List of Publications by Year in descending order

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Ιιλκιιλη Υλής

#	Article	IF	CITATIONS
1	Alkaline intercalation of Ti3C2 MXene for simultaneous electrochemical detection of Cd(II), Pb(II), Cu(II) and Hg(II). Electrochimica Acta, 2017, 248, 46-57.	2.6	265
2	Application of Bayer red mud for iron recovery and building material production from alumosilicate residues. Journal of Hazardous Materials, 2009, 161, 474-478.	6.5	260
3	Enhanced Cr(VI) removal from acidic solutions using biochar modified by Fe3O4@SiO2-NH2 particles. Science of the Total Environment, 2018, 628-629, 499-508.	3.9	242
4	Review on treatment and utilization of bauxite residues in China. International Journal of Mineral Processing, 2009, 93, 220-231.	2.6	229
5	Synthesis and strength optimization of one-part geopolymer based on red mud. Construction and Building Materials, 2016, 111, 317-325.	3.2	226
6	Preparation of load-bearing building materials from autoclaved phosphogypsum. Construction and Building Materials, 2009, 23, 687-693.	3.2	225
7	Roles of iron species and pH optimization on sewage sludge conditioning with Fenton's reagent and lime. Water Research, 2016, 95, 124-133.	5.3	203
8	Cross-linked chitosan/β-cyclodextrin composite for selective removal of methyl orange: Adsorption performance and mechanism. Carbohydrate Polymers, 2018, 182, 106-114.	5.1	195
9	Oneâ€Part Geopolymers Based on Thermally Treated Red Mud/NaOH Blends. Journal of the American Ceramic Society, 2015, 98, 5-11.	1.9	184
10	Synthesis and Characterization of Geopolymer from Bayer Red Mud with Thermal Pretreatment. Journal of the American Ceramic Society, 2014, 97, 1652-1660.	1.9	167
11	A critical review on secondary lead recycling technology and its prospect. Renewable and Sustainable Energy Reviews, 2016, 61, 108-122.	8.2	157
12	Mechanism of red mud combined with Fenton's reagent in sewage sludge conditioning. Water Research, 2014, 59, 239-247.	5.3	150
13	Leaching copper from shredded particles of waste printed circuit boards. Journal of Hazardous Materials, 2011, 187, 393-400.	6.5	149
14	Thiol-Functionalized Zr-Based Metal–Organic Framework for Capture of Hg(II) through a Proton Exchange Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 8494-8502.	3.2	140
15	A comprehensive insight into the combined effects of Fenton's reagent and skeleton builders on sludge deep dewatering performance. Journal of Hazardous Materials, 2013, 258-259, 144-150.	6.5	138
16	Development of unsintered construction materials from red mud wastes produced in the sintering alumina process. Construction and Building Materials, 2008, 22, 2299-2307.	3.2	136
17	Co-disposal of MSWI fly ash and Bayer red mud using an one-part geopolymeric system. Journal of Hazardous Materials, 2016, 318, 70-78.	6.5	136
18	Phosphorus recovery from the liquid phase of anaerobic digestate using biochar derived from ironâ^'rich sludge: A potential phosphorus fertilizer. Water Research, 2020, 174, 115629.	5.3	133

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19	Metabolomics revealing the response of rice (Oryza sativa L.) exposed to polystyrene microplastics. Environmental Pollution, 2020, 266, 115159.	3.7	132
20	Synergetic conditioning of sewage sludge via Fe2+/persulfate and skeleton builder: Effect on sludge characteristics and dewaterability. Chemical Engineering Journal, 2015, 270, 572-581.	6.6	131
21	Unraveling oxidation behaviors for intracellular and extracellular from different oxidants (HOCl vs.) Tj ETQq1 1 60-69.	0.784314 5.3	4 rgBT /Overloc 130
22	Citric acid assisted Fenton-like process for enhanced dewaterability of waste activated sludge with in-situ generation of hydrogen peroxide. Water Research, 2018, 140, 232-242.	5.3	127
