, U., & Rabbani, G. F. (2023). Engineering Design Process (EDP) Strategy Integrated PjBL-STEM in Learning Program: Need Analysis to Stimulate Numeracy Literacy Skills on Renewable Energy Topic. *Jurnal Penelitian Pendidikan IPA*, 9(12), 11197–11206. <https://doi.org/10.29303/jppipa.v9i12.6088>
- Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Hillsdale, New Jersey: Lawrence Erlbaum Associates.
- Colombo, M., & Wright, C. (2021). First principles in the life sciences: the free-energy principle, organicism, and mechanism. *Synthese*, 198(S14), 3463–3488. <https://doi.org/10.1007/s11229-018-01932-w>
- Creswell, J. W., & Guetterman, T. C. (2018). *Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research* (6th ed.). New York: Pearson.
- Danovaro, R., Aronson, J., Cimino, R., Gambi, C., Snelgrove, P. V. R., & Van Dover, C. (2021). Marine ecosystem restoration in a changing ocean. *Restoration Ecology*, 29(S2). <https://doi.org/10.1111/rec.13432>
- Dewi, M. R. (2022). Kelebihan dan kekurangan Project-based Learning untuk penguatan Profil Pelajar Pancasila Kurikulum Merdeka. *Inovasi Kurikulum*, 19(2), 213–226. <https://doi.org/10.17509/jik.v19i2.44226>
- Dewi, N. N. S. K., Arnyana, I. B. P., & Margunayasa, I. G. (2023). Project Based Learning Berbasis STEM: Meningkatkan Kemampuan Berpikir Kritis dan Hasil Belajar Siswa. *Jurnal Ilmiah Pendidikan Profesi Guru*, 6(1), 133–143. <https://doi.org/10.23887/jippg.v6i1.59857>
- Dogara, G., Saud, M. S. Bin, Kamin, Y. Bin, & Nordin, M. S. Bin. (2020). Project-Based Learning Conceptual Framework for Integrating Soft Skills Among Students of Technical Colleges. *IEEE Access*, 8, 83718–83727. <https://doi.org/10.1109/ACCESS.2020.2992092>

- Doppelt, Y. (2005). Assessment of project based learning in a mechatronics context. *Journal of Technology Education*, 16(2), 7–24.
- English, L. D., & King, D. T. (2015). STEM learning through engineering design: fourth-grade students' investigations in aerospace. *International Journal of STEM Education*, 2(1), 14. <https://doi.org/10.1186/s40594-015-0027-7>
- Erika Erika, & Eva Gusmira. (2024). Analisis Dampak Limbah Sampah Rumah Tangga Terhubung Pencemaran Lingkungan Hidup. *Profit: Jurnal Manajemen, Bisnis Dan Akuntansi*, 3(3), 90–102. <https://doi.org/10.58192/profit.v3i3.2245>
- Fortus, D., Lin, J., Neumann, K., & Sadler, T. D. (2022). The role of affect in science literacy for all. *International Journal of Science Education*, 44(4), 535–555. <https://doi.org/10.1080/09500693.2022.2036384>
- Fuadi, H., Robbia, A. Z., Jamaluddin, J., & Jufri, A. W. (2020). Analisis Faktor Penyebab Rendahnya Kemampuan Literasi Sains Peserta Didik. *Jurnal Ilmiah Profesi Pendidikan*, 5(2), 108–116. <https://doi.org/10.29303/jipp.v5i2.122>
- George Lucas Educational Foundation. (2005). Instructional module project based learning. Retrieved 1 September 2025, from <http://www.edutopia.org/modules/pbl/project-based-learning>
- Guilford, J. P. (1950). *Fundamental statistics in psychology and education*, 2nd ed. In *Fundamental statistics in psychology and education*, 2nd ed. New York, NY, US: McGraw-Hill.
- Hardianto, R. I. (2022). Ini Soal Gajah, Manusia dan Habitat yang Menghilang.
