

Rajasekhar Balasubramanian

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239
papers

12,864
citations

61
h-index

104
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253
ext. papers

14,732
ext. citations

7
avg, IF

7.22
L-index

#	Paper	IF	Citations
239	Hydrothermal conversion of biomass waste to activated carbon with high porosity: A review. <i>Chemical Engineering Journal</i> , 2016 , 283, 789-805	14.7	614
238	Production of solid biochar fuel from waste biomass by hydrothermal carbonization. <i>Fuel</i> , 2013 , 103, 943-949	7.1	486
237	Ammonia in the atmosphere: a review on emission sources, atmospheric chemistry and deposition on terrestrial bodies. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 8092-131	5.1	454
236	Recent advances in the use of graphene-family nanoadsorbents for removal of toxic pollutants from wastewater. <i>Advances in Colloid and Interface Science</i> , 2014 , 204, 35-56	14.3	367
235	Food waste-to-energy conversion technologies: current status and future directions. <i>Waste Management</i> , 2015 , 38, 399-408	8.6	365
234	Chemical, structural and combustion characteristics of carbonaceous products obtained by hydrothermal carbonization of palm empty fruit bunches. <i>Bioresource Technology</i> , 2013 , 135, 683-9	11	297
233	Evaluation of the marine algae <i>Ulva fasciata</i> and <i>Sargassum</i> sp. for the biosorption of Cu(II) from aqueous solutions. <i>Bioresource Technology</i> , 2007 , 98, 452-5	11	225
232	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. <i>Atmospheric Research</i> , 2013 , 122, 403-468	5.4	207
231	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. <i>Scientific Reports</i> , 2013 , 3, 3002	4.9	195
230	Preparation and characterization of fuel pellets from woody biomass, agro-residues and their corresponding hydrochars. <i>Applied Energy</i> , 2014 , 113, 1315-1322	10.7	188
229	Chemical characteristics of fine particles emitted from different gas cooking methods. <i>Atmospheric Environment</i> , 2008 , 42, 8852-8862	5.3	185
228	Liquefaction of waste tires by pyrolysis for oil and chemicals: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 101, 1-16	6	184
227	2013 Southeast Asian smoke haze: fractionation of particulate-bound elements and associated health risk. <i>Environmental Science & Technology</i> , 2014 , 48, 4327-35	10.3	182
226	Graphene/semiconductor nanocomposites (GSNs) for heterogeneous photocatalytic decolorization of wastewaters contaminated with synthetic dyes: A review. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 307-324	21.8	167
225	Biomass derived low-cost microporous adsorbents for efficient CO ₂ capture. <i>Fuel</i> , 2015 , 148, 246-254	7.1	164
224	Is biosorption suitable for decontamination of metal-bearing wastewaters? A critical review on the state-of-the-art of biosorption processes and future directions. <i>Journal of Environmental Management</i> , 2015 , 160, 283-96	7.9	158
223	Risk assessment of exposure to indoor aerosols associated with Chinese cooking. <i>Environmental Research</i> , 2006 , 102, 197-204	7.9	156