23	Role of Fe species in geopolymer synthesized from alkali-thermal pretreated Fe-rich Bayer red mud. Construction and Building Materials, 2019, 200, 398-407.	3.2	116
24	Preparation of glass-ceramics from red mud in the aluminium industries. Ceramics International, 2008, 34, 125-130.	2.3	114
25	Separator modified with N,S co-doped mesoporous carbon using egg shell as template for high performance lithium-sulfur batteries. Chemical Engineering Journal, 2017, 320, 178-188.	6.6	109
26	Preparation of low melting temperature glass–ceramics from municipal waste incineration fly ash. Fuel, 2009, 88, 1275-1280.	3.4	106
27	Enhanced sludge dewatering via homogeneous and heterogeneous Fenton reactions initiated by Fe-rich biochar derived from sludge. Chemical Engineering Journal, 2019, 372, 966-977.	6.6	102
28	Anaerobic fermentation of waste activated sludge for volatile fatty acid production: Recent updates of pretreatment methods and the potential effect of humic and nutrients substances. Chemical Engineering Research and Design, 2021, 145, 321-339.	2.7	101
29	Hydrometallurgical Recovery of Spent Lithium Ion Batteries: Environmental Strategies and Sustainability Evaluation. ACS Sustainable Chemistry and Engineering, 2021, 9, 5750-5767.	3.2	101
30	Experimental and simulative study on phase transformation in Bayer red mud soda-lime roasting system and recovery of Al, Na and Fe. Minerals Engineering, 2012, 39, 213-218.	1.8	100
31	Activated microporous-mesoporous carbon derived from chestnut shell as a sustainable anode material for high performance microbial fuel cells. Bioresource Technology, 2018, 249, 567-573.	4.8	98
32	Conditioning of sewage sludge by Fenton's reagent combined with skeleton builders. Chemosphere, 2012, 88, 235-239.	4.2	96
33	Facile preparation of flower-like NiMn layered double hydroxide/reduced graphene oxide microsphere composite for high-performance asymmetric supercapacitors. Journal of Alloys and Compounds, 2018, 730, 71-80.	2.8	96
34	Leaching of spent lead acid battery paste components by sodium citrate and acetic acid. Journal of Hazardous Materials, 2013, 250-251, 387-396.	6.5	94
35	One-pot solvothermal synthesis of magnetic biochar from waste biomass: Formation mechanism and efficient adsorption of Cr(VI) in an aqueous solution. Science of the Total Environment, 2019, 695, 133886.	3.9	94
36	Preparation and characterization of nano-structured lead oxide from spent lead acid battery paste. Journal of Hazardous Materials, 2012, 203-204, 274-282.	6.5	93

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37	Sludge-derived biochar with multivalent iron as an efficient Fenton catalyst for degradation of 4-Chlorophenol. Science of the Total Environment, 2020, 725, 138299.	3.9	93
38	A comparison between sulfuric acid and oxalic acid leaching with subsequent purification and precipitation for phosphorus recovery from sewage sludge incineration ash. Water Research, 2019, 159, 242-251.	5.3	92
39	Visible Light Driven Organic Pollutants Degradation with Hydrothermally Carbonized Sewage Sludge and Oxalate Via Molecular Oxygen Activation. Environmental Science & Technology, 2018, 52, 12656-12666.	4.6	89
40	Microplastics affect rice (Oryza sativa L.) quality by interfering metabolite accumulation and energy expenditure pathways: A field study. Journal of Hazardous Materials, 2022, 422, 126834.	6.5	76
41	Review on clean recovery of discarded/spent lead-acid battery and trends of recycled products. Journal of Power Sources, 2019, 436, 226853.	4.0	75
42	Preparation of basic lead oxide from spent lead acid battery paste via chemical conversion. Hydrometallurgy, 2012, 117-118, 24-31.	1.8	74