- Harlen, W. (2001). The Assessment of Scientific Literacy in the OECD/PISA Project. In *Research in Science Education - Past, Present, and Future* (pp. 49–60). Dordrecht: Springer Netherlands. https://doi.org/10.1007/0-306-47639-8_5
- Hartig, T. (2021). Restoration in Nature: Beyond the Conventional Narrative. In J. C. and S. J. R. Schutte Anne R. and Torquati (Ed.), *Nature and Psychology: Biological, Cognitive, Developmental, and Social Pathways to Well-being* (pp. 89–151). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-69020-5_5
- Hoban, S., Bruford, M., D'Urban Jackson, J., Lopes-Fernandes, M., Heuertz, M., Hohenlohe, P. A., ... Laikre, L. (2020). Genetic diversity targets and indicators in the CBD post-2020 Global Biodiversity Framework must be improved. *Biological Conservation*, 248, 108654. <https://doi.org/10.1016/j.biocon.2020.108654>
- Hynes, M. M. (2012). Middle-school teachers' understanding and teaching of the engineering design process: A look at subject matter and pedagogical content knowledge. *International Journal of Technology and Design Education*, 22(3), 345–360.
- Indrawan, M., Primack, R. B., & Jatna, S. (2007). *Biologi Konservasi: Edisi Revisi*. Yayasan Pustaka Obor Indonesia.
- IPCC. (2021). *Climate Change 2021 The Physical Science Basis Summary for Policymaker*. Switzerland. Retrieved from www.ipcc.ch
- IUCN. (2025). Red List of Threatened Species. Retrieved 11 September 2025, from <https://www.iucnredlist.org>

- Jatmika, S., Lestari, S., Rahmatullah, R., Pujiyanto, P., & Dwandaru, W. S. B. (2020). Integrasi Project Based Learning dalam Science Technology Engineering and Mathematics untuk Meningkatkan Keterampilan Proses Sains dalam Pembelajaran Fisika. *Jurnal Pendidikan Fisika Dan Keilmuan (JPFK)*, 6(2), 107. <https://doi.org/10.25273/jpfk.v6i2.8688>
- Jolly, A. (2017). *STEM by design: Strategies and Activities for Grade 4-8*. New York: Routledge. Retrieved from www.routledge.com/eyeeducation
- Kaggwa, R. J., Blevins, A., Wester, E., Arango-Caro, S., Woodford-Thomas, T., & Callis-Duehl, K. (2023). STEM Outreach to Underresourced Schools: A Model for Inclusive Student Engagement. *The Journal of STEM Outreach*, 6(1). <https://doi.org/10.15695/jstem/v6i1.04>
- Kumar, R., Kumar, A., & Saikia, P. (2022). *Deforestation and Forests Degradation Impacts on the Environment*. https://doi.org/10.1007/978-3-030-95542-7_2
- Kumar, S., Himanshu, S., & K.K., G. (2012). Effect of Global Warming on Mankind -A Review. *International Research Journal of Environment Sciences*, 1, 1414–2319.
- Laboy-Rush, D. (2011). Integrated STEM Education through Project-Based Learning. Retrieved 2 September 2025, from Learning.Com website: www.learning.com/stem/whitepaper/integrated-STEM-throughProject-based-Learning.
- Lawson, A. E. (2004). The Nature and Development of Scientific Reasoning: A Synthetic View. *International Journal of Science and Mathematics Education*, 2(3), 307–338. <https://doi.org/10.1007/s10763-004-3224-2>
- Lin, K.-Y., Wu, Y.-T., Hsu, Y.-T., & Williams, P. J. (2021). Effects of infusing the engineering design process into STEM project-based learning to develop preservice technology teachers' engineering design thinking. *International Journal of STEM Education*, 8(1), 1. <https://doi.org/10.1186/s40594-020-00258-9>
- Magurran, A. E. (2003). *Measuring Biological Diversity*.
