

Giovanni Cagnetta

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,308
citations

218381

26
h-index

214527

47
g-index

50
all docs

50
docs citations

50
times ranked

2271
citing authors

#	ARTICLE	IF	CITATIONS
1	Regeneration of chitosan-based adsorbents used in heavy metal adsorption: A review. <i>Separation and Purification Technology</i> , 2019, 224, 373-387.	3.9	314
2	Degradation of Ofloxacin by Perylene Diimide Supramolecular Nanofiber Sunlight-Driven Photocatalysis. <i>Environmental Science & Technology</i> , 2019, 53, 1564-1575.	4.6	235
3	Mechanochemical destruction of halogenated organic pollutants: A critical review. <i>Journal of Hazardous Materials</i> , 2016, 313, 85-102.	6.5	156
4	Efficient degradation of carbamazepine by organo-montmorillonite supported nCoFe ₂ O ₄ -activated peroxymonosulfate process. <i>Chemical Engineering Journal</i> , 2019, 368, 824-836.	6.6	98
5	Typical pharmaceuticals in major WWTPs in Beijing, China: Occurrence, load pattern and calculation reliability. <i>Water Research</i> , 2018, 140, 291-300.	5.3	89
6	Wastewater-based epidemiology in Beijing, China: Prevalence of antibiotic use in flu season and association of pharmaceuticals and personal care products with socioeconomic characteristics. <i>Environment International</i> , 2019, 125, 152-160.	4.8	84
7	Nanoscale zero valent iron-activated persulfate coupled with Fenton oxidation process for typical pharmaceuticals and personal care products degradation. <i>Separation and Purification Technology</i> , 2020, 239, 116534.	3.9	73
8	Removal of Fâ€“53B as PFOS alternative in chrome plating wastewater by UV/Sulfite reduction. <i>Water Research</i> , 2019, 163, 114907.	5.3	66
9	A comprehensive kinetic model for mechanochemical destruction of persistent organic pollutants. <i>Chemical Engineering Journal</i> , 2016, 291, 30-38.	6.6	65
10	A mini-review on mechanochemical treatment of contaminated soil: From laboratory to large-scale. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 723-771.	6.6	60
11	Degradation of PFOA Substitute: GenX (HFPOâ€“DA Ammonium Salt): Oxidation with UV/Persulfate or Reduction with UV/Sulfite?. <i>Environmental Science & Technology</i> , 2018, 52, 11728-11734.	4.6	59
12	Mechanochemical destruction of perfluorinated pollutants and mechanosynthesis of lanthanum oxyfluoride: A Waste-to-Materials process. <i>Chemical Engineering Journal</i> , 2017, 316, 1078-1090.	6.6	55
13	First assessment on degradability of sodium p-perfluorous nonenoxybenzene sulfonate (OBS), a high volume alternative to perfluorooctane sulfonate in fire-fighting foams and oil production agents in China. <i>RSC Advances</i> , 2017, 7, 46948-46957.	1.7	53
14	Synthesis and Regeneration of A MXene-Based Pollutant Adsorbent by Mechanochemical Methods. <i>Molecules</i> , 2019, 24, 2478.	1.7	53
15	Per- and Polyfluoroalkyl Substances in Representative Fluorocarbon Surfactants Used in Chinese Film-Forming Foams: Levels, Profile Shift, and Environmental Implications. <i>Environmental Science and Technology Letters</i> , 2019, 6, 259-264.	3.9	50
16	Mechanochemical pre-treatment for viable recycling of plastic waste containing haloorganics. <i>Waste Management</i> , 2018, 75, 181-186.	3.7	49
17	Defect engineered oxides for enhanced mechanochemical destruction of halogenated organic pollutants. <i>Chemosphere</i> , 2017, 184, 879-883.	4.2	47
18	Cross-linked chitosan/zeolite as a fixed-bed column for organic micropollutants removal from aqueous solution, optimization with RSM and artificial neural network. <i>Journal of Environmental Management</i> , 2019, 250, 109434.	3.8	45

