List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of the dual-process approach for <i>in-situ</i> groundwater arsenic removal. Environmental Technology (United Kingdom), 2024, 45, 129-143.	2.2	0
2	Carboxylic Acid fâ€MWCNT/Graphite and Safranin O/Graphite Based Voltammetric Sensors for Norfloxacin Detection. Electroanalysis, 2023, 35, .	2.9	5
3	Comprehensive performance evaluation of plasma vitrification for detoxification and valorization of residual wastes. Critical Reviews in Environmental Science and Technology, 2023, 53, 527-549.	12.8	4
4	Environmental benefit assessment of steel slag utilization and carbonation: A systematic review. Science of the Total Environment, 2022, 806, 150280.	8.0	40
5	Addressing nitrogenous gases from croplands toward low-emission agriculture. Npj Climate and Atmospheric Science, 2022, 5, .	6.8	32
6	Mercury vapor adsorption and sustainable recovery using novel electrothermal swing system with gold-electrodeposited activated carbon fiber cloth. Journal of Hazardous Materials, 2021, 410, 124586.	12.4	8
7	Advances in Circular Bioeconomy Technologies: From Agricultural Wastewater to Value-Added Resources. Environments - MDPI, 2021, 8, 20.	3.3	17
8	CO2 Treatment of Hydrated Cement Powder: Characterization and Application Consideration. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	46
9	Contribution of sewage to occurrence of phosphodiesterase-5 inhibitors in natural water. Scientific Reports, 2021, 11, 9470.	3.3	10
10	The Role of Biochar in Regulating the Carbon, Phosphorus, and Nitrogen Cycles Exemplified by Soil Systems. Sustainability, 2021, 13, 5612.	3.2	39
11	Performance Evaluation of Cascade Separation for a Humic Substance and Nutrient Recovery from Piggery Wastewater toward a Circular Bioeconomy. ACS Sustainable Chemistry and Engineering, 2021, 9, 8115-8124.	6.7	8
12	Non-conventional water reuse in agriculture: A circular water economy. Water Research, 2021, 199, 117193.	11.3	51
13	Anaerobic co-digestion of agricultural wastes toward circular bioeconomy. IScience, 2021, 24, 102704.	4.1	46
14	Systematic approach to source-sink apportionment of copper in paddy fields: Experimental observation, dynamic modeling and prevention strategy. Journal of Hazardous Materials, 2021, 417, 126045.	12.4	2
15	Comparative life cycle assessment to maximize CO2 sequestration of steel slag products. Construction and Building Materials, 2021, 298, 123876.	7.2	34
16	Green transportation for sustainability: Review of current barriers, strategies, and innovative technologies. Journal of Cleaner Production, 2021, 326, 129392.	9.3	80
17	Removal of fine particles from IC chip carbonization process in a rotating packed bed: Modeling and assessment. Chemosphere, 2020, 238, 124600.	8.2	9
18	Sustainable Recovery of Gaseous Mercury by Adsorption and Electrothermal Desorption Using Activated Carbon Fiber Cloth. Environmental Science & Technology, 2020, 54, 1857-1866.	10.0	24

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19	Performance evaluation and optimization of flocculation process for removing heavy metal. Chemical Engineering Journal, 2020, 385, 123911.	12.7	104
20	Towards carbon-neutral construction materials: Carbonation of cement-based materials and the future perspective. Journal of Building Engineering, 2020, 28, 101062.	3.4	64
21	An engineering-environmental-economic-energy assessment for integrated air pollutants reduction, CO2 capture and utilization exemplified by the high-gravity process. Journal of Environmental Management, 2020, 255, 109870.	7.8	12
22	Composition-oriented estimation of biogas production from major culinary wastes in an anaerobic bioreactor and its associated CO2 reduction potential. Bioresource Technology, 2020, 318, 124045.	9.6	10