222	Upgrading of waste biomass by hydrothermal carbonization (HTC) and low temperature pyrolysis (LTP): A comparative evaluation. <i>Applied Energy</i> , 2014 , 114, 857-864	10.7	145
221	Hydrothermal carbonization of sewage sludge for energy production with coal. <i>Fuel</i> , 2013 , 111, 201-210	7.1	145
220	Measurements of sulfur dioxide, ozone and ammonia concentrations in Asia, Africa, and South America using passive samplers. <i>Atmospheric Environment</i> , 2003 , 37, 1293-1308	5.3	139
219	Hydrothermal conversion of urban food waste to chars for removal of textile dyes from contaminated waters. <i>Bioresource Technology</i> , 2014 , 161, 310-9	11	129
218	A field study to evaluate runoff quality from green roofs. <i>Water Research</i> , 2012 , 46, 1337-45	12.5	128
217	Thermogravimetric investigation of hydrochar-lignite co-combustion. <i>Bioresource Technology</i> , 2012 , 123, 646-52	11	123
216	Mesoporous activated carbons with enhanced porosity by optimal hydrothermal pre-treatment of biomass for supercapacitor applications. <i>Microporous and Mesoporous Materials</i> , 2015 , 218, 55-61	5.3	118
215	Determination of organic micropollutants in rainwater using hollow fiber membrane/liquid-phase microextraction combined with gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2003 , 1016, 11-20	4.5	118
214	Production of high surface area mesoporous activated carbons from waste biomass using hydrogen peroxide-mediated hydrothermal treatment for adsorption applications. <i>Chemical Engineering Journal</i> , 2015 , 273, 622-629	14.7	116
213	Removal of microcystin-LR and microcystin-RR by graphene oxide: adsorption and kinetic experiments. <i>Water Research</i> , 2013 , 47, 4621-9	12.5	116
212	Recent advances and progress in the development of graphene-based adsorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21968-21989	13	111
211	Contrasting reactive oxygen species and transition metal concentrations in combustion aerosols. <i>Environmental Research</i> , 2007 , 103, 317-24	7.9	107
210	Biosorption of Lanthanum, Cerium, Europium, and Ytterbium by a Brown Marine Alga, <i>Turbinaria Conoides</i> . <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4405-4411	3.9	104
209	Removal of Cr(VI) Ions by Spent Tea and Coffee Dusts: Reduction to Cr(III) and Biosorption. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2113-2117	3.9	104
208	Influence of butanol addition to diesel/Biodiesel blend on engine performance and particulate emissions of a stationary diesel engine. <i>Applied Energy</i> , 2014 , 119, 530-536	10.7	100
207	Investigation of particulate emission characteristics of a diesel engine fueled with higher alcohols/biodiesel blends. <i>Applied Energy</i> , 2016 , 163, 71-80	10.7	99
206	Health risk assessment of occupational exposure to particulate-phase polycyclic aromatic hydrocarbons associated with Chinese, Malay and Indian cooking. <i>Journal of Environmental Monitoring</i> , 2006 , 8, 369-76		99
205	Post-combustion CO ₂ capture using mesoporous TiO ₂ /graphene oxide nanocomposites. <i>Chemical Engineering Journal</i> , 2015 , 263, 374-384	14.7	96

204	Biosynthesis of Au(0) from Au(III) via biosorption and bioreduction using brown marine alga <i>Turbinaria conoides</i> . <i>Chemical Engineering Journal</i> , 2011 , 167, 223-227	14.7	96
203	Variation in global chemical composition of PM _{2.5} ; emerging results from SPARTAN. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9629-9653	6.8	92
202	A study of the physical, chemical, and optical properties of ambient aerosol particles in Southeast Asia during hazy and nonhazy days. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		91
201	Characterization and source apportionment of particulate matter Environmental Science & Technology, 2007 , 41, 3488-94	10.3	90
200	TGA&TIR investigation of co-combustion characteristics of blends of hydrothermally carbonized oil palm biomass (EFB) and coal. <i>Fuel Processing Technology</i> , 2014 , 118, 228-234	7.2	88
199	Microwave assisted sample preparation for determining water-soluble fraction of trace elements in urban airborne particulate matter: evaluation of bioavailability. <i>Analytica Chimica Acta</i> , 2006 , 576, 23-30	6.6	88
198	Chemical characterization of rainwater at Singapore. <i>Chemosphere</i> , 2003 , 51, 747-55	8.4	87
197	Chemical and Statistical Analysis of Precipitation in Singapore. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 451-456	2.6	81
196	Contribution of vegetation and peat fires to particulate air pollution in Southeast Asia. <i>Environmental Research Letters</i> , 2014 , 9, 094006	6.2	80
195	Assessing the regional impact of Indonesian biomass burning emissions based on organic molecular tracers and chemical mass balance modeling. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8043-8054	6.8	78
194	Single and binary biosorption of cerium and europium onto crab shell particles. <i>Chemical Engineering Journal</i> , 2010 , 163, 337-343	14.7	77
193	Hydrothermal pre-treatment for mesoporous carbon synthesis: enhancement of chemical activation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 520-528	13	76
192	Chemical speciation of trace metals emitted from Indonesian peat fires for health risk assessment. <i>Atmospheric Research</i> , 2013 , 122, 571-578	5.4	76
191	Physical Characteristics of Ultrafine Particles Emitted from Different Gas Cooking Methods. <i>Aerosol and Air Quality Research</i> , 2006 , 6, 82-92	4.6	74
190	Three-Dimensional Graphene-Based Porous Adsorbents for Postcombustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7906-7916	3.9	72
189	Comparative evaluation of the effect of butanol&iesel and pentanol&iesel blends on carbonaceous particulate composition and particle number emissions from a diesel engine. <i>Fuel</i> , 2016 , 176, 40-47	7.1	72
188	Hydrothermal Carbonization of Waste Biomass for Energy Generation. <i>Procedia Environmental Sciences</i> , 2012 , 16, 159-166		70
187	Biosorption characteristics of crab shell particles for the removal of manganese(II) and zinc(II) from aqueous solutions. <i>Desalination</i> , 2011 , 266, 195-200	10.3	70

