

Luis F O Silva

List of Publications by Year in descending order

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Version: 2024-02-01

206
papers

8,996
citations

20759

60
h-index

58464

82
g-index

207
all docs

207
docs citations

207
times ranked

4851
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in mobility of hazardous elements during coal combustion in Santa Catarina power plant (Brazil). <i>Fuel</i> , 2012, 94, 495-503.	3.4	185
2	Identification of nanominerals and nanoparticles in burning coal waste piles from Portugal. <i>Science of the Total Environment</i> , 2010, 408, 6032-6041.	3.9	170
3	Adsorption of ibuprofen, ketoprofen, and paracetamol onto activated carbon prepared from effluent treatment plant sludge of the beverage industry. <i>Chemosphere</i> , 2021, 262, 128322.	4.2	168
4	Chemical composition and minerals in pyrite ash of an abandoned sulphuric acid production plant. <i>Science of the Total Environment</i> , 2012, 430, 34-47.	3.9	151
5	Exposure to polycyclic aromatic hydrocarbons in atmospheric PM1.0 of urban environments: Carcinogenic and mutagenic respiratory health risk by age groups. <i>Environmental Pollution</i> , 2017, 224, 158-170.	3.7	144
6	Mineralogy and leaching characteristics of beneficiated coal products from Santa Catarina, Brazil. <i>International Journal of Coal Geology</i> , 2012, 94, 314-325.	1.9	124
7	Study of environmental pollution and mineralogical characterization of sediment rivers from Brazilian coal mining acid drainage. <i>Science of the Total Environment</i> , 2013, 447, 169-178.	3.9	123
8	Effects of vegetation on chemical and mineralogical characteristics of soils developed on a decantation bank from a copper mine. <i>Science of the Total Environment</i> , 2012, 421-422, 220-229.	3.9	119
9	Assessment of perfluoroalkyl substances in food items at global scale. <i>Environmental Research</i> , 2014, 135, 181-189.	3.7	116
10	Gaseous emissions and sublimates from the Truman Shepherd coal fire, Floyd County, Kentucky: A re-investigation following attempted mitigation of the fire. <i>International Journal of Coal Geology</i> , 2013, 116-117, 63-74.	1.9	115
11	Time of flight secondary ion mass spectrometry and high-resolution transmission electron microscopy/energy dispersive spectroscopy: A preliminary study of the distribution of Cu ²⁺ and Cu ²⁺ /Pb ²⁺ on a Bt horizon surfaces. <i>Journal of Hazardous Materials</i> , 2011, 195, 422-431.	6.5	113
12	Mineral speciation and fate of some hazardous contaminants in coal waste pile from anthracite mining in Portugal. <i>International Journal of Coal Geology</i> , 2013, 109-110, 15-23.	1.9	111
13	An introductory TEM study of Fe-nanominerals within coal fly ash. <i>Science of the Total Environment</i> , 2009, 407, 4972-4974.	3.9	108
14	A mineralogical and geochemical study of three Brazilian coal cleaning rejects: Demonstration of electron beam applications. <i>International Journal of Coal Geology</i> , 2014, 130, 33-52.	1.9	108
15	Direct identification of hazardous elements in ultra-fine and nanominerals from coal fly ash produced during diesel co-firing. <i>Science of the Total Environment</i> , 2014, 470-471, 444-452.	3.9	106
16	Leaching of potential hazardous elements of coal cleaning rejects. <i>Environmental Monitoring and Assessment</i> , 2011, 175, 109-126.	1.3	102
17	Brazilian coal mining residues and sulphide oxidation by Fenton's reaction: An accelerated weathering procedure to evaluate possible environmental impact. <i>Journal of Hazardous Materials</i> , 2011, 186, 516-525.	6.5	102
18	A preliminary study of coal mining drainage and environmental health in the Santa Catarina region, Brazil. <i>Environmental Geochemistry and Health</i> , 2011, 33, 55-65.	1.8	101