43	A novel hollow sphere bismuth oxide doped mesoporous carbon nanocomposite material derived from sustainable biomass for picomolar electrochemical detection of lead and cadmium. Journal of Materials Chemistry A, 2016, 4, 13967-13979.	5.2	69
44	Transformations of Na, Al, Si and Fe species in red mud during synthesis of one-part geopolymers. Cement and Concrete Research, 2017, 101, 123-130.	4.6	67
45	Synergic degradation of 2,4,6-trichlorophenol in microbial fuel cells with intimately coupled photocatalytic-electrogenic anode. Water Research, 2019, 156, 125-135.	5.3	66
46	Long-term stability of FeSO4 and H2SO4 treated chromite ore processing residue (COPR): Importance of H+ and SO42â~'. Journal of Hazardous Materials, 2017, 321, 720-727.	6.5	65
47	Enhanced hydrogen production in catalytic pyrolysis of sewage sludge by red mud: Thermogravimetric kinetic analysis and pyrolysis characteristics. International Journal of Hydrogen Energy, 2018, 43, 7795-7807.	3.8	65
48	Networked Cages for Enhanced CO ₂ Capture and Sensing. Advanced Science, 2018, 5, 1800141.	5.6	65
49	Sustained molecular oxygen activation by solid iron doped silicon carbide under microwave irradiation: Mechanism and application to norfloxacin degradation. Water Research, 2017, 126, 274-284.	5.3	64
50	In situ generation of zero valent iron for enhanced hydroxyl radical oxidation in an electrooxidation system for sewage sludge dewatering. Water Research, 2018, 145, 162-171.	5.3	64
51	An Emission-Free Vacuum Chlorinating Process for Simultaneous Sulfur Fixation and Lead Recovery from Spent Lead-Acid Batteries. Environmental Science & amp; Technology, 2018, 52, 2235-2241.	4.6	61
52	Preparation of lead carbonate from spent lead paste via chemical conversion. Hydrometallurgy, 2013, 134-135, 47-53.	1.8	60
53	Oxygen vacancy mediated surface charge redistribution of Cu-substituted LaFeO3 for degradation of bisphenol A by efficient decomposition of H2O2. Journal of Hazardous Materials, 2020, 389, 122072.	6.5	59
54	Selective extraction of lithium from a spent lithium iron phosphate battery by mechanochemical solid-phase oxidation. Green Chemistry, 2021, 23, 1344-1352.	4.6	59

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55	A comparatively optimization of dosages of oxidation agents based on volatile solids and dry solids content in dewatering of sewage sludge. Water Research, 2017, 126, 342-350.	5.3	58
56	Improving bromine fixation in co-pyrolysis of non-metallic fractions of waste printed circuit boards with Bayer red mud. Science of the Total Environment, 2018, 639, 1553-1559.	3.9	58
57	Novel Insights into Extracellular Polymeric Substance Degradation, Hydrophilic/Hydrophobic Characteristics, and Dewaterability of Waste Activated Sludge Pretreated by Hydroxylamine Enhanced Fenton Oxidation. ACS ES&T Engineering, 2021, 1, 385-392.	3.7	56
58	Functionalization of UiO-66-NH2 with rhodanine via amidation: Towarding a robust adsorbent with dual coordination sites for selective capture of Ag(I) from wastewater. Chemical Engineering Journal, 2020, 382, 123009.	6.6	55
59	Facile and Cost-Effective Approach for Copper Recovery from Waste Printed Circuit Boards via a Sequential Mechanochemical/Leaching/Recrystallization Process. Environmental Science & Technology, 2019, 53, 2748-2757.	4.6	54
60	Study on two operating conditions of a full-scale oxidation ditch for optimization of energy consumption and effluent quality by using CFD model. Water Research, 2011, 45, 3439-3452.	5.3	53
61	Study on dewaterability limit and energy consumption in sewage sludge electro-dewatering by in-situ linear sweep voltammetry analysis. Chemical Engineering Journal, 2017, 317, 980-987.	6.6	51
62	Lead acetate trihydrate precursor route to synthesize novel ultrafine lead oxide from spent lead acid battery pastes. Journal of Power Sources, 2014, 269, 565-576.	4.0	50