186	Application of Sargassum biomass to remove heavy metal ions from synthetic multi-metal solutions and urban storm water runoff. <i>Journal of Hazardous Materials</i> , 2009 , 164, 1019-23	12.8	68
185	Equilibrium Isotherm Studies for the Multicomponent Adsorption of Lead, Zinc, and Cadmium onto Indonesian Peat. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2093-2099	3.9	66
184	Optimization and validation of solid phase micro-extraction (SPME) method for analysis of polycyclic aromatic hydrocarbons in rainwater and stormwater. <i>Physics and Chemistry of the Earth</i> , 2009 , 34, 857-865	3	66
183	Ionic liquid supported three-phase liquid-liquid-liquid microextraction as a sample preparation technique for aliphatic and aromatic hydrocarbons prior to gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1210, 19-24	4.5	66
182	Li-ion vs. Na-ion capacitors: A performance evaluation with coconut shell derived mesoporous carbon and natural plant based hard carbon. <i>Chemical Engineering Journal</i> , 2017 , 316, 506-513	14.7	64
181	Physicochemical and toxicological characteristics of urban aerosols during a recent Indonesian biomass burning episode. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2569-78	5.1	64
180	Dry and wet atmospheric deposition of nitrogen and phosphorus in Singapore. <i>Atmospheric Environment</i> , 2011 , 45, 2760-2768	5.3	63
179	Optimization and validation of a low temperature microwave-assisted extraction method for analysis of polycyclic aromatic hydrocarbons in airborne particulate matter. <i>Talanta</i> , 2006 , 69, 79-86	6.2	61
178	Highly efficient, rapid and selective CO ₂ capture by thermally treated graphene nanosheets. <i>Journal of CO₂ Utilization</i> , 2016 , 13, 50-60	7.6	60
177	Green Recovery of Gold through Biosorption, Biocrystallization, and Pyro-Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 7129-7135	3.9	60
176	Composition of semi-volatile organic compounds in the urban atmosphere of Singapore: influence of biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11401-11413	6.8	59
175	Energy, exergy and techno-economic analyses of hydrothermal oxidation of food waste to produce hydro-char and bio-oil. <i>Energy</i> , 2016 , 102, 187-198	7.9	57
174	Interaction of rare earth elements with a brown marine alga in multi-component solutions. <i>Desalination</i> , 2011 , 265, 54-59	10.3	57
173	Highly mesoporous carbon from Teak wood sawdust as prospective electrode for the construction of high energy Li-ion capacitors. <i>Electrochimica Acta</i> , 2017 , 228, 131-138	6.7	56
172	Nitrogen-doped graphene hydrogels as potential adsorbents and photocatalysts for environmental remediation. <i>Chemical Engineering Journal</i> , 2017 , 327, 751-763	14.7	56
171	Wet Deposition of Trace Metals in Singapore. <i>Water, Air, and Soil Pollution</i> , 2003 , 144, 285-300	2.6	56
170	Characterization of traffic-related ambient fine particulate matter (PM 2.5) in an Asian city: Environmental and health implications. <i>Atmospheric Environment</i> , 2017 , 161, 132-143	5.3	55
169	A study of gas/particle partitioning of SVOCs in the tropical atmosphere of Southeast Asia. <i>Atmospheric Environment</i> , 2009 , 43, 4375-4383	5.3	55