23	Addressing environmental sustainability of plasma vitrification technology for stabilization of municipal solid waste incineration fly ash. Journal of Hazardous Materials, 2020, 398, 122959.	12.4	56
24	Brackish water desalination using reverse osmosis and capacitive deionization at the water-energy nexus. Water Research, 2020, 183, 116064.	11.3	123
25	Kinetics of competitive cometabolism under aerobic conditions. Water-Energy Nexus, 2020, 3, 62-70.	4.0	9
26	Recent advances in carbon dioxide utilization. Renewable and Sustainable Energy Reviews, 2020, 125, 109799.	16.4	369
27	A multiple model approach for evaluating the performance of time-lapse capsules in trapping heavy metals from water bodies. RSC Advances, 2020, 10, 16490-16501.	3.6	24
28	CO2 mineralization and utilization by alkaline solid wastes for potential carbon reduction. Nature Sustainability, 2020, 3, 399-405.	23.7	182
29	Enhanced removal of tris(2-chloroethyl) phosphate using a resin-based nanocomposite hydrated iron oxide through a Fenton-like process: Capacity evaluation and pathways. Water Research, 2020, 175, 115655.	11.3	41
30	CO ₂ Mineralization and Utilization Using Various Calcium-Containing Wastewater and Refining Slag via a High-Gravity Carbonation Process. Industrial & Engineering Chemistry Research, 2020, 59, 7140-7150.	3.7	21
31	Implementation of green chemistry principles in circular economy system towards sustainable development goals: Challenges and perspectives. Science of the Total Environment, 2020, 716, 136998.	8.0	228
32	Establishment of an Automatic Real-Time Monitoring System for Irrigation Water Quality Management. International Journal of Environmental Research and Public Health, 2020, 17, 737.	2.6	5
33	Opportunities and challenges of electrochemical water treatment integrated with renewable energy at the water-energy nexus. Water-Energy Nexus, 2020, 3, 110-116.	4.0	26
34	Integration of green and gray infrastructures for sponge city: Water and energy nexus. Water-Energy Nexus, 2020, 3, 29-40.	4.0	54
35	Establishment of enhanced geothermal energy utilization plans: Barriers and strategies. Renewable Energy, 2019, 132, 19-32.	8.9	130
36	Enhanced corn-stover fermentation for biogas production by NaOH pretreatment with CaO additive and ultrasound. Journal of Cleaner Production, 2019, 238, 117813.	9.3	52

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37	Novel chitosan-based flocculants for chromium and nickle removal in wastewater via integrated chelation and flocculation. Journal of Environmental Management, 2019, 248, 109241.	7.8	56
38	Advances and challenges of implementing carbon offset mechanism for a low carbon economy: The Taiwanese experience. Journal of Cleaner Production, 2019, 239, 117860.	9.3	16
39	Toward Greener and More Sustainable Manufacture of Bauxite-Derived Adsorbents for Water Defluoridation. ACS Sustainable Chemistry and Engineering, 2019, 7, 18323-18331.	6.7	13
40	Development and deployment of integrated air pollution control, CO2 capture and product utilization via a high-gravity process: comprehensive performance evaluation. Environmental Pollution, 2019, 252, 1464-1475.	7.5	29
41	Performance evaluation of modified bioretention systems with alkaline solid wastes for enhanced nutrient removal from stormwater runoff. Water Research, 2019, 161, 61-73.	11.3	53
42	Integration of Green Energy and Advanced Energy-Efficient Technologies for Municipal Wastewater Treatment Plants. International Journal of Environmental Research and Public Health, 2019, 16, 1282.	2.6	47
43	Development and Deployment of Green Technologies for Sustainable Environment. Environments - MDPI, 2019, 6, 114.	3.3	11