- Manalo, F. K. (2024). STEM Students' Motivation, Interest, and Career Diresction Amid New Normal Education: A Narrative Inquiry Research. *Seaqis Journal of Science Education*, 4(1), 40–53. <https://doi.org/10.58249/sjse.v4i1.132>
- McLure, F., Won, M., & Treagust, D. F. (2022a). Analysis of Students' Diagrams Explaining Scientific Phenomena. *Research in Science Education*, 52(4), 1225–1241. <https://doi.org/10.1007/s11165-021-10004-y>
- McLure, F., Won, M., & Treagust, D. F. (2022b). Analysis of Students' Diagrams Explaining Scientific Phenomena. *Research in Science Education*, 52(4), 1225–1241. <https://doi.org/10.1007/s11165-021-10004-y>
- Minarti, I. B., Dzakiy, M. A., & Nilautama, D. (2023). The Effect of STEM (Science, Technology, Engineering, and Mathematics) Based Learning Approach on Critical Thinking Skills and Cognitive Learning Outcomes of Class X SMA Negeri 1. *At-Tasyrih: Jurnal Pendidikan Dan Hukum Islam*, 8(2), 126–136. <https://doi.org/10.55849/attasyrih.v8i2.151>
- Mitchell, J., & Tilley, E. (2024). The Role of Project Based Learning at the Core of Curriculum Development. *Journal of Problem Based Learning in Higher Education*, 12(1), 1–17. <https://doi.org/10.54337/ojs.jpblhe.v12i1.9105>

- Nafiati, D. A. (2021). Revisi taksonomi Bloom: Kognitif, afektif, dan psikomotorik. *Humanika*, 21(2), 151–172. <https://doi.org/10.21831/hum.v21i2.29252>
- National Geographic Indonesia. (2019). Kepunahan Biodiversitas Tertinggi, Indonesia Peringkat Ke-6. Retrieved 11 September 2025, from <https://nationalgeographic.grid.id/read/131833161/kepunahan-biodiversitas-tertinggi-indonesia-peringkat-ke-6>
- Nugroho, M. A. (2022). Konsep Pendidikan Lingkungan Hidup Sebagai Upaya Penanaman Kesadaran Lingkungan pada Kelas IV MIN 1 Jombang. *Ibtidaiyyah: Jurnal Pendidikan Guru Madrasah Ibtidaiyyah*, 1(2), 16–31. <https://doi.org/10.18860/ijpgmi.v1i2.1691>
- Nulhakim, L., & Setiawan, R. (2021). How Students Apply Their Science and Technology Concepts in Developing Blind Stick through STEM Project? *Seaqis Journal of Science Education (SciEd) P-ISSN*, 1(1), 1.
- OECD. (2023a). *PISA 2022 Results (Volume I)*. <https://doi.org/10.1787/53f23881-en>
- OECD. (2023b). *PISA 2025 Science Framework*.
- Onto, E., Gustina, G., Paramita, I., & Saehana, S. (2025). Pengaruh Model Project Based Learning terintegrasi Science Technology Engineering and Mathematics Terhadap Hasil Belajar IPA Siswa Kelas VIII SMP Negeri 13 Sigi. *Jpft (Jurnal Pendidikan Fisika Tadulako Online)*, 12(2), 118–125. <https://doi.org/10.22487/jpft.v12i2.3505>
- Parno, Nur'aini, D. A., Kusairi, S., & Ali, M. (2022). Impact of The STEM approach with formative assessment in PjBL on students' critical thinking skills. *Journal of Physics: Conference Series*, 2165(1), 012044. <https://doi.org/10.1088/1742-6596/2165/1/012044>
- Pebrianti, & Irawati, W. (2024). Peranan Guru Dalam Menggunakan Metode Demonstrasi Untuk Meningkatkan Pemahaman Siswa Terhadap Konsep Pembelajaran Sains. *Journal of Christian Education*, 4(1).
- Pemerintah Indonesia. (1945). *UUD 1945 Pasal 33 ayat (3)*.
- Pemerintah Indonesia. (2009). *Undang-Undang Nomor 32 Tahun 2009 Tentang Perlindungan dan Pengelolaan Lingkungan Hidup*.