168	Characteristics and environmental mobility of trace elements in urban runoff. <i>Chemosphere</i> , 2010 , 80, 310-8	8.4	55
167	Toxicological evaluation of microcystins in aquatic fish species: current knowledge and future directions. <i>Aquatic Toxicology</i> , 2013 , 142-143, 1-16	5.1	54
166	Methods and Approaches Used for Detection of Cyanotoxins in Environmental Samples: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 1349-1383	11.1	54
165	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. <i>Progress in Materials Science</i> , 2017 , 90, 224-275	42.2	54
164	Elemental composition of urban street dusts and their dissolution characteristics in various aqueous media. <i>Chemosphere</i> , 2009 , 77, 526-33	8.4	54
163	Tuning hydrochar properties for enhanced mesopore development in activated carbon by hydrothermal carbonization. <i>Microporous and Mesoporous Materials</i> , 2015 , 203, 178-185	5.3	53
162	Influence of butanol/diesel blends on particulate emissions of a non-road diesel engine. <i>Fuel</i> , 2014 , 118, 130-136	7.1	53
161	Importance of transboundary transport of biomass burning emissions to regional air quality in Southeast Asia during a high fire event. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 363-373	6.8	53
160	Particulate pollutants in the Brazilian city of São Paulo: 1-year investigation for the chemical composition and source apportionment. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11943-11969	6.8	52
159	Traffic-generated airborne particles in naturally ventilated multi-storey residential buildings of Singapore: Vertical distribution and potential health risks. <i>Building and Environment</i> , 2009 , 44, 1493-1500	6.5	52
158	Assessment of airborne bacteria and fungi in food courts. <i>Building and Environment</i> , 2011 , 46, 2081-2087	6.5	52
157	Determination of water-soluble inorganic and organic species in atmospheric fine particulate matter. <i>Microchemical Journal</i> , 2006 , 82, 49-55	4.8	52
156	Mathematical modeling of rubber tire pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 95, 1-13	6.5	50
155	Characterization of fine particle emissions from incense burning. <i>Building and Environment</i> , 2011 , 46, 1074-1080	6.5	50
154	Experimental studies on removal of microcystin-LR by peat. <i>Journal of Hazardous Materials</i> , 2010 , 184, 417-424	12.8	50
153	Chemical composition and acidity of size-fractionated inorganic aerosols of 2013-14 winter haze in Shanghai and associated health risk of toxic elements. <i>Atmospheric Environment</i> , 2015 , 122, 259-271	5.3	49
152	Enzyme-assisted hydrothermal treatment of food waste for co-production of hydrochar and bio-oil. <i>Bioresource Technology</i> , 2014 , 168, 267-74	11	49
151	Biosynthesis of gold nanoparticles and related cytotoxicity evaluation using A549 cells. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 114, 232-40	7	47