44	Mechanistic insight into mineral carbonation and utilization in cement-based materials at solid–liquid interfaces. RSC Advances, 2019, 9, 31052-31061.	3.6	12
45	Systematic approach to evaluating environmental and ecological technologies for wastewater treatment. Chemosphere, 2019, 218, 778-792.	8.2	35
46	Performance evaluation of integrated adsorption-nanofiltration system for emerging compounds removal: Exemplified by caffeine, diclofenac and octylphenol. Journal of Environmental Management, 2019, 231, 121-128.	7.8	39
47	Efficacy of carbonated petroleum coke fly ash as supplementary cementitious materials in cement mortars. Journal of Cleaner Production, 2018, 180, 689-697.	9.3	23
48	Cooling water use in thermoelectric power generation and its associated challenges for addressing water-energy nexus. Water-Energy Nexus, 2018, 1, 26-41.	4.0	110
49	Performance evaluation of integrated air pollution control with alkaline waste valorization via high-gravity technology. Journal of the Taiwan Institute of Chemical Engineers, 2018, 87, 165-173.	5.3	13
50	A cross-disciplinary overview of naturally derived materials for electrochemical energy storage. Materials Today Energy, 2018, 7, 58-79.	4.7	58
51	Advances and challenges in sustainable tourism toward a green economy. Science of the Total Environment, 2018, 635, 452-469.	8.0	300
52	Carbonation and utilization of basic oxygen furnace slag coupled with concentrated water from electrodeionization. Journal of CO2 Utilization, 2018, 25, 46-55.	6.8	18
53	Electrokinetic desalination of brackish water and associated challenges in the water and energy nexus. Environmental Science: Water Research and Technology, 2018, 4, 613-638.	2.4	39
54	Optimization of resin wafer electrodeionization for brackish water desalination. Separation and Purification Technology, 2018, 194, 346-354.	7.9	35

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55	Energy-efficient resin wafer electrodeionization for impaired water reclamation. Journal of Cleaner Production, 2018, 174, 1464-1474.	9.3	35
56	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. Journal of Materials Chemistry A, 2018, 6, 20546-20563.	10.3	96
57	CO ₂ Mineralization and Utilization by a High-Gravity Carbonation Process: Past, Present, and Future. ACS Symposium Series, 2018, , 97-104.	0.5	0
58	Mechanism of organic pollutants sorption from aqueous solution by cationic tunable organoclays. Journal of Colloid and Interface Science, 2018, 529, 90-99.	9.4	30
59	Advances in state-of-art valorization technologies for captured CO ₂ toward sustainable carbon cycle. Critical Reviews in Environmental Science and Technology, 2018, 48, 471-534.	12.8	70
60	Characteristics of steel slags and their use in cement and concrete—A review. Resources, Conservation and Recycling, 2018, 136, 187-197.	10.8	455
61	An Overview: Reaction Mechanisms and Modelling of CO2 Utilization via Mineralization. Aerosol and Air Quality Research, 2018, 18, 829-848.	2.1	54
62	Development of Advanced Electrokinetic Process for Brackish Water Desalination. ECS Meeting Abstracts, 2018, , .	0.0	0
63	Development of high-gravity technology for removing particulate and gaseous pollutant emissions: Principles and applications. Journal of Cleaner Production, 2017, 149, 540-556.	9.3	52
64	Carbon Dioxide Mineralization and Utilization. , 2017, , .		26
65	Development of a Resin Wafer Electrodeionization Process for Impaired Water Desalination with High Energy Efficiency and Productivity. ACS Sustainable Chemistry and Engineering, 2017, 5, 2942-2948.	6.7	60
66	Environmental Benefit Assessment for the Carbonation Process of Petroleum Coke Fly Ash in a Rotating Packed Bed. Environmental Science & Technology, 2017, 51, 10674-10681.	10.0	43