- Pravitasari, A. G., & Nugraheni, N. (2024). Transformasi Pendidikan Menuju Konservasi Berkelanjutan: Membangun Kesadaran Lingkungan dan Kepedulian Generasi Mendatang. *Jurnal Penelitian Ilmu-Ilmu Sosial*, 1(9), 6–11. <https://doi.org/https://doi.org/10.5281/zenodo.10928962>
- Purwaningsih, E., Sari, S. P., Sari, A. M., & Suryadi, A. (2020). The effect of stem-pjbl and discovery learning on improving students' problem-solving skills of the impulse and momentum topic. *Jurnal Pendidikan IPA Indonesia*, 9(4), 465–476. <https://doi.org/10.15294/jpii.v9i4.26432>
- Rahma, F. A., & Nuha, U. (2026). Pengaruh Model Project Based Learning (PJBL) Berbasis STEM terhadap Keterampilan Proses Sains Siswa SMP dalam Pembelajaran IPA. *Panthera : Jurnal Ilmiah Pendidikan Sains Dan Terapan*, 6(1), 19–30. <https://doi.org/10.36312/panthera.v6i1.800>
- Rahman, A. A. (2022). Integrasi Computational Thinking dalam Model EDP-STEM untuk Meningkatkan Kemampuan Berpikir Kritis Siswa SMP. *Jurnal*

- Didaktika Pendidikan Dasar*, 6(2), 575–590.
<https://doi.org/10.26811/didaktika.v6i2.409>
- Rahmania, I. (2021). Project Based Learning (PjBL) Learning Model with STEM Approach in Natural Science Learning for the 21st Century. *Budapest International Research and Critics Institute (BIRCI-Journal): Humanities and Social Sciences*, 4(1), 1161–1167.
<https://doi.org/10.33258/birci.v4i1.1727>
- Rawat, U. S., & Agarwal, N. K. (2015). Biodiversity: Concept, threats and conservation. *Environment Conservation Journal*, 16(3), 19–28.
<https://doi.org/10.36953/ECJ.2015.16303>
- Retno, R. S., Purnomo, P., Hidayat, A., & Mashfufah, A. (2025). Conceptual framework design for STEM-integrated project-based learning (PjBL-STEM) for elementary schools. *Asian Education and Development Studies*, 14(3), 579–604. <https://doi.org/10.1108/AEDS-08-2024-0188>
- Richardson, M., Passmore, H., Barbett, L., Lumber, R., Thomas, R., & Hunt, A. (2020). The green care code: How nature connectedness and simple activities help explain pro-nature conservation behaviours. *People and Nature*, 2(3), 821–839. <https://doi.org/10.1002/pan3.10117>
- Safitri, W., Suyanto, S., & Prasetya, W. A. (2024). The Influence of the STEM-Based Engineering Design Process Model on High School Students' Creative and Critical Thinking Abilities. *Jurnal Penelitian Pendidikan IPA*, 10(2), 662–673. <https://doi.org/10.29303/jppipa.v10i2.4765>
- Sasmita, P. R., & Hartoyo, Z. (2020). Pengaruh Pendekatan Pembelajaran STEM Project Based Learning terhadap Pemahaman Konsep Fisika Siswa. *Silampari Jurnal Pendidikan Ilmu Fisika*, 2(2), 136–148.
<https://doi.org/10.31540/sjpif.v2i2.1081>
- Satriana, A. (2021). Best Practise Meningkatkan Literasi Teknologi dan Sain Peserta Didik Melalui Pembelajaran Berbasis Poyek Dengan Pendekatan STEM. *Teaching : Jurnal Inovasi Keguruan Dan Ilmu Pendidikan*, 1(3), 184–193. <https://doi.org/10.51878/teaching.v1i3.488>
- Setiawan, A. (2022). Keanekaragaman Hayati Indonesia: Masalah dan Upaya Konservasinya. *Indonesian Journal of Conservation*, 1(11), 13–21.