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19	Preparation of porous graphene oxide by chemically intercalating a rigid molecule for enhanced removal of typical pharmaceuticals. <i>Carbon</i> , 2017, 119, 101-109.	5.4	42
20	Mechanochemical mineralization of 'every persistent' fluorocarbon surfactants ' 6:2 fluorotelomer sulfonate (6:2FTS) as an example. <i>Scientific Reports</i> , 2017, 7, 17180.	1.6	42
21	Degradation of hexafluoropropylene oxide oligomer acids as PFOA alternatives in simulated nanofiltration concentrate: Effect of molecular structure. <i>Chemical Engineering Journal</i> , 2020, 382, 122866.	6.6	39
22	Mechanochemically synthesized S-ZVI _{bm} composites for the activation of persulfate in the pH-independent degradation of atrazine: Effects of sulfur dose and ball-milling conditions. <i>Chemical Engineering Journal</i> , 2021, 423, 129789.	6.6	35
23	Dioxins reformation and destruction in secondary copper smelting fly ash under ball milling. <i>Scientific Reports</i> , 2016, 6, 22925.	1.6	33
24	Enhanced adsorption of potassium nitrate with potassium cation on H ₃ PO ₄ modified kaolinite and nitrate anion into Mg-Al layered double hydroxide. <i>Applied Clay Science</i> , 2018, 154, 10-16.	2.6	33
25	Effect of beading parameters on cross-linked chitosan adsorptive properties. <i>Reactive and Functional Polymers</i> , 2019, 144, 104354.	2.0	31
26	Effect of high energy ball milling on organic pollutant adsorption properties of chitosan. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 543-549.	3.6	31
27	Nickel ion removal from aqueous solutions through the adsorption process: a review. <i>Reviews in Chemical Engineering</i> , 2021, 37, 755-778.	2.3	30
28	Mechanochemical degradation of perfluorohexane sulfonate: Synergistic effect of ferrate(VI) and zero-valent iron. <i>Environmental Pollution</i> , 2020, 264, 114789.	3.7	29
29	Poly- and perfluoroalkyl substances in a drinking water treatment plant in the Yangtze River Delta of China: Temporal trend, removal and human health risk. <i>Science of the Total Environment</i> , 2019, 696, 133949.	3.9	26
30	Occurrence and variations of pharmaceuticals and personal-care products in rural water bodies: A case study of the Taige Canal (2018'2019). <i>Science of the Total Environment</i> , 2021, 762, 143138.	3.9	26
31	Effective Adsorption of Reactive Black 5 onto Hybrid Hexadecylamine Impregnated Chitosan-Powdered Activated Carbon Beads. <i>Water (Switzerland)</i> , 2020, 12, 2242.	1.2	25
32	Mechanochemical conversion of brominated POPs into useful oxybromides: a greener approach. <i>Scientific Reports</i> , 2016, 6, 28394.	1.6	22
33	Formation of brominated and chlorinated dioxins and its prevention during a pilot test of mechanochemical treatment of PCB and PBDE contaminated soil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20072-20081.	2.7	21
34	Removal of HFPO-DA (GenX) from aqueous solutions: A mini-review. <i>Chemical Engineering Journal</i> , 2021, 424, 130266.	6.6	21
35	Wastewater surveillance for 168 pharmaceuticals and metabolites in a WWTP: Occurrence, temporal variations and feasibility of metabolic biomarkers for intake estimation. <i>Water Research</i> , 2022, 216, 118321.	5.3	21
36	Characteristics of pharmaceutically active compounds in surface water in Beijing, China: Occurrence, spatial distribution and biennial variation from 2013 to 2017. <i>Environmental Pollution</i> , 2020, 264, 114753.	3.7	18

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37	Mechanochemical synthesis of catalysts and reagents for water decontamination: Recent advances and perspective. <i>Science of the Total Environment</i> , 2022, 825, 153992.	3.9	17
38	The Biomec process for mechanochemically assisted biodegradation of PCBs in marine sediments. <i>Journal of Soils and Sediments</i> , 2015, 15, 240-248.	1.5	15
39	Solvent-free mechanochemical mild oxidation method to enhance adsorption properties of chitosan. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	15
40	Mechanochemical enhancement of the natural attenuation capacity of soils using two organophosphate biocides as models. <i>Journal of Hazardous Materials</i> , 2018, 360, 71-81.	6.5	14
41	Ultrasound-Assisted Preparation of Chitosan/Nano-Activated Carbon Composite Beads Aminated with (3-Aminopropyl)Triethoxysilane for Adsorption of Acetaminophen from Aqueous Solutions. <i>Polymers</i> , 2019, 11, 1701.	2.0	14
42	Tailoring the properties of a zero-valent iron-based composite by mechanochemistry for nitrophenols degradation in wastewaters. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2916-2927.	1.2	12
43	Role of hydrogenated moiety in redox treatability of 6:2 fluorotelomer sulfonic acid in chrome mist suppressant solution. <i>Journal of Hazardous Materials</i> , 2021, 408, 124875.	6.5	12
44	Augmented hydrogen production by gasification of ball milled polyethylene with Ca(OH) ₂ and Ni(OH) ₂ . <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	9
45	Mechanochemically oxidized chitosan-based adsorbents with outstanding Penicillin G adsorption capacity. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105454.	3.3	8
46	Improved fractal kinetic model to predict mechanochemical destruction rate of organic pollutants. <i>Chemosphere</i> , 2021, 284, 131307.	4.2	7
47	Confined-space strategy for anchoring catalytic nanoparticles on Si-OH by ball milling for enhanced O ₃ /PMS oxidation of ciprofloxacin. <i>Chemical Engineering Journal</i> , 2022, 429, 132318.	6.6	5
48	Nonthermal Mechanochemical Destruction of POPs. , 0, , .		0