Phil Renforth

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3094850/publications.pdf

Version: 2024-02-01

36	2,898	304743	377865
papers	citations	22 h-index	34 g-index

38	38	38	1974
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced chemical weathering as a geoengineering strategy to reduce atmospheric carbon dioxide, supply nutrients, and mitigate ocean acidification. Reviews of Geophysics, 2013, 51, 113-149.	23.0	323
2	Potential for large-scale CO2 removal via enhanced rock weathering with croplands. Nature, 2020, 583, 242-248.	27.8	263
3	Assessing ocean alkalinity for carbon sequestration. Reviews of Geophysics, 2017, 55, 636-674.	23.0	216
4	Land-Management Options for Greenhouse Gas Removal and Their Impacts on Ecosystem Services and the Sustainable Development Goals. Annual Review of Environment and Resources, 2019, 44, 255-286.	13.4	181
5	The negative emission potential of alkaline materials. Nature Communications, 2019, 10, 1401.	12.8	166
6	The potential of enhanced weathering in the UK. International Journal of Greenhouse Gas Control, 2012, 10, 229-243.	4.6	151
7	Olivine Dissolution in Seawater: Implications for CO₂ Sequestration through Enhanced Weathering in Coastal Environments. Environmental Science & Technology, 2017, 51, 3960-3972.	10.0	139
8	Carbonate precipitation in artificial soils as a sink for atmospheric carbon dioxide. Applied Geochemistry, 2009, 24, 1757-1764.	3.0	134
9	Carbon Dioxide Efficiency of Terrestrial Enhanced Weathering. Environmental Science & Technology, 2014, 48, 4809-4816.	10.0	119
10	Behavior of Aluminum, Arsenic, and Vanadium during the Neutralization of Red Mud Leachate by HCl, Gypsum, or Seawater. Environmental Science & Technology, 2013, 47, 6527-6535.	10.0	115
11	CO2 Removal With Enhanced Weathering and Ocean Alkalinity Enhancement: Potential Risks and Co-benefits for Marine Pelagic Ecosystems. Frontiers in Climate, 2019, 1, .	2.8	107
12	Investigating carbonate formation in urban soils as a method for capture and storage of atmospheric carbon. Science of the Total Environment, 2012, 431, 166-175.	8.0	101
13	Ambient weathering of magnesium oxide for CO2 removal from air. Nature Communications, 2020, 11, 3299.	12.8	95
14	Engineered carbon mineralization in ultramafic rocks for CO2 removal from air: Review and new insights. Chemical Geology, 2020, 550, 119628.	3.3	90
15	Rapid Removal of Atmospheric CO₂ by Urban Soils. Environmental Science & Technology, 2015, 49, 5434-5440.	10.0	76
16	Carbonate precipitation in artificial soils produced from basaltic quarry fines and composts: An opportunity for passive carbon sequestration. International Journal of Greenhouse Gas Control, 2013, 17, 309-317.	4.6	74
17	Passive Sequestration of Atmospheric CO₂ through Coupled Plant-Mineral Reactions in Urban soils. Environmental Science & Technology, 2013, 47, 135-141.	10.0	74
18	Engineering challenges of ocean liming. Energy, 2013, 60, 442-452.	8.8	68

#	Article	IF	Citations
19	Atmospheric CO₂ Sequestration in Iron and Steel Slag: Consett, County Durham, United Kingdom. Environmental Science & Technology, 2018, 52, 7892-7900.	10.0	52
20	Substantial carbon drawdown potential from enhanced rock weathering in the United Kingdom. Nature Geoscience, 2022, 15, 382-389.	12.9	48
21	Atmospheric Carbon Capture Performance of Legacy Iron and Steel Waste. Environmental Science & Technology, 2019, 53, 9502-9511.	10.0	39
22	Towards a business case for CO2 mineralisation in the cement industry. Communications Earth & Environment, 2022, 3, .	6.8	32
23	Legacy iron and steel wastes in the UK: Extent, resource potential, and management futures. Journal of Geochemical Exploration, 2020, 219, 106630.	3.2	28
24	Global Carbon Dioxide Removal Potential of Waste Materials From Metal and Diamond Mining. Frontiers in Climate, 2021, 3, .	2.8	28
25	The potential environmental response to increasing ocean alkalinity for negative emissions. Mitigation and Adaptation Strategies for Global Change, 2019, 24, 1191-1211.	2.1	26
26	Laboratory carbonation of artificial silicate gels enhanced by citrate: Implications for engineered pedogenic carbonate formation. International Journal of Greenhouse Gas Control, 2011, 5, 1578-1586.	4.6	22
27	Potential of Maritime Transport for Ocean Liming and Atmospheric CO2 Removal. Frontiers in Climate, 2021, 3, .	2.8	21
28	Geochemical Negative Emissions Technologies: Part I. Review. Frontiers in Climate, 0, 4, .	2.8	20
29	The role of soils in the regulation of ocean acidification. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200174.	4.0	17
30	Designing a carbon capture function into urban soils. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2011, 164, 121-128.	0.7	16
31	Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200185.	4.0	15
32	The Dissolution of Olivine Added to Soil at 4Â°C: Implications for Enhanced Weathering in Cold Regions. Frontiers in Climate, 2022, 4, .	2.8	12
33	Potential of enhanced weathering of calcite in packed bubble columns with seawater for carbon dioxide removal. Chemical Engineering Journal, 2022, 431, 134096.	12.7	11
34	The lithium and magnesium isotope signature of olivine dissolution in soil experiments. Chemical Geology, 2021, 560, 120008.	3.3	9
35	Buffered accelerated weathering of limestone for storing CO2: Chemical background. International Journal of Greenhouse Gas Control, 2021, 112, 103517.	4.6	7
36	Introduction to keeping lessons alive in engineering geology. Quarterly Journal of Engineering Geology and Hydrogeology, 2019, 52, 399-400.	1.4	0