

Xia Dong

List of Publications by Year in descending order

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55
papers

3,150
citations

186265

28
h-index

155660

55
g-index

59
all docs

59
docs citations

59
times ranked

3699
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and application of chars produced from pinewood pyrolysis and hydrothermal treatment. <i>Fuel</i> , 2010, 89, 510-514.	6.4	433
2	Effects of various solvents on the liquefaction of biomass to produce fuels and chemical feedstocks. <i>Energy Conversion and Management</i> , 2008, 49, 3498-3504.	9.2	316
3	An environmental benign process for cobalt and lithium recovery from spent lithium-ion batteries by mechanochemical approach. <i>Waste Management</i> , 2016, 51, 239-244.	7.4	167
4	Arsenate removal from water using Fe ₃ O ₄ -loaded activated carbon prepared from waste biomass. <i>Chemical Engineering Journal</i> , 2010, 160, 57-62.	12.7	159
5	Recycling of spent lithium-ion battery with polyvinyl chloride by mechanochemical process. <i>Waste Management</i> , 2017, 67, 232-239.	7.4	120
6	Lead recovery and the feasibility of foam glass production from funnel glass of dismantled cathode ray tube through pyrovacuum process. <i>Journal of Hazardous Materials</i> , 2009, 161, 1109-1113.	12.4	119
7	Removal of copper (II) and phenol from aqueous solution using porous carbons derived from hydrothermal chars. <i>Desalination</i> , 2011, 267, 101-106.	8.2	109
8	A green process for exfoliating electrode materials and simultaneously extracting electrolyte from spent lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2019, 375, 43-51.	12.4	109
9	Photocatalytic oxidation and removal of arsenite from water using slag-iron oxide-TiO ₂ adsorbent. <i>Chemosphere</i> , 2006, 65, 125-131.	8.2	107
10	Catalytic oxidation of Methyl Orange by an amorphous FeOOH catalyst developed from a high iron-containing fly ash. <i>Chemical Engineering Journal</i> , 2010, 158, 148-153.	12.7	104
11	Innovative leaching of cobalt and lithium from spent lithium-ion batteries and simultaneous dechlorination of polyvinyl chloride in subcritical water. <i>Journal of Hazardous Materials</i> , 2016, 316, 19-25.	12.4	97
12	Extraction of metals from municipal solid waste incinerator fly ash by hydrothermal process. <i>Journal of Hazardous Materials</i> , 2006, 136, 663-670.	12.4	90
13	Degradation of brominated flame retardant in computer housing plastic by supercritical fluids. <i>Journal of Hazardous Materials</i> , 2012, 205-206, 156-163.	12.4	85
14	Chemical properties of heavy metals in typical hospital waste incinerator ashes in China. <i>Waste Management</i> , 2009, 29, 1114-1121.	7.4	80
15	Direct extraction of palladium and silver from waste printed circuit boards powder by supercritical fluids oxidation-extraction process. <i>Journal of Hazardous Materials</i> , 2016, 318, 216-223.	12.4	71
16	Arsenic (V) removal from aqueous system using adsorbent developed from a high iron-containing fly ash. <i>Science of the Total Environment</i> , 2009, 407, 5780-5786.	8.0	64
17	Preparation of nano-Cu ₂ O/TiO ₂ photocatalyst from waste printed circuit boards by electrokinetic process. <i>Journal of Hazardous Materials</i> , 2009, 172, 1458-1463.	12.4	58
18	Catalytic dechlorination of polychlorinated biphenyls in subcritical water by Ni/Fe nanoparticles. <i>Chemical Engineering Journal</i> , 2011, 171, 919-925.	12.7	55