63	Effects of red mud on emission control of NOx precursors during sludge pyrolysis: A protein model compound study. Waste Management, 2019, 85, 452-463.	3.7	50
64	Enhanced visible-light driven photocatalytic activity of hybrid ZnO/g-C3N4 by high performance ball milling. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 350, 1-9.	2.0	48
65	A low-emission strategy to recover lead compound products directly from spent lead-acid battery paste: Key issue of impurities removal. Journal of Cleaner Production, 2019, 210, 1534-1544.	4.6	47
66	Preparation of sludge biochar rich in carboxyl/hydroxyl groups by quenching process and its excellent adsorption performance for Cr(VI). Chemosphere, 2021, 285, 131439.	4.2	46
67	Preparation of calcium sulfate whiskers from FGD gypsum via hydrothermal crystallization in the H2SO4–NaCl–H2O system. Particuology, 2014, 17, 42-48.	2.0	45
68	Catalytic degradation of PNP and stabilization/solidification of Cd simultaneously in soil using microwave-assisted Fe-bearing attapulgite. Chemical Engineering Journal, 2016, 304, 747-756.	6.6	45
69	Synthesis of Nanostructured PbO@C Composite Derived from Spent Leadâ€Acid Battery for Nextâ€Generation Leadâ€Carbon Battery. Advanced Functional Materials, 2018, 28, 1705294.	7.8	45
70	Profiling of amino acids and their interactions with proteinaceous compounds for sewage sludge dewatering by Fenton oxidation treatment. Water Research, 2020, 175, 115645.	5.3	45
71	A novel ultrafine leady oxide prepared from spent lead pastes forÂapplication as cathode of lead acid battery. Journal of Power Sources, 2014, 257, 27-36.	4.0	44
72	Enhanced sludge dewaterability with sludge-derived biochar activating hydrogen peroxide: Synergism of Fe and Al elements in biochar. Water Research, 2020, 182, 115927.	5.3	44

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73	New insight into the formation of polyhalogenated carbazoles: Aqueous chlorination of residual carbazole under bromide condition in drinking water. Water Research, 2019, 159, 252-261.	5.3	43
74	A bio-electro-Fenton system with a facile anti-biofouling air cathode for efficient degradation of landfill leachate. Chemosphere, 2019, 215, 173-181.	4.2	43
75	A Novel Solar Thermal Power Plant with Floating Chimney Stiffened onto a Mountainside and Potential of the Power Generation in China's Deserts. Heat Transfer Engineering, 2009, 30, 400-407.	1.2	42
76	A micromilled microgrid sensor with delaminated MXene-bismuth nanocomposite assembly for simultaneous electrochemical detection of lead(II), cadmium(II) and zinc(II). Mikrochimica Acta, 2019, 186, 776.	2.5	42
77	Ultrahigh-performance pseudocapacitor based on phase-controlled synthesis of MoS2 nanosheets decorated Ni3S2 hybrid structure through annealing treatment. Applied Surface Science, 2017, 425, 879-888.	3.1	41
78	Enhanced Sludge Dewaterability and Pathogen Inactivation by Synergistic Effects of Zero-Valent Iron and Ozonation. ACS Sustainable Chemistry and Engineering, 2019, 7, 324-331.	3.2	41
79	Degradation of refractory organics in dual-cathode electro-Fenton using air-cathode for H2O2 electrogeneration and microbial fuel cell cathode for Fe2+ regeneration. Journal of Hazardous Materials, 2021, 412, 125269.	6.5	41
80	Combined effects of Fenton peroxidation and CaO conditioning on sewage sludge thermal drying. Chemosphere, 2014, 117, 559-566.	4.2	40
81	Recent advances in metalloporphyrins for environmental and energy applications. Chemosphere, 2019, 219, 617-635.	4.2	40
82	A review on microwave irradiation to the properties of geopolymers: Mechanisms and challenges. Construction and Building Materials, 2021, 294, 123491.	3.2	40
83	Recent Advances and Perspective on Design and Synthesis of Electrode Materials for Electrochemical Sensing of Heavy Metals. Energy and Environmental Materials, 2018, 1, 113-131.	7.3	39