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19	Ambient nanoparticles/nanominerals and hazardous elements from coal combustion activity: Implications on energy challenges and health hazards. <i>Geoscience Frontiers</i> , 2018, 9, 863-875.	4.3	98
20	Nanominerals and ultrafine particles in sublimes from the Ruth Mullins coal fire, Perry County, Eastern Kentucky, USA. <i>International Journal of Coal Geology</i> , 2011, 85, 237-245.	1.9	96
21	Nanominerals and ultrafine particles from coal fires from Santa Catarina, South Brazil. <i>International Journal of Coal Geology</i> , 2014, 122, 50-60.	1.9	95
22	Evaluation of the potential of volcanic rock waste from southern Brazil as a natural soil fertilizer. <i>Journal of Cleaner Production</i> , 2017, 142, 2700-2706.	4.6	94
23	Nanoparticles from construction wastes: A problem to health and the environment. <i>Journal of Cleaner Production</i> , 2019, 219, 236-243.	4.6	93
24	Assessment of nitro-polycyclic aromatic hydrocarbons in PM1 near an area of heavy-duty traffic. <i>Science of the Total Environment</i> , 2014, 479-480, 57-65.	3.9	92
25	Extensive FE-SEM/EDS, HR-TEM/EDS and ToF-SIMS studies of micron- to nano-particles in anthracite fly ash. <i>Science of the Total Environment</i> , 2013, 452-453, 98-107.	3.9	91
26	Geochemistry and nano-mineralogy of two medium-sulfur northeast Indian coals. <i>International Journal of Coal Geology</i> , 2014, 121, 26-34.	1.9	91
27	Fate of hazardous elements in agricultural soils surrounding a coal power plant complex from Santa Catarina (Brazil). <i>Science of the Total Environment</i> , 2015, 508, 374-382.	3.9	91
28	Geochemistry and nano-mineralogy of feed coals, mine overburden, and coal-derived fly ashes from Assam (North-east India): a multi-faceted analytical approach. <i>International Journal of Coal Geology</i> , 2015, 137, 19-37.	1.9	90
29	Nanomineralogy in the real world: A perspective on nanoparticles in the environmental impacts of coal fire. <i>Chemosphere</i> , 2016, 147, 439-443.	4.2	90
30	The occurrence of hazardous volatile elements and nanoparticles in Bulgarian coal fly ashes and the effect on human health exposure. <i>Science of the Total Environment</i> , 2012, 416, 513-526.	3.9	89
31	Geochemistry of ultra-fine and nano-compounds in coal gasification ashes: A synoptic view. <i>Science of the Total Environment</i> , 2013, 456-457, 95-103.	3.9	88
32	Physicochemical characterization and sources of the thoracic fraction of road dust in a Latin American megacity. <i>Science of the Total Environment</i> , 2019, 652, 434-446.	3.9	88
33	Liquid chromatography-atmospheric pressure photoionization-Orbitrap analysis of fullerene aggregates on surface soils and river sediments from Santa Catarina (Brazil). <i>Science of the Total Environment</i> , 2015, 505, 172-179.	3.9	85
34	Nano-mineralogy of suspended sediment during the beginning of coal rejects spill. <i>Chemosphere</i> , 2016, 145, 142-147.	4.2	85
35	Characterization of Santa Catarina (Brazil) coal with respect to human health and environmental concerns. <i>Environmental Geochemistry and Health</i> , 2009, 31, 475-485.	1.8	82
36	Nanominerals and nanoparticles in feed coal and bottom ash: implications for human health effects. <i>Environmental Monitoring and Assessment</i> , 2011, 174, 187-197.	1.3	82

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37	Environmental assessment and nano-mineralogical characterization of coal, overburden and sediment from Indian coal mining acid drainage. <i>Geoscience Frontiers</i> , 2017, 8, 1285-1297.	4.3	82
38	Pollution from uncontrolled coal fires: Continuous gaseous emissions and nanoparticles from coal mines. <i>Journal of Cleaner Production</i> , 2019, 215, 1140-1148.	4.6	82
39	Multianalytical approaches to the characterisation of minerals associated with coals and the diagnosis of their potential risk by using combined instrumental microspectroscopic techniques and thermodynamic speciation. <i>Fuel</i> , 2012, 94, 52-63.	3.4	81
40	Intratracheal instillation of coal and coal fly ash particles in mice induces DNA damage and translocation of metals to extrapulmonary tissues. <i>Science of the Total Environment</i> , 2018, 625, 589-599.	3.9	81
41	Partitioning of mineralogical and inorganic geochemical components of coals from Santa Catarina, Brazil, by industrial beneficiation processes. <i>International Journal of Coal Geology</i> , 2013, 116-117, 75-92.	1.9	80
42	Observations and Assessment of Fly Ashes from High-Sulfur Bituminous Coals and Blends of High-Sulfur Bituminous and Subbituminous Coals: Environmental Processes Recorded at the Macro- and Nanometer Scale. <i>Energy & Fuels</i> , 2015, 29, 7168-7177.	2.5	79
43	High-performance removal of 2,4-dichlorophenoxyacetic acid herbicide in water using activated carbon derived from Queen palm fruit endocarp (<i>Syagrus romanzoffiana</i>). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104911.	3.3	79
44	Nano-mineralogical investigation of coal and fly ashes from coal-based captive power plant (India): An introduction of occupational health hazards. <i>Science of the Total Environment</i> , 2014, 468-469, 1128-1137.	3.9	78
45	FTIR analysis and evaluation of carcinogenic and mutagenic risks of nitro-polycyclic aromatic hydrocarbons in PM 1.0. <i>Science of the Total Environment</i> , 2016, 541, 1151-1160.	3.9	78
46	A preliminary evaluation of volcanic rock powder for application in agriculture as soil a remineralizer. <i>Science of the Total Environment</i> , 2015, 512-513, 371-380.	3.9	77
47	Hazardous elements and amorphous nanoparticles in historical estuary coal mining area. <i>Geoscience Frontiers</i> , 2019, 10, 927-939.	4.3	77
48	Coal cleaning residues and Fe-minerals implications. <i>Environmental Monitoring and Assessment</i> , 2011, 172, 367-378.	1.3	76
49	In vitro genotoxic effect of secondary minerals crystallized in rocks from coal mine drainage. <i>Journal of Hazardous Materials</i> , 2018, 346, 263-272.	6.5	75
50	Soil interaction and fractionation of added cadmium in some Galician soils. <i>Microchemical Journal</i> , 2013, 110, 681-690.	2.3	74
51	Quantitative trace analysis of fullerenes in river sediment from Spain and soils from Saudi Arabia. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5915-5923.	1.9	73
52	Chemical evaluation of by-products of the grape industry as potential agricultural fertilizers. <i>Journal of Cleaner Production</i> , 2019, 208, 297-306.	4.6	73
53	Adsorption of ketoprofen and paracetamol and treatment of a synthetic mixture by novel porous carbon derived from <i>Butia capitata</i> endocarp. <i>Journal of Molecular Liquids</i> , 2021, 339, 117184.	2.3	73
54	A review on the environmental impact of phosphogypsum and potential health impacts through the release of nanoparticles. <i>Chemosphere</i> , 2022, 286, 131513.	4.2	70