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19	Nano-lead particle synthesis from waste cathode ray-tube funnel glass. <i>Journal of Hazardous Materials</i> , 2011, 194, 407-413.	12.4	54
20	Electrokinetic recovery of Cd, Cr, As, Ni, Zn and Mn from waste printed circuit boards: Effect of assisting agents. <i>Journal of Hazardous Materials</i> , 2009, 170, 191-196.	12.4	53
21	A novel approach for preparing silver nanoparticles under electron beam irradiation. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1423-1428.	1.9	52
22	A new approach for blending waste plastics processing: Superabsorbent resin synthesis. <i>Journal of Cleaner Production</i> , 2018, 197, 501-510.	9.3	50
23	Electrochemical Approaches for the Recovery of Metals from Electronic Waste: A Critical Review. <i>Recycling</i> , 2021, 6, 53.	5.0	43
24	Removal of brominated flame retardant from electrical and electronic waste plastic by solvothermal technique. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 193-198.	12.4	42
25	Advanced degradation of brominated epoxy resin and simultaneous transformation of glass fiber from waste printed circuit boards by improved supercritical water oxidation processes. <i>Waste Management</i> , 2016, 56, 423-430.	7.4	39
26	Synthesis of graphene and recovery of lithium from lithiated graphite of spent Li-ion battery. <i>Waste Management</i> , 2021, 124, 283-292.	7.4	38
27	Detoxification of cathode ray tube glass by self-propagating process. <i>Journal of Hazardous Materials</i> , 2009, 165, 980-986.	12.4	30
28	An effective adsorbent developed from municipal solid waste and coal co-combustion ash for As(V) removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2008, 159, 313-318.	12.4	29
29	Selectively peeling of spent LiFePO ₄ cathode by destruction of crystal structure and binder matrix for efficient recycling of spent battery materials. <i>Journal of Hazardous Materials</i> , 2020, 386, 121633.	12.4	29
30	A green process for phosphorus recovery from spent LiFePO ₄ batteries by transformation of delithiated LiFePO ₄ crystal into NaFeS ₂ . <i>Journal of Hazardous Materials</i> , 2020, 395, 122614.	12.4	29
31	Natural ²²² Rn and ²²⁰ Rn indicate the impact of the Water-Sediment Regulation Scheme (WSRS) on submarine groundwater discharge in the Yellow River estuary, China. <i>Applied Geochemistry</i> , 2014, 51, 79-85.	3.0	27
32	Concentrations and fluxes of dissolved uranium in the Yellow River estuary: seasonal variation and anthropogenic (Water-Sediment Regulation Scheme) impact. <i>Journal of Environmental Radioactivity</i> , 2014, 128, 38-46.	1.7	24
33	Recycling phosphorus from spent LiFePO ₄ battery for multifunctional slow-release fertilizer preparation and simultaneous recovery of Lithium. <i>Chemical Engineering Journal</i> , 2021, 426, 131311.	12.7	24
34	Evaluation of lead recovery efficiency from waste CRT funnel glass by chlorinating volatilization process. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2774-2780.	2.2	23
35	Recovery of triphenyl phosphate from waste printed circuit boards by solvothermal process. <i>Chemical Engineering Journal</i> , 2014, 240, 10-15.	12.7	20
36	Effective utilization of waste cathode ray tube glass-Crystalline silicotitanate synthesis. <i>Journal of Hazardous Materials</i> , 2010, 182, 45-49.	12.4	17

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37	Variations of Hydrodynamics and Submarine Groundwater Discharge in the Yellow River Estuary Under the Influence of the Water-Sediment Regulation Scheme. <i>Estuaries and Coasts</i> , 2016, 39, 333-343.	2.2	16
38	Characterization of a novel sound absorption material derived from waste agricultural film. <i>Construction and Building Materials</i> , 2017, 157, 237-243.	7.2	16
39	A novel process utilizing subcritical water and nitilotriacetic acid to extract hazardous elements from MSW incinerator fly ash. <i>Science of the Total Environment</i> , 2006, 369, 273-279.	8.0	15
40	Development of porous ceramsite from construction and demolition waste. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2241-2249.	2.2	15
41	A novel dry cleaning system for contaminated waste plastic purification in gas-solid media. <i>Journal of Cleaner Production</i> , 2018, 171, 1472-1480.	9.3	15
42	Zeolite loaded ceramsite developed from construction and demolition waste. <i>Materials Letters</i> , 2013, 93, 380-382.	2.6	12
43	Radium isotopesâ€suspended sediment relationships in a muddy river. <i>Chemosphere</i> , 2019, 214, 250-258.	8.2	10
44	On-line spectroscopic study of brominated flame retardant extraction in supercritical CO ₂ . <i>Chemosphere</i> , 2021, 263, 128282.	8.2	10
45	Effect of steam jet on oil reclamation and purification from layered oily sludge. <i>Fuel</i> , 2020, 263, 116731.	6.4	9
46	Preparing silver nanoparticles in supercritical water. <i>Materials Letters</i> , 2009, 63, 437-440.	2.6	8
47	Advantage of solvothermal procedure for polychlorinated biphenyls removal from e-waste contaminated site. <i>Chemical Engineering Journal</i> , 2011, 178, 93-99.	12.7	8
48	Detoxification effect of chlorination procedure on waste lead glass. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 623-628.	3.0	8
49	Upcycling of blending waste plastics as zwitterionic hydrogel for simultaneous removal of cationic and anionic heavy metals from aqueous system. <i>Journal of Hazardous Materials</i> , 2022, 432, 128746.	12.4	8
50	Characterization of a cetyltrimethyl ammonium bromide-modified sorbent for removal of perfluorooctane sulphonate from water. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2556-2568.	2.2	7
51	Tetrabromobisphenol A recovery from computer housing plastic by a new solvothermal process. <i>Environmental Chemistry Letters</i> , 2014, 12, 347-352.	16.2	6
52	Recycling oxygen from spaceflight solid waste for life support system: Potential of pyrolysis process. <i>Chemical Engineering Journal</i> , 2018, 334, 479-486.	12.7	5
53	Upcycling of blending waste plastics as flexible growing substrate with superabsorbing property. <i>Chemical Engineering Journal</i> , 2022, 435, 134622.	12.7	5
54	A novel process for preparing fireproofing materials from various industrial wastes. <i>Journal of Environmental Management</i> , 2018, 219, 332-339.	7.8	4

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55	Degradation of organic compounds in hypersaline wastewater concentrate by a supercritical oxidation approach. Environmental Technology (United Kingdom), 2023, 44, 1613-1625.	2.2	1