67	CO2 Mineralization and Utilization using Steel Slag for Establishing a Waste-to-Resource Supply Chain. Scientific Reports, 2017, 7, 17227.	3.3	81
68	Deployment of Accelerated Carbonation Using Alkaline Solid Wastes for Carbon Mineralization and Utilization Toward a Circular Economy. ACS Sustainable Chemistry and Engineering, 2017, 5, 6429-6437.	6.7	40
69	Impact of HCl and O2 on removal of elemental mercury by heat-treated activated carbon: Integrated X-ray analysis. Fuel Processing Technology, 2017, 167, 11-17.	7.2	23
70	Iron and Steel Slags. , 2017, , 233-252.		8
71	Fly Ash, Bottom Ash, and Dust. , 2017, , 253-264.		2
72	System Optimization. , 2017, , 403-439.		3

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73	Post-combustion Carbon Capture, Storage, and Utilization. , 2017, , 9-34.		6
74	CO2 Mineralization and Utilization via Accelerated Carbonation. , 2017, , 35-49.		5
75	Carbonation Mechanisms and Modelling. , 2017, , 127-158.		1
76	Utilization of Carbonation Products. , 2017, , 277-292.		1
77	Supplementary Cementitious Materials (SCMs) in Cement Mortar. , 2017, , 293-325.		0
78	Aggregates and High Value Products. , 2017, , 327-334.		0
79	System Analysis. , 2017, , 187-217.		1
80	Waste-to-Resource (WTR) Green Supply Chain. , 2017, , 361-401.		0
81	Applications of Carbonation Technologies. , 2017, , 159-185.		0
82	Analytical Methods for Carbonation Material. , 2017, , 97-126.		0
83	Principles of Accelerated Carbonation Reaction. , 2017, , 71-96.		0
84	Carbon Capture with Flue Gas Purification. , 2017, , 337-359.		0
85	Paper Industry, Construction, and Mining Process Wastes. , 2017, , 265-274.		0
86	Challenges and Perspectives on Carbon Fixation and Utilization Technologies: An Overview. Aerosol and Air Quality Research, 2016, 16, 1327-1344.	2.1	52
87	High-gravity carbonation of basic oxygen furnace slag for CO2 fixation and utilization in blended cement. Journal of Cleaner Production, 2016, 124, 350-360.	9.3	64
88	Validating carbonation parameters of alkaline solid wastes via integrated thermal analyses: Principles and applications. Journal of Hazardous Materials, 2016, 307, 253-262.	12.4	33
89	Integrated CO ₂ Fixation, Waste Stabilization, and Product Utilization via High-Gravity Carbonation Process Exemplified by Circular Fluidized Bed Fly Ash. ACS Sustainable Chemistry and Engineering, 2016, 4, 3045-3052.	6.7	52
90	Integrated and innovative steel slag utilization for iron reclamation, green material production and CO2 fixation via accelerated carbonation. Journal of Cleaner Production, 2016, 137, 617-631.	9.3	175

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91	Environmental impacts and benefits of organic Rankine cycle power generation technology and wood pellet fuel exemplified by electric arc furnace steel industry. Applied Energy, 2016, 183, 369-379.	10.1	36
92	Assessing the environmental impacts and water consumption of pretreatment and conditioning processes of corn stover hydrolysate liquor in biorefineries. Energy, 2016, 116, 436-444.	8.8	22
93	Socioeconomic costs of replacing nuclear power with fossil and renewable energy in Taiwan. Energy, 2016, 114, 369-381.	8.8	27
94	Multiple model approach to evaluation of accelerated carbonation for steelmaking slag in a slurry reactor. Chemosphere, 2016, 154, 63-71.	8.2	32
95	Engineering, environmental and economic performance evaluation of high-gravity carbonation process for carbon capture and utilization. Applied Energy, 2016, 170, 269-277.	10.1	53
96	Building green supply chains in eco-industrial parks towards a green economy: Barriers and strategies. Journal of Environmental Management, 2015, 162, 158-170.	7.8	117