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55	Effective removal of sulfur components from Brazilian power-coals by ultrasonication (40 kHz) in presence of H ₂ O ₂ . <i>Ultrasonics Sonochemistry</i> , 2016, 32, 147-157.	3.8	69
56	Nanominerals and potentially hazardous elements from coal cleaning rejects of abandoned mines: Environmental impact and risk assessment. <i>Chemosphere</i> , 2017, 169, 725-733.	4.2	68
57	Acid mine drainage in an Indian high-sulfur coal mining area: Cytotoxicity assay and remediation study. <i>Journal of Hazardous Materials</i> , 2020, 389, 121851.	6.5	66
58	Obese rats are more vulnerable to inflammation, genotoxicity and oxidative stress induced by coal dust inhalation than non-obese rats. <i>Ecotoxicology and Environmental Safety</i> , 2018, 165, 44-51.	2.9	65
59	Formation of carbon quantum dots and graphene nanosheets from different abundant carbonaceous materials. <i>Diamond and Related Materials</i> , 2020, 106, 107813.	1.8	65
60	Cytotoxicity and genotoxicity induced by coal and coal fly ash particles samples in V79 cells. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24019-24031.	2.7	63
61	Complex nanominerals and ultrafine particles assemblages in phosphogypsum of the fertilizer industry and implications on human exposure. <i>Science of the Total Environment</i> , 2010, 408, 5117-5122.	3.9	62
62	Applied investigation on the interaction of hazardous elements binding on ultrafine and nanoparticles in Chinese anthracite-derived fly ash. <i>Science of the Total Environment</i> , 2012, 419, 250-264.	3.9	62
63	Geochemistry of carbon nanotube assemblages in coal fire soot, Ruth Mullins fire, Perry County, Kentucky. <i>International Journal of Coal Geology</i> , 2012, 94, 206-213.	1.9	59
64	Potential utilization for the evaluation of particulate and gaseous pollutants at an urban site near a major highway. <i>Science of the Total Environment</i> , 2016, 543, 161-170.	3.9	59
65	Multifaceted processes controlling the distribution of hazardous compounds in the spontaneous combustion of coal and the effect of these compounds on human health. <i>Environmental Research</i> , 2018, 160, 562-567.	3.7	58
66	Evidence of mercury sequestration by carbon nanotubes and nanominerals present in agricultural soils from a coal fired power plant exhaust. <i>Journal of Hazardous Materials</i> , 2019, 378, 120747.	6.5	57
67	The mobilization of hazardous elements after a tropical storm event in a polluted estuary. <i>Science of the Total Environment</i> , 2016, 565, 721-729.	3.9	56
68	River dynamics and nanoparticles formation: A comprehensive study on the nanoparticle geochemistry of suspended sediments in the Magdalena River, Caribbean Industrial Area. <i>Journal of Cleaner Production</i> , 2019, 213, 819-824.	4.6	56
69	Transforming shrub waste into a high-efficiency adsorbent: Application of <i>Physalis peruviana</i> chalice treated with strong acid to remove the 2,4-dichlorophenoxyacetic acid herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104574.	3.3	56
70	Nanominerals assemblages and hazardous elements assessment in phosphogypsum from an abandoned phosphate fertilizer industry. <i>Chemosphere</i> , 2020, 256, 127138.	4.2	56
71	The properties of the nano-minerals and hazardous elements: Potential environmental impacts of Brazilian coal waste fire. <i>Science of the Total Environment</i> , 2016, 544, 892-900.	3.9	54
72	Development of highly porous activated carbon from <i>Jacaranda mimosifolia</i> seed pods for remarkable removal of aqueous-phase ketoprofen. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105676.	3.3	54