84	Valorization of manganese-containing groundwater treatment sludge by preparing magnetic adsorbent for Cu(II) adsorption. Journal of Environmental Management, 2019, 236, 446-454.	3.8	39
85	Microwave enhanced solidification/stabilization of lead slag with fly ash based geopolymer. Journal of Cleaner Production, 2020, 272, 122957.	4.6	39
86	Performance evaluation of microbial fuel cell for landfill leachate treatment: Research updates and synergistic effects of hybrid systems. Journal of Environmental Sciences, 2020, 96, 1-20.	3.2	39
87	Migration and distribution of sodium ions and organic matters during electro-dewatering of waste activated sludge at different dosages of sodium sulfate. Chemosphere, 2017, 189, 67-75.	4.2	38
88	Reuse of Ni-Co-Mn oxides from spent Li-ion batteries to prepare bifunctional air electrodes. Resources, Conservation and Recycling, 2018, 129, 135-142.	5.3	38
89	Occurrence and exposure risk evaluation of polyhalogenated carbazoles (PHCZs) in drinking water. Science of the Total Environment, 2021, 750, 141615.	3.9	38
90	Investigation on emission control of NOx precursors and phosphorus reclamation during pyrolysis of ferric sludge. Science of the Total Environment, 2019, 670, 932-940.	3.9	37

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91	Correlation between oxidation-reduction potential values and sludge dewaterability during pre-oxidation. Water Research, 2019, 155, 96-105.	5.3	37
92	Fe and N co-doped carbon derived from melamine resin capsuled biomass as efficient oxygen reduction catalyst for air-cathode microbial fuel cells. International Journal of Hydrogen Energy, 2020, 45, 3163-3175.	3.8	37
93	Enhanced quorum sensing of anode biofilm for better sensing linearity and recovery capability of microbial fuel cell toxicity sensor. Environmental Research, 2020, 181, 108906.	3.7	36
94	Lead citrate precursor route to synthesize nanostructural lead oxide from spent lead acid battery paste. Materials Research Bulletin, 2013, 48, 1700-1708.	2.7	35
95	Red mud enhanced hydrogen production from pyrolysis of deep-dewatered sludge cakes conditioned with Fenton's reagent and red mud. International Journal of Hydrogen Energy, 2016, 41, 16762-16771.	3.8	35
96	A novel leady oxide combined with porous carbon skeleton synthesized from lead citrate precursor recovered from spent lead-acid battery paste. Journal of Power Sources, 2016, 304, 128-135.	4.0	34
97	Support-dependent active species formation for CuO catalysts: Leading to efficient pollutant degradation in alkaline conditions. Journal of Hazardous Materials, 2017, 328, 56-62.	6.5	34
98	Effects of temperature variation on wastewater sludge electro-dewatering. Journal of Cleaner Production, 2019, 214, 873-880.	4.6	34
99	Biogas and phosphorus recovery from waste activated sludge with protocatechuic acid enhanced Fenton pretreatment, anaerobic digestion and microbial electrolysis cell. Science of the Total Environment, 2020, 704, 135274.	3.9	34
100	A cost-effective strategy for metal recovery from waste printed circuit boards via crushing pretreatment combined with pyrolysis: Effects of particle size and pyrolysis temperature. Journal of Cleaner Production, 2021, 280, 124505.	4.6	34
101	Durability of autoclaved construction materials of sewage sludge–cement–fly ash–furnace slag. Construction and Building Materials, 2013, 48, 398-405.	3.2	33
102	A waste-minimized biorefinery scenario for the hierarchical conversion of agricultural straw into prebiotic xylooligosaccharides, fermentable sugars and lithium-sulfur batteries. Industrial Crops and Products, 2019, 129, 269-280.	2.5	33
103	A one-step acidification strategy for sewage sludge dewatering with oxalic acid. Chemosphere, 2020, 238, 124598.	4.2	32