<https://doi.org/10.15294/ijc.v1i11.34532>
- Setiawan, P., Wahidin, & Ginanjar Arip, A. (2023). Application of the Project Based Learning (PjBL) Model through Making Tempe to Improve Student Learning Outcomes and Creativity. *Influence: International Journal of Science Review*, 5(2). Retrieved from <https://influence-journal.com/index.php/influence/index>
- Subekti, A. O., Rahayu, R., & Trisnowati, E. (2025). The Application of PjBL with STEM Integration: Its Effect on Science Problem-Solving Abilities. *Jurnal Inovasi Pendidikan IPA*, 11(1), 352–362.
<https://doi.org/10.21831/jipi.v11i1.77715>
- Sugiester S, F., Firmansyah, Y. W., Widiyantoro, W., Fuadi, M. F., Afrina, Y., & Hardiyanto, A. (2021). DAMPAK PENCEMARAN SUNGAI DI INDONESIA TERHADAP GANGGUAN KESEHATAN: LITERATURE REVIEW. *Jurnal Riset Kesehatan Poltekkes Depkes Bandung*, 13(1), 120–133. <https://doi.org/10.34011/juriskesbdg.v13i1.1829>

- Sugiyono, P. D. (2019). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung: ALFABETA.
- Tawil, M., & Liliyasi, L. (2014). *Keterampilan-keterampilan sains dan implementasinya dalam pembelajaran IPA*. Makasar: Badan Penerbit Unm.
- Terrestrial Production Processes. (2002). In *Principles of Terrestrial Ecosystem Ecology* (pp. 123–150). New York, NY: Springer New York. https://doi.org/10.1007/0-387-21663-4_6
- Tipmontiane, K., & Williams, P. J. (2022). The Integration of the Engineering Design Process in Biology-related STEM Activity: A Review of Thai Secondary Education ASEAN Journal of Science and Engineering Education. *ASEAN Journal of Science and Engineering Education* 1, 1(1), 1–10. <https://doi.org/10.17509/xxxx.vxix>
- Triarsuci, D., Qodri, H. T. A.-, Rayhan, S. A., & Marini, A. (2024). Manajemen Sumber Daya Manusia dalam Pengelolaan Infrastruktur Sekolah Dasar: Tantangan dan Solusi. *Jurnal Pendidikan Guru Sekolah Dasar*, 1(3), 15. <https://doi.org/10.47134/pgsd.v1i3.551>
- Tuhumury, N., & Ritonga, A. (2020). IDENTIFIKASI KEBERADAAN DAN JENIS MIKROPLASTIK PADA KERANG DARAH (*Anadara granosa*) DI PERAIRAN TANJUNG TIRAM, TELUK AMBON. *TRITON: Jurnal Manajemen Sumberdaya Perairan*, 16(1), 1–7. <https://doi.org/10.30598/TRITONvol16issue1page1-7>
- Ukaogo, P. O., Ewuzie, U., & Onwuka, C. V. (2020). Environmental pollution: causes, effects, and the remedies. In *Microorganisms for Sustainable Environment and Health* (pp. 419–429). Elsevier. <https://doi.org/10.1016/B978-0-12-819001-2.00021-8>
- Van Dyke, F., & Lamb, R. L. (2020). *Conservation Biology*. Cham: Springer International Publishing. <https://doi.org/10.1007/978-3-030-39534-6>
- Wahyu, Y., Edu, A. L., & Helmon, A. (2023). STEM-based PjBL Learning Model with Manggaraians Indigenous Science Content to Improve Science Literacy: is it Effective? *Jurnal Penelitian Pendidikan IPA*, 9(10), 8263–8273. <https://doi.org/10.29303/jppipa.v9i10.4963>
- Yoro, K. O., & Daramola, M. O. (2020). CO₂ emission sources, greenhouse gases, and the global warming effect. In *Advances in Carbon Capture* (pp. 3–28). Elsevier. <https://doi.org/10.1016/B978-0-12-819657-1.00001-3>