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73	Study of coal cleaning rejects by FIB and sample preparation for HR-TEM: Mineral surface chemistry and nanoparticle-aggregation control for health studies. <i>Journal of Cleaner Production</i> , 2018, 188, 662-669.	4.6	53
74	Nanoparticulate mineral matter from basalt dust wastes. <i>Chemosphere</i> , 2016, 144, 2013-2017.	4.2	52
75	Environmental evaluation and nano-mineralogical study of fresh and unsaturated weathered coal fly ashes. <i>Science of the Total Environment</i> , 2019, 663, 177-188.	3.9	51
76	Synthesis of Cyclic β -Amino Acids for Foldamers and Peptide Nanotubes. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3477-3493.	1.2	49
77	Modification, adsorption, and geochemistry processes on altered minerals and amorphous phases on the nanometer scale: examples from copper mining refuse, Touro, Spain. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6535-6545.	2.7	49
78	An eco-friendly and low-cost strategy for groundwater defluorination: Adsorption of fluoride onto calcinated sludge. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104546.	3.3	49
79	Chemical characterization, nano-particle mineralogy and particle size distribution of basalt dust wastes. <i>Science of the Total Environment</i> , 2016, 539, 560-565.	3.9	48
80	Exposure to nanometric pollutants in primary schools: Environmental implications. <i>Urban Climate</i> , 2019, 27, 412-419.	2.4	48
81	Adsorbents for Glyphosate removal in contaminated waters: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1525-1543.	8.3	48
82	Preparation of activated carbon from the residues of the mushroom (<i>Agaricus bisporus</i>) production chain for the adsorption of the 2,4-dichlorophenoxyacetic herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106843.	3.3	47
83	Coal emissions adverse human health effects associated with ultrafine/nano-particles role and resultant engineering controls. <i>Environmental Research</i> , 2017, 158, 450-455.	3.7	44
84	Nanoparticles in fossil and mineral fuel sectors and their impact on environment and human health: A review and perspective. <i>Gondwana Research</i> , 2021, 92, 184-201.	3.0	44
85	Atmospheric particle number concentration and size distribution in a traffic-impacted area. <i>Atmospheric Pollution Research</i> , 2015, 6, 877-885.	1.8	41
86	Chemical and nano-mineralogical study for determining potential uses of legal Colombian gold mine sludge: Experimental evidence. <i>Chemosphere</i> , 2018, 191, 1048-1055.	4.2	41
87	Hazardous thoracic and ultrafine particles from road dust in a Caribbean industrial city. <i>Urban Climate</i> , 2020, 33, 100655.	2.4	41
88	Comparative carbon emission assessments of recycled and natural aggregate concrete: Environmental influence of cement content. <i>Geoscience Frontiers</i> , 2021, 12, 101235.	4.3	41
89	Effect of firing temperature on the photocatalytic activity of anatase ceramic glazes. <i>Powder Technology</i> , 2015, 276, 60-65.	2.1	40
90	Are children playgrounds safe play areas? Inorganic analysis and lead isotope ratios for contamination assessment in recreational (Brazilian) parks. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24333-24345.	2.7	40