104	Kinetic simulation and prediction of pyrolysis process for non-metallic fraction of waste printed circuit boards by discrete distributed activation energy model compared with isoconversional method. Environmental Science and Pollution Research, 2018, 25, 3636-3646.	2.7	31
105	Numerical Investigation of a Compressible Flow Through a Solar Chimney. Heat Transfer Engineering, 2009, 30, 670-676.	1.2	30
106	Molybdenum–Tungsten Mixed Oxide Deposited into Titanium Dioxide Nanotube Arrays for Ultrahigh Rate Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 18699-18709.	4.0	30
107	Hydrothermal synthesis of a magnetic adsorbent from wasted iron mud for effective removal of heavy metals from smelting wastewater. Environmental Science and Pollution Research, 2018, 25, 22710-22724.	2.7	30
108	Enzyme immobilization on amino-functionalized Fe3O4@SiO2 via electrostatic interaction with enhancing biocatalysis in sludge dewatering. Chemical Engineering Journal, 2022, 427, 131976.	6.6	30

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109	Mechano-chemical synthesis of high-stable PbO@C composite for enhanced performance of lead-carbon battery. Electrochimica Acta, 2019, 299, 682-691.	2.6	29
110	Simultaneous heavy metal removal and sludge deep dewatering with Fe(II) assisted electrooxidation technology. Journal of Hazardous Materials, 2021, 405, 124072.	6.5	29
111	Surface modification of Shewanella oneidensis MR-1 with polypyrrole-dopamine coating for improvement of power generation in microbial fuel cells. Journal of Power Sources, 2021, 483, 229220.	4.0	29
112	Enhancing waste activated sludge dewaterability by reducing interaction energy of sludge flocs. Environmental Research, 2021, 196, 110328.	3.7	29
113	Simulation of flow field and sludge settling in a full-scale oxidation ditch by using a two-phase flow CFD model. Chemical Engineering Science, 2014, 109, 296-305.	1.9	28
114	Green Synthesis of Magnetic Adsorbent Using Groundwater Treatment Sludge for Tetracycline Adsorption. Engineering, 2019, 5, 880-887.	3.2	28
115	Enhanced 2,4,6-trichlorophenol degradation and biogas production with a coupled microbial electrolysis cell and anaerobic granular sludge system. Bioresource Technology, 2020, 303, 122958.	4.8	28
116	Integration of electrochemical and calcium hypochlorite oxidation for simultaneous sludge deep dewatering, stabilization and phosphorus fixation. Science of the Total Environment, 2021, 750, 141408.	3.9	28
117	Microalgae-assisted fixed-film activated sludge MFC for landfill leachate treatment and energy recovery. Chemical Engineering Research and Design, 2022, 160, 221-231.	2.7	28
118	High efficient catalytic degradation of PNP over Cu-bearing catalysts with microwave irradiation. Chemical Engineering Journal, 2017, 323, 444-454.	6.6	27
119	Enhanced treatment of landfill leachate with cathodic algal biofilm and oxygen-consuming unit in a hybrid microbial fuel cell system. Bioresource Technology, 2020, 310, 123420.	4.8	27
120	Synthesis and characterization of a magnetic adsorbent from negatively-valued iron mud for methylene blue adsorption. PLoS ONE, 2018, 13, e0191229.	1.1	27
121	Ethylene glycol-mediated synthesis of PbO nanocrystal from PbSO4: A major component of lead paste in spent lead acid battery. Materials Chemistry and Physics, 2011, 131, 336-342.	2.0	26
122	Electrocatalytic activity of lithium polysulfides adsorbed into porous TiO2 coated MWCNTs hybrid structure for lithium-sulfur batteries. Scientific Reports, 2017, 7, 40679.	1.6	26
123	Phase-controlled solvothermal synthesis and morphology evolution of nickel sulfide and its pseudocapacitance performance. Ceramics International, 2017, 43, 3080-3088.	2.3	26