97	Strategies on implementation of waste-to-energy (WTE) supply chain for circular economy system: a review. Journal of Cleaner Production, 2015, 108, 409-421.	9.3	421
98	Accelerated carbonation using municipal solid waste incinerator bottom ash and cold-rolling wastewater: Performance evaluation and reaction kinetics. Waste Management, 2015, 43, 283-292.	7.4	47
99	Systematic approach to determination of optimum gas-phase mass transfer rate for high-gravity carbonation process of steelmaking slags in a rotating packed bed. Applied Energy, 2015, 148, 23-31.	10.1	25
100	High-Gravity Carbonation Process for Enhancing CO ₂ Fixation and Utilization Exemplified by the Steelmaking Industry. Environmental Science & Technology, 2015, 49, 12380-12387.	10.0	71
101	Development of Low-Carbon-Driven Bio-product Technology Using Lignocellulosic Substrates from Agriculture: Challenges and Perspectives. Current Sustainable/Renewable Energy Reports, 2015, 2, 145-154.	2.6	16
102	An Innovative Approach to Integrated Carbon Mineralization and Waste Utilization: A Review. Aerosol and Air Quality Research, 2015, 15, 1072-1091.	2.1	83
103	Integrated Wastewater Treatment with Steel Slags Stabilization and CO ₂ Fixation via High-gravity Carbonation Process. Proceedings of the Water Environment Federation, 2015, 2015, 1-6.	0.0	0
104	Process Intensification of Steel Slag Carbonation via a Rotating Packed Bed: Reaction Kinetics and Mass Transfer. Energy Procedia, 2014, 63, 2255-2260.	1.8	11
105	Kinetics of carbonation reaction of basic oxygen furnace slags in a rotating packed bed using the surface coverage model: Maximization of carbonation conversion. Applied Energy, 2014, 113, 267-276.	10.1	71
106	Comparative Life Cycle Assessment (LCA) of Accelerated Carbonation Processes Using Steelmaking Slag for CO2 Fixation. Aerosol and Air Quality Research, 2014, 14, 892-904.	2.1	19
107	Kinetic modeling on CO2 capture using basic oxygen furnace slag coupled with cold-rolling wastewater in a rotating packed bed. Journal of Hazardous Materials, 2013, 260, 937-946.	12.4	59
108	Performance Evaluation of Aqueous Carbonation for Steelmaking Slag: Process Chemistry. Energy Procedia, 2013, 37, 115-121.	1.8	5

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109	Carbonation of basic oxygen furnace slag with metalworking wastewater in a slurry reactor. International Journal of Greenhouse Gas Control, 2013, 12, 382-389.	4.6	97
110	Ex Situ CO ₂ Capture by Carbonation of Steelmaking Slag Coupled with Metalworking Wastewater in a Rotating Packed Bed. Environmental Science & Technology, 2013, 47, 3308-3315.	10.0	123
111	Systematic Approach to Determination of Maximum Achievable Capture Capacity via Leaching and Carbonation Processes for Alkaline Steelmaking Wastes in a Rotating Packed Bed. Environmental Science & Technology, 2013, 47, 13677-13685.	10.0	58
112	CO2 Capture by Accelerated Carbonation of Alkaline Wastes: A Review on Its Principles and Applications. Aerosol and Air Quality Research, 2012, 12, 770-791.	2.1	313
113	Accelerated carbonation of steelmaking slags in a high-gravity rotating packed bed. Journal of Hazardous Materials, 2012, 227-228, 97-106.	12.4	175
114	CO2 Capture by Using Blended Hydraulic Slag Cement via a Slurry Reactor. Aerosol and Air Quality Research, 2012, 12, 1433-1443.	2.1	28
115	CO2 sequestration by carbonation of steelmaking slags in an autoclave reactor. Journal of Hazardous Materials, 2011, 195, 107-114.	12.4	135
116	Performance evaluation for carbonation of steel-making slags in a slurry reactor. Journal of Hazardous Materials, 2011, 186, 558-564.	12.4	147
117	Application of Mass Transfer Models in Environmental Engineering. , 0, , .		0