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91	Vanadium and Nickel Speciation in Pulverized Coal and Petroleum Coke Co-combustion. <i>Energy & Fuels</i> , 2013, 27, 1194-1203.	2.5	39
92	Low Abundances but High Growth Rates of Coastal Heterotrophic Bacteria in the Red Sea. <i>Frontiers in Microbiology</i> , 2018, 9, 3244.	1.5	39
93	Copper decreases associative learning and memory in <i>Drosophila melanogaster</i> . <i>Science of the Total Environment</i> , 2020, 710, 135306.	3.9	39
94	Multiple relationships between aerosol and COVID-19: A framework for global studies. <i>Gondwana Research</i> , 2021, 93, 243-251.	3.0	39
95	Composition and porosity study of original and restoration materials included in a coastal historical construction. <i>Construction and Building Materials</i> , 2018, 178, 384-392.	3.2	38
96	Obesity associated with coal ash inhalation triggers systemic inflammation and oxidative damage in the hippocampus of rats. <i>Food and Chemical Toxicology</i> , 2019, 133, 110766.	1.8	38
97	Copper distribution in surface and subsurface soil horizons. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10997-11008.	2.7	36
98	Application of andesite rock as a clean source of fertilizer for eucalyptus crop: Evidence of sustainability. <i>Journal of Cleaner Production</i> , 2020, 256, 120432.	4.6	35
99	Environmental assessment of viticulture waste valorisation through composting as a biofertilisation strategy for cereal and fruit crops. <i>Environmental Pollution</i> , 2020, 264, 114794.	3.7	35
100	Leaching of rare earth elements from phosphogypsum. <i>Chemosphere</i> , 2022, 301, 134661.	4.2	35
101	The role of airborne particles and environmental considerations in the transmission of SARS-CoV-2. <i>Geoscience Frontiers</i> , 2021, 12, 101189.	4.3	33
102	Mineralogy and Leaching Characteristics of Coal Ash from a Major Brazilian Power Plant. <i>Coal Combustion and Gasification Products</i> , 2010, 2, 51-65.	1.0	33
103	In-situ analytical study of bricks exposed to marine environment using hand-held X-ray fluorescence spectrometry and related laboratory techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 146, 28-35.	1.5	32
104	Multiple hazardous elements in nanoparticulate matter from a Caribbean industrialized atmosphere. <i>Chemosphere</i> , 2020, 239, 124776.	4.2	32
105	Trapping of Ag ⁺ , Cu ²⁺ , and Co ²⁺ by faujasite zeolite Y: New interpretations of the adsorption mechanism via DFT and statistical modeling investigation. <i>Chemical Engineering Journal</i> , 2021, 420, 127712.	6.6	32
106	Volcanic emissions and atmospheric pollution: A study of nanoparticles. <i>Geoscience Frontiers</i> , 2021, 12, 746-755.	4.3	32
107	Water quality assessment of the Tubarão River through chemical analysis and biomarkers in the Neotropical fish <i>Geophagus brasiliensis</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 9145-60.	2.7	30
108	A review of the toxicology presence and removal of ketoprofen through adsorption technology. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107798.	3.3	29

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109	Air quality and PM10-associated poly-aromatic hydrocarbons around the railway traffic area: statistical and air mass trajectory approaches. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2039-2053.	1.8	28
110	Occurrence of carbon nanotubes and implication for the siting of elements in selected anthracites. <i>Fuel</i> , 2020, 263, 116740.	3.4	28
111	A comprehensive study of biofilms growing on the built heritage of a Caribbean industrial city in correlation with construction materials. <i>International Biodeterioration and Biodegradation</i> , 2020, 147, 104874.	1.9	28
112	Treatment of Effluent from the Agate Dyeing Industry Using Photodegradation and Electrodialysis Processes. <i>Separation Science and Technology</i> , 2015, 50, 142-147.	1.3	27
113	Nanomineralogy of mortars and ceramics from the Forum of Caesar and Nerva (Rome, Italy): The protagonist of black crusts produced on historic buildings. <i>Journal of Cleaner Production</i> , 2021, 278, 123982.	4.6	27
114	Hazardous elements in the soil of urban cemeteries; constructive solutions aimed at sustainability. <i>Chemosphere</i> , 2021, 262, 128248.	4.2	26
115	Advances made in removing paraquat herbicide by adsorption technology: A review. <i>Journal of Water Process Engineering</i> , 2022, 49, 102988.	2.6	26
116	The impact of air pollution on the rate of degradation of the fortress of Florianópolis Island, Brazil. <i>Chemosphere</i> , 2020, 251, 126838.	4.2	25
117	Cluster analysis of urban ultrafine particles size distributions. <i>Atmospheric Pollution Research</i> , 2019, 10, 45-52.	1.8	24
118	Application of araçá fruit husks (<i>Psidium cattleianum</i>) in the preparation of activated carbon with FeCl ₃ for atrazine herbicide adsorption. <i>Chemical Engineering Research and Design</i> , 2022, 180, 67-78.	2.7	24
119	Efficient removal of naproxen from aqueous solution by highly porous activated carbon produced from Grapetree (<i>Plinia cauliflora</i>) fruit peels. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106820.	3.3	24
120	Evaluation of the role of biocolonizations in the conservation state of Machu Picchu (Peru): The Sacred Rock. <i>Science of the Total Environment</i> , 2019, 654, 1379-1388.	3.9	23
121	Release kinetics of multi-nutrients from volcanic rock mining by-products: Evidences for their use as a soil remineralizer. <i>Journal of Cleaner Production</i> , 2021, 279, 123668.	4.6	23
122	COVID-19 mortality and exposure to airborne PM2.5: A lag time correlation. <i>Science of the Total Environment</i> , 2022, 806, 151286.	3.9	23
123	Fire resistance performance of concrete-PVC panels with polyvinyl chloride (PVC) stay in place (SIP) formwork. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4094-4107.	2.6	22
124	Metal-enriched nanoparticles and black carbon: A perspective from the Brazil railway system air pollution. <i>Geoscience Frontiers</i> , 2021, 12, 101129.	4.3	22
125	Transforming agricultural waste into adsorbent: application of <i>Fagopyrum esculentum</i> wheat husks treated with H ₂ SO ₄ to adsorption of the 2,4-D herbicide. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106872.	3.3	22
126	Preparation of activated carbons from fruit residues for the removal of naproxen (NPX): Analytical interpretation via statistical physical model. <i>Journal of Molecular Liquids</i> , 2022, 356, 119021.	2.3	22