150	A comparative evaluation of passive and active samplers for measurements of gaseous semi-volatile organic compounds in the tropical atmosphere. <i>Atmospheric Environment</i> , 2010 , 44, 884-891	5.3	47
149	Uptake of Ag and TiO ₂ nanoparticles by zebrafish embryos in the presence of other contaminants in the aquatic environment. <i>Water Research</i> , 2014 , 55, 280-91	12.5	46
148	A comparison of thermal behaviors of raw biomass, pyrolytic biochar and their blends with lignite. <i>Bioresource Technology</i> , 2013 , 146, 371-378	11	46
147	Characterization and source identification of airborne trace metals in Singapore. <i>Journal of Environmental Monitoring</i> , 2004 , 6, 813-8		46
146	Effects of oxygenated fuel blends on carbonaceous particulate composition and particle size distributions from a stationary diesel engine. <i>Fuel</i> , 2015 , 141, 1-8	7.1	42
145	Holey graphene frameworks for highly selective post-combustion carbon capture. <i>Scientific Reports</i> , 2016 , 6, 21537	4.9	42
144	Risk assessment of bioaccessible trace elements in smoke haze aerosols versus urban aerosols using simulated lung fluids. <i>Atmospheric Environment</i> , 2016 , 125, 505-511	5.3	42
143	Physicochemical and toxicological characteristics of particulate matter emitted from a non-road diesel engine: comparative evaluation of biodiesel-diesel and butanol-diesel blends. <i>Journal of Hazardous Materials</i> , 2014 , 264, 395-402	12.8	41
142	Human health risk associated with exposure to toxic elements in mainstream and sidestream cigarette smoke. <i>Science of the Total Environment</i> , 2014 , 472, 947-56	10.2	41
141	An algorithm for the kinetics of tire pyrolysis under different heating rates. <i>Journal of Hazardous Materials</i> , 2009 , 166, 126-32	12.8	41
140	Semi-volatile organic compounds (SVOCs) in ambient air and rainwater in a tropical environment: concentrations and temporal and seasonal trends. <i>Chemosphere</i> , 2010 , 78, 742-51	8.4	40
139	Characterization and estimation of human airway deposition of size-resolved particulate-bound trace elements during a recent haze episode in Southeast Asia. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 4265-80	5.1	39
138	Airborne bacteria, fungi, and endotoxin levels in residential microenvironments: a case study. <i>Aerobiologia</i> , 2012 , 28, 375-390	2.4	39
137	Emissions of particulate-bound elements from stationary diesel engine: Characterization and risk assessment. <i>Atmospheric Environment</i> , 2011 , 45, 5273-5281	5.3	39
136	Biochemical response of diverse organs in adult Danio rerio (zebrafish) exposed to sub-lethal concentrations of microcystin-LR and microcystin-RR: a balneation study. <i>Aquatic Toxicology</i> , 2012 , 109, 1-10	5.1	38
135	Physical characteristics of nanoparticles emitted from incense smoke. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 25-32	7.1	38
134	Particulate air pollution from bushfires: human exposure and possible health effects. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2006 , 69, 1895-908	3.2	38
133	Determination of total nitrogen in atmospheric wet and dry deposition samples. <i>Talanta</i> , 2009 , 77, 979-842	4.2	37