124	Green synthesis of magnetic sodalite sphere by using groundwater treatment sludge for tetracycline adsorption. Journal of Cleaner Production, 2020, 247, 119140.	4.6	26
125	Effect of pH on desulphurization of spent lead paste via hydrometallurgical process. Hydrometallurgy, 2016, 164, 83-89.	1.8	25
126	Synergistic effect of water content and composite conditioner of Fenton's reagent combined with red mud on the enhanced hydrogen production from sludge pyrolysis. Water Research, 2017, 123, 378-387.	5.3	25

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127	Recirculation of reject water in deep-dewatering process to influent of wastewater treatment plant and dewaterability of sludge conditioned with Fe2+/H2O2, Fe2+/Ca(ClO)2, and Fe2+/Na2S2O8: From bench to pilot-scale study. Environmental Research, 2022, 203, 111825.	3.7	25
128	Combustion synthesis of PbO from lead carboxylate precursors relevant to developing a new method for recovering components from spent lead–acid batteries. Journal of Chemical Technology and Biotechnology, 2012, 87, 1480-1488.	1.6	23
129	A closed-loop ammonium salt system for recovery of high-purity lead tetroxide product from spent lead-acid battery paste. Journal of Cleaner Production, 2020, 250, 119488.	4.6	23
130	Predicting the higher heating value of syngas pyrolyzed from sewage sludge using an artificial neural network. Environmental Science and Pollution Research, 2020, 27, 785-797.	2.7	23
131	Phosphorus recovery from incinerated sewage sludge ash (ISSA) and reutilization of residues for sludge pretreated by different conditioners. Resources, Conservation and Recycling, 2021, 169, 105524.	5.3	23
132	Evaluation on Hydration Reactivity of Reactive Magnesium Oxide Prepared by Calcining Magnesite at Lower Temperatures. Industrial & Engineering Chemistry Research, 2013, 52, 6430-6437.	1.8	22
133	Influence of Fe ²⁺ -sodium persulfate on extracellular polymeric substances and dewaterability of sewage sludge. Desalination and Water Treatment, 2015, 53, 2655-2663.	1.0	22
134	Comparison of clogging induced by organic and inorganic suspended particles in a porous medium: implications for choosing physical clogging indicators. Journal of Soils and Sediments, 2018, 18, 2980-2994.	1.5	22
135	Deciphering the impacts of composition of extracellular polymeric substances on sludge dewaterability: An often overlooked role of amino acids. Chemosphere, 2021, 284, 131297.	4.2	22
136	Ultrasensitive and Simultaneous Electrochemical Determination of Pb ²⁺ and Cd ²⁺ Based on Biomass Derived Lotus Root-Like Hierarchical Porous Carbon/Bismuth Composite. Journal of the Electrochemical Society, 2020, 167, 087505.	1.3	22
137	Transforming anaerobically digested sludge into high-quality biosolids with an integrated physiochemical approach. Resources, Conservation and Recycling, 2022, 184, 106416.	5.3	22
138	Flow field prediction in full-scale Carrousel oxidation ditch by using computational fluid dynamics. Water Science and Technology, 2010, 62, 256-265.	1.2	21
139	Synthesis of 3D hierarchically porous carbon@Bi-BiOCl nanocomposites via in situ generated NaCl crystals as templates for highly sensitive detection of Pb2+ and Cd2+. Electrochimica Acta, 2019, 318, 460-470.	2.6	21
140	Facile synthesis of mesoporous graphene platelets with in situ nitrogen and sulfur doping for lithium–sulfur batteries. RSC Advances, 2017, 7, 22567-22577.	1.7	20
141	Stepwise extraction of Fe, Al, Ca, and Zn: A green route to recycle raw electroplating sludge. Journal of Environmental Management, 2021, 300, 113700.	3.8	20
142	Structural study of a lead (<scp>II</scp>) organic complex–Âa key precursor in a green recovery route for spent leadâ€acid battery paste. Journal of Chemical Technology and Biotechnology, 2016, 91, 672-679.	1.6	19