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127	Evaluation of Soil Re-mineralizer from By-Product of Volcanic Rock Mining: Experimental Proof Using Black Oats and Maize Crops. <i>Natural Resources Research</i> , 2020, 29, 1583-1600.	2.2	21
128	Composite carbon materials from winery composted waste for the treatment of effluents contaminated with ketoprofen and 2-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105421.	3.3	21
129	An analysis of vehicular exhaust derived nanoparticles and historical Belgium fortress building interfaces. <i>Geoscience Frontiers</i> , 2020, 11, 2053-2060.	4.3	21
130	Atmospheric contaminations and bad conservation effects in Roman mosaics and mortars of Italica. <i>Journal of Cleaner Production</i> , 2020, 248, 119250.	4.6	20
131	Understanding the mobility of potential nutrients in rock mining by-products: An opportunity for more sustainable agriculture and mining. <i>Science of the Total Environment</i> , 2020, 710, 136240.	3.9	19
132	Weekly variations of viruses and heterotrophic nanoflagellates and their potential impact on bacterioplankton in shallow waters of the central Red Sea. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	19
133	Residual peel of pitaya fruit (<i>Hylocereus undatus</i>) as a precursor to obtaining an efficient carbon-based adsorbent for the removal of metanil yellow dye from water. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107006.	3.3	19
134	Spatio-temporal variations of sulfur dioxide concentrations in industrial and urban area via a new statistical approach. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 801-813.	1.5	18
135	Rare Earth Elements and carbon nanotubes in coal mine around spontaneous combustions. <i>Journal of Cleaner Production</i> , 2020, 253, 120068.	4.6	18
136	Atmospheric nanocompounds on Lanzarote Island: Vehicular exhaust and igneous geologic formation interactions. <i>Chemosphere</i> , 2020, 254, 126822.	4.2	18
137	Experimental method for investigating the impact of the addition of polymer fibers on drying shrinkage and cracking of concretes. <i>Structural Concrete</i> , 2019, 20, 1064-1075.	1.5	17
138	Historic building materials from Alhambra: Nanoparticles and global climate change effects. <i>Journal of Cleaner Production</i> , 2019, 232, 751-758.	4.6	16
139	Geochemical fractionation of hazardous elements in fresh and drilled weathered South African coal fly ashes. <i>Environmental Geochemistry and Health</i> , 2020, 42, 2771-2788.	1.8	16
140	Geochemical study of submicron particulate matter (PM1) in a metropolitan area. <i>Geoscience Frontiers</i> , 2022, 13, 101130.	4.3	16
141	Titanium nanoparticles in sedimented dust aggregates from urban children's parks around coal ashes wastes. <i>Fuel</i> , 2021, 285, 119162.	3.4	15
142	A review on Pb-bearing nanoparticles, particulate matter and colloids released from mining and smelting activities. <i>Gondwana Research</i> , 2022, 110, 330-346.	3.0	15
143	Nanoparticles as vectors of other contaminants in estuarine suspended sediments: Natural and real conditions. <i>Marine Pollution Bulletin</i> , 2021, 168, 112429.	2.3	15
144	Air pollutants and their degradation of a historic building in the largest metropolitan area in Latin America. <i>Chemosphere</i> , 2021, 277, 130286.	4.2	15