132	Impact of biomass burning on ocean water quality in Southeast Asia through atmospheric deposition: field observations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11323-11336	6.8	37
131	Effect of boron doping level on the photocatalytic activity of graphene aerogels. <i>Carbon</i> , 2018 , 128, 237-248	10.4	37
130	Heterogeneous catalyst-assisted thermochemical conversion of food waste biomass into 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2015 , 178, 19-27	11	35
129	Analysis of source regions for smoke events in Singapore for the 2009 El Nino burning season. <i>Atmospheric Environment</i> , 2013 , 78, 219-230	5.3	35
128	Insights into Chemical Coupling among Acidic Gases, Ammonia and Secondary Inorganic Aerosols. <i>Aerosol and Air Quality Research</i> , 2013 , 13, 1282-1296	4.6	35
127	Observations of new aerosol particle formation in a tropical urban atmosphere. <i>Atmospheric Environment</i> , 2013 , 71, 340-351	5.3	34
126	Characteristics of indoor aerosols in residential homes in urban locations: a case study in Singapore. <i>Journal of the Air and Waste Management Association</i> , 2007 , 57, 981-90	2.4	34
125	Evaluation of a novel chitosan polymer-based adsorbent for the removal of chromium (III) in aqueous solutions. <i>Carbohydrate Polymers</i> , 2013 , 92, 2181-6	10.3	33
124	Determination of aldehydes in rainwater using micro-solid-phase extraction and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2010 , 1217, 6366-72	4.5	33
123	Mechanical stability and combustion characteristics of hydrochar/lignite blend pellets. <i>Fuel</i> , 2016 , 164, 59-65	7.1	32
122	Influence of an iron-based fuel-borne catalyst on physicochemical and toxicological characteristics of particulate emissions from a diesel engine. <i>Applied Energy</i> , 2015 , 146, 270-278	10.7	31
121	Assessment of bacterial pathogens in fresh rainwater and airborne particulate matter using Real-Time PCR. <i>Atmospheric Environment</i> , 2012 , 46, 131-139	5.3	31
120	Removal of cyanotoxins from surface water resources using reusable molecularly imprinted polymer adsorbents. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 1841-51	5.1	31
119	A study of nitrogen conversion and polycyclic aromatic hydrocarbon (PAH) emissions during hydrochar/lignite co-pyrolysis. <i>Applied Energy</i> , 2013 , 108, 74-81	10.7	30
118	Effect of oxygenated fuels on physicochemical and toxicological characteristics of diesel particulate emissions. <i>Environmental Science & Technology</i> , 2014 , 48, 14805-13	10.3	30
117	Comparison of physical and chemical properties of ambient aerosols during the 2009 haze and non-haze periods in Southeast Asia. <i>Environmental Geochemistry and Health</i> , 2015 , 37, 831-41	4.7	29
116	Microbial quality and phylogenetic diversity of fresh rainwater and tropical freshwater reservoir. <i>PLoS ONE</i> , 2014 , 9, e100737	3.7	29
115	Effects of oxygenated fuel blends on the composition of size-segregated engine-out diesel particulate emissions and on the toxicity of quasi-ultrafine particles. <i>Fuel</i> , 2018 , 215, 161-170	7.1	29