143	Enhanced detection of toxicity in wastewater using a 2D smooth anode based microbial fuel cell toxicity sensor. RSC Advances, 2019, 9, 8700-8706.	1.7	19
144	The evaluation of long term performance of microbial fuel cell based Pb toxicity shock sensor. Chemosphere, 2021, 270, 129455.	4.2	19

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145	Efficient degradation of refractory pollutant in a microbial fuel cell with novel hybrid photocatalytic air-cathode: Intimate coupling of microbial and photocatalytic processes. Bioresource Technology, 2021, 340, 125717.	4.8	19
146	Hierarchically porous biochar preparation and simultaneous nutrient recovery from sewage sludge via three steps of alkali-activated pyrolysis, water leaching and acid leaching. Resources, Conservation and Recycling, 2022, 176, 105953.	5.3	19
147	Bimetallic synergistic degradation of chlorophenols by CuCoO _x –LDH catalyst in bicarbonate-activated hydrogen peroxide system. RSC Advances, 2016, 6, 72643-72653.	1.7	18
148	A study on Pb2+/Pb electrodes for soluble lead redox flow cells prepared with methanesulfonic acid and recycled lead. Journal of Applied Electrochemistry, 2016, 46, 861-868.	1.5	18
149	Ferrite as an effective catalyst for HCB removal in soil: Characterization and catalytic performance. Chemical Engineering Journal, 2016, 294, 246-253.	6.6	18
150	Lead adsorption from aqueous solutions by a granular adsorbent prepared from phoenix tree leaves. RSC Advances, 2016, 6, 25393-25400.	1.7	18
151	Synthesis of the PbS Dendritic Nanostructure Recovered from a Spent Lead-Acid Battery via an Integrated Vacuum Chlorinating and Hydrothermal Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 17333-17339.	3.2	18
152	Stabilization and Mineralization Mechanism of Cd with Cu-Loaded Attapulgite Stabilizer Assisted with Microwave Irradiation. Environmental Science & amp; Technology, 2018, 52, 12624-12632.	4.6	18
153	A facile lead acetate conversion process for synthesis of highâ€purity alphaâ€lead oxide derived from spent leadâ€acid batteries. Journal of Chemical Technology and Biotechnology, 2019, 94, 88-97.	1.6	18
154	The effects of aging for improving wastewater sludge electro-dewatering performances. Journal of Industrial and Engineering Chemistry, 2019, 80, 647-655.	2.9	18
155	Predicting the hormesis and toxicological interaction of mixtures by an improved inverse distance weighted interpolation. Environment International, 2019, 130, 104892.	4.8	18
156	A zero-waste strategy to synthesize geopolymer from iron-recovered Bayer red mud combined with fly ash: Roles of Fe, Al and Si. Construction and Building Materials, 2022, 322, 126176.	3.2	18
157	Aerobic granular sludge inoculated microbial fuel cells for enhanced epoxy reactive diluent wastewater treatment. Bioresource Technology, 2017, 229, 126-133.	4.8	17
158	Recent Advances on the Development of Functional Materials in Microbial Fuel Cells: From Fundamentals to Challenges and Outlooks. Energy and Environmental Materials, 2022, 5, 401-426.	7.3	17
159	An efficient hydrodynamic-biokinetic model for the optimization of operational strategy applied in a full-scale oxidation ditch by CFD integrated with ASM2. Water Research, 2021, 193, 116888.	5.3	17
160	Effect of iron doped lead oxide on the performance of lead acid batteries. Journal of Power Sources, 2011, 196, 8802-8808.	4.0	16
161	Stannous sulfate as an electrolyte additive for lead acid battery made from a novel ultrafine leady oxide. Journal of Power Sources, 2015, 285, 485-492.	4.0	16
162	The effect of barium sulfate-doped lead oxide as a positive active material on the performance of lead acid batteries. RSC Advances, 2016, 6, 27205-27212.	1.7	16

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