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145	Morphology, composition and mixing state of individual airborne particles: Effects of the 2017 Action Plan in Beijing, China. <i>Journal of Cleaner Production</i> , 2021, 329, 129748.	4.6	15
146	Soil contamination in Colombian playgrounds: effects of vehicles, construction, and traffic. <i>Environmental Science and Pollution Research</i> , 2021, 28, 166-176.	2.7	14
147	Heterotrophic bacterioplankton responses in coral- and algae-dominated Red Sea reefs show they might benefit from future regime shift. <i>Science of the Total Environment</i> , 2021, 751, 141628.	3.9	14
148	Indoor-outdoor relationships of airborne nanoparticles, BC and VOCs at rural and urban preschools. <i>Environmental Pollution</i> , 2021, 268, 115751.	3.7	14
149	Biophysical matter in a marine estuary identified by the Sentinel-3B OLCI satellite and the presence of terrestrial iron (Fe) nanoparticles. <i>Marine Pollution Bulletin</i> , 2021, 173, 112925.	2.3	14
150	Effects of atmospheric pollutants on human health and deterioration of medieval historical architecture (North Africa, Tunisia). <i>Urban Climate</i> , 2022, 41, 101046.	2.4	14
151	Determination of volume and distribution of pores of concretes according to different exposure classes through 3D microtomography and mercury intrusion porosimetry. <i>Structural Concrete</i> , 2018, 19, 1419-1427.	1.5	13
152	Identification of hazardous nanoparticles present in the Caribbean Sea for the allocation of future preservation projects. <i>Marine Pollution Bulletin</i> , 2021, 168, 112425.	2.3	13
153	Particulate matter geochemistry of a highly industrialized region in the Caribbean: Basis for future toxicological studies. <i>Geoscience Frontiers</i> , 2022, 13, 101115.	4.3	13
154	Conversion of <i>Erythrina speciosa</i> pods to porous adsorbent for Ibuprofen removal. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108070.	3.3	13
155	Nanometric particles of high economic value in coal fire region: Opportunities for social improvement. <i>Journal of Cleaner Production</i> , 2020, 256, 120480.	4.6	12
156	Construction and Demolition Waste Recycling through Conventional Jig, Air Jig, and Sensor-Based Sorting: A Comparison. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 904.	0.8	12
157	Environmental and human health risks associated with exposure to hazardous elements present in urban dust from Barranquilla, Colombian Caribbean. <i>Journal of Environmental Quality</i> , 2021, 50, 350-363.	1.0	11
158	Nanomineralogy of evaporative precipitation of efflorescent compounds from coal mine drainage. <i>Geoscience Frontiers</i> , 2021, 12, 101003.	4.3	10
159	Implications of iron nanoparticles in spontaneous coal combustion and the effects on climatic variables. <i>Chemosphere</i> , 2020, 254, 126814.	4.2	10
160	Environmental aspects of the depreciation of the culturally significant Wall of Cartagena de Indias “Colombia. <i>Chemosphere</i> , 2021, 265, 129119.	4.2	10
161	Spatial Distribution and Chemical Composition of Road Dust in Two High-Altitude Latin American Cities. <i>Atmosphere</i> , 2021, 12, 1109.	1.0	10
162	Evaluation of factors influencing road dust loadings in a Latin American urban center. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 268-280.	0.9	9

#	ARTICLE	IF	CITATIONS
163	Diel dynamics of dissolved organic matter and heterotrophic prokaryotes reveal enhanced growth at the ocean's mesopelagic fish layer during daytime. <i>Science of the Total Environment</i> , 2022, 804, 150098.	3.9	9
164	Adsorption performance of Food Red 17 dye using an eco-friendly material based on <i>Luffa cylindrica</i> and chitosan. <i>Journal of Molecular Liquids</i> , 2022, 349, 118144.	2.3	9
165	Oxidative chemical beneficiation of low-quality coals under low-energy ultrasonic and microwave irradiation: An environmental-friendly approach. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104830.	3.3	8
166	Dispersion of hazardous nanoparticles on beaches around phosphogypsum factories. <i>Marine Pollution Bulletin</i> , 2021, 169, 112493.	2.3	8
167	Rare earth elements study of Cretaceous coals from Benue Trough basin, Nigeria: Modes of occurrence for greater sustainability of mining. <i>Fuel</i> , 2021, 304, 121468.	3.4	8
168	Systems chemo-biology analysis of DNA damage response and cell cycle effects induced by coal exposure. <i>Genetics and Molecular Biology</i> , 2020, 43, e20190134.	0.6	8
169	Zinc Speciation in Power Plant Burning Mixtures of Coal and Tires. <i>Coal Combustion and Gasification Products</i> , 2011, 3, 41-50.	1.0	8
170	Analysis of the influence of thickness on fire reaction performance in polyisocyanurate core sandwich panels. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9487-9497.	2.6	7
171	Sustainable Release of Macronutrients to Black Oat and Maize Crops from Organically-Altered Dacite Rock Powder. <i>Natural Resources Research</i> , 2021, 30, 1941-1953.	2.2	7
172	Nutrient pollution enhances productivity and framework dissolution in algae- but not in coral-dominated reef communities. <i>Marine Pollution Bulletin</i> , 2021, 168, 112444.	2.3	7
173	The impact of air pollutants on the degradation of two historic buildings in Bordeaux, France. <i>Urban Climate</i> , 2021, 39, 100927.	2.4	7
174	Metals in the soil of urban cemeteries in Carazinho (South Brazil) in view of the increase in deaths from COVID-19: projects for cemeteries to mitigate environmental impacts. <i>Environment, Development and Sustainability</i> , 2022, 24, 10728-10751.	2.7	7
175	Identification of mercury and nanoparticles in roots with different oxidation states of an abandoned coal mine. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24380-24386.	2.7	6
176	Multianalytical approach of stay-in-place polyvinyl chloride formwork concrete exposed to high temperatures. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5045-5055.	2.6	6
177	Nanoparticles and interfaces with toxic elements in fluvial suspended sediment. <i>Marine Pollution Bulletin</i> , 2021, 168, 112405.	2.3	6
178	Synthesis of geopolymers from fly and bottom ashes of a thermoelectrical power plant for metallic ions adsorption. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2699-2706.	2.7	6
179	Number concentrations and size distributions of nanoparticles during the use of hand tools in refurbishment activities. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	5
180	Destoning the Moatize Coal Seam, Mozambique, by Dry Jigging. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 771.	0.8	5