114	Effects of Cerium Oxide and Ferrocene Nanoparticles Addition As Fuel-Borne Catalysts on Diesel Engine Particulate Emissions: Environmental and Health Implications. <i>Environmental Science & Technology</i> , 2017 , 51, 4248-4258	10.3	28
113	Improvement of fuel qualities of solid fuel biochars by washing treatment. <i>Fuel Processing Technology</i> , 2015 , 134, 130-135	7.2	28
112	Plant derived porous graphene nanosheets for efficient CO2 capture. <i>RSC Advances</i> , 2014 , 4, 44634-44643	4.7	28
111	Rain-aerosol coupling in the tropical atmosphere of Southeast Asia: distribution and scavenging ratios of major ionic species. <i>Journal of Atmospheric Chemistry</i> , 2008 , 60, 205-220	3.2	28
110	An examination of the uptake of lanthanum from aqueous solution by crab shell particles. <i>Chemical Engineering Journal</i> , 2009 , 152, 116-121	14.7	27
109	Influence of air quality on the composition of microbial pathogens in fresh rainwater. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2813-8	4.8	27
108	Characteristics of atmospheric particulate mercury in size-fractionated particles during haze days in Shanghai. <i>Atmospheric Environment</i> , 2016 , 131, 400-408	5.3	26
107	A study of diurnal variations of PM2.5 acidity and related chemical species using a new thermodynamic equilibrium model. <i>Science of the Total Environment</i> , 2013 , 452-453, 286-95	10.2	26
106	Water-Soluble Ions and Trace Metals in Airborne Particles Over Urban Areas of the State of São Paulo, Brazil: Influences of Local Sources and Long Range Transport. <i>Water, Air, and Soil Pollution</i> , 2007 , 186, 63-73	2.6	26
105	New insights into the role of nitrogen-bonding configurations in enhancing the photocatalytic activity of nitrogen-doped graphene aerogels. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 574-583	8.3	26
104	Discrimination of viable from non-viable gram-negative bacterial pathogens in airborne particles using propidium monoazide-assisted qPCR. <i>Science of the Total Environment</i> , 2013 , 449, 237-43	10.2	25
103	Emissions of particulate-bound elements from biodiesel and ultra low sulfur diesel: size distribution and risk assessment. <i>Chemosphere</i> , 2013 , 90, 1005-15	8.4	24
102	Determination of semi-volatile organochlorine compounds in the atmosphere of Singapore using accelerated solvent extraction. <i>Chemosphere</i> , 2009 , 75, 640-648	8.4	24
101	Preparation and characterization of low energy post-pyrolysis oxygenated tire char. <i>Chemical Engineering Journal</i> , 2011 , 170, 194-201	14.7	23
100	Bio-Oxidation and Biocyanidation of Refractory Mineral Ores for Gold Extraction: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1611-1643	11.1	22
99	Insights into lipidomic perturbations in zebrafish tissues upon exposure to microcystin-LR and microcystin-RR. <i>Environmental Science & Technology</i> , 2013 , 47, 14376-84	10.3	22
98	Low-energy and chemical-free activation of pyrolytic tire char and its adsorption characteristics. <i>Journal of the Air and Waste Management Association</i> , 2009 , 59, 747-56	2.4	22
97	Biomass burning-derived airborne particulate matter in Southeast Asia: A critical review. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124760	12.8	22

96	Nitrogen and sulfur codoped graphene aerogels as absorbents and visible light-active photocatalysts for environmental remediation applications. <i>Environmental Pollution</i> , 2019 , 251, 344-353	9.3	21
95	Life Cycle Assessment of Energy and Energy Carriers from Waste Matter [A Review]. <i>Journal of Cleaner Production</i> , 2014 , 79, 18-31	10.3	21
94	Supercritical fluid immobilization of horseradish peroxidase on high surface area mesoporous activated carbon. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 513-518	4.2	20
93	Indoor human exposure to size-fractionated aerosols during the 2015 Southeast Asian smoke haze and assessment of exposure mitigation strategies. <i>Environmental Research Letters</i> , 2017 , 12, 114026	6.2	20
92	Role of Hydrocarbon Degrading Bacteria <i>Serratia marcescens</i> ACE2 and <i>Bacillus cereus</i> ACE4 on Corrosion of Carbon Steel API 5LX. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10041-10048	3.9	20
91	Bioretention systems for stormwater management: Recent advances and future prospects. <i>Journal of Environmental Management</i> , 2021 , 292, 112766	7.9	20
90	Comparative in vitro cytotoxicity assessment of airborne particulate matter emitted from stationary engine fuelled with diesel and waste cooking oil-derived biodiesel. <i>Atmospheric Environment</i> , 2012 , 61, 23-29	5.3	19
89	ANN application for prediction of atmospheric nitrogen deposition to aquatic ecosystems. <i>Marine Pollution Bulletin</i> , 2011 , 62, 1198-206	6.7	19
88	Concomitant uptake of microcystin-LR and -RR by peat under various environmental conditions. <i>Chemical Engineering Journal</i> , 2011 , 172, 754-762	14.7	19
87	Biosorption of As(V) onto the Shells of the Crab (<i>Portunus sanguinolentus</i>): Equilibrium and Kinetic Studies. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3589-3594	3.9	19
86	Air quality changes in cities during the COVID-19 lockdown: A critical review. <i>Atmospheric Research</i> , 2021 , 264, 105823	5.4	19
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