#	ARTICLE	IF	CITATIONS
181	A tool for realistic study of nanoparticulate coal rejects. <i>Journal of Cleaner Production</i> , 2021, 278, 121916.	4.6	5
182	Volcanic rock powder residues as precursors for the synthesis of adsorbents and potential application in the removal of dyes and metals from water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25685-25693.	2.7	5
183	Application of biowaste generated by the production chain of pitaya fruit (<i>Hylocereus undatus</i>) as an efficient adsorbent for removal of naproxen in water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 39754-39767.	2.7	5
184	Hazardous elements present in coal nanoparticles in a Caribbean port region in Colombia. <i>Science of the Total Environment</i> , 2022, , 156363.	3.9	5
185	The use of Mössbauer spectroscopy in environmental research. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.2	4
186	A realistic study of 3D composition of carbon nanotubes and carbonaceous nanocompounds from different soils around coal power plant. <i>Chemosphere</i> , 2019, 237, 124534.	4.2	4
187	Woody residues of the grape production chain as an alternative precursor of high porous activated carbon with remarkable performance for naproxen uptake from water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16988-17000.	2.7	4
188	Surface chemistry of atmospheric nanoparticles during a haze episode in Beijing by TOF-SIMS. <i>Gondwana Research</i> , 2022, , .	3.0	4
189	Pyrolysis of grape bagasse to produce char for Cu(II) adsorption: a circular economy perspective. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3947-3964.	2.9	4
190	Evaluating sulfates and nitrates as enemies of the recent constructions: Spectroscopic and thermodynamical study. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 436-446.	1.2	3
191	Nanoparticles from evaporite materials in Colombian coal mine drainages. <i>International Journal of Coal Geology</i> , 2020, 230, 103588.	1.9	3
192	A three-dimensional nanoscale study in selected coal mine drainage. <i>Chemosphere</i> , 2020, 248, 125946.	4.2	3
193	Characterization of Demolished Concretes with Three Different Strengths for Recycling as Coarse Aggregate. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 803.	0.8	3
194	Comparative assessment of corrosion of concrete reinforced with unprotected steel and hot-dip galvanized steel. <i>Revista De La Construcción</i> , 2017, 16, 238-248.	0.5	3
195	Measured data of <i>Drosophila melanogaster</i> (Diptera Drosophilidae) development and learning and memory behaviour after copper exposition. <i>Data in Brief</i> , 2020, 28, 104986.	0.5	2
196	Portable dehumidifiers as an original matrix for the study of inhalable nanoparticles in school. <i>Chemosphere</i> , 2021, 262, 127295.	4.2	2
197	The role of roots plants and soil characteristics in coal mining areas: Geochemical and nanomineralogy information still without details. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106539.	3.3	2
198	One step acid modification of the residual bark from <i>Campomanesia guazumifolia</i> using H ₂ SO ₄ and application in the removal of 2,4-dichlorophenoxyacetic from aqueous solution. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2021, 56, 995-1006.	0.7	2

#	ARTICLE	IF	CITATIONS
199	Heterotrophic Bacterioplankton Growth and Physiological Properties in Red Sea Tropical Shallow Ecosystems With Different Dissolved Organic Matter Sources. <i>Frontiers in Microbiology</i> , 2021, 12, 784325.	1.5	2
200	Soils and spoils: mineralogy and geochemistry of mining and processing wastes from lead and zinc mining at the Gratz Mine, Owen County, Kentucky. <i>Journal of Soils and Sediments</i> , 0, , 1.	1.5	2
201	Polishing of painting process effluents through adsorption with biochar from winemaking residues. <i>Environmental Science and Pollution Research</i> , 2022, 29, 66348-66358.	2.7	2
202	Geochemical, mineralogical, and petrological characteristics of the Cretaceous coal from the middle Benue Trough Basin, Nigeria: Implication for coal depositional environments. <i>Energy Geoscience</i> , 2022, 3, 300-313.	1.3	2
203	Treatment of effluent from re-refined lubricating oils by combined processes of coagulation, flocculation, and Fenton process. <i>Environmental Quality Management</i> , 2018, 27, 135-141.	1.0	1
204	High-Frequency Variability of Bacterioplankton in Response to Environmental Drivers in Red Sea Coastal Waters. <i>Frontiers in Microbiology</i> , 2022, 13, 780530.	1.5	1
205	Adsorption kinetics and equilibrium of Ni ²⁺ , Cu ²⁺ , Co ²⁺ , and Ag ⁺ on geopolymers derived from ashes: application to treat effluents from the E-Coat printing process. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70158-70166.	2.7	1
206	Nanominerals and Ultrafine Particles from Brazilian Coal Fires. , 2015, , 37-55.		0