

Francesco Di Natale

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,218
citations

186265

28
h-index

223800

46
g-index

60
all docs

60
docs citations

60
times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of platinum from diesel catalysts by combined use of H ₂ O ₂ /HCl leaching and adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107730.	6.7	13
2	Short-sea shipping contributions to particle concentration in coastal areas: Impact and mitigation. <i>Transportation Research, Part D: Transport and Environment</i> , 2022, 109, 103342.	6.8	3
3	Wet electrostatic scrubbing for flue gas treatment. <i>Fuel</i> , 2022, 325, 124888.	6.4	8
4	Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1462.	2.6	17
5	A Novel Approach to Reduce the Environmental Footprint of Maritime Shipping. <i>Journal of Marine Science and Application</i> , 2021, 20, 229-247.	1.7	13
6	Selective Gold and Palladium Adsorption from Standard Aqueous Solutions. <i>Processes</i> , 2021, 9, 1282.	2.8	4
7	Dataset of wet desulphurization scrubbing in a column packed with Mellapak 250.X. <i>Data in Brief</i> , 2020, 33, 106383.	1.0	7
8	Characterization of mass transfer coefficients and pressure drops for packed towers with Mellapak 250.X. <i>Chemical Engineering Research and Design</i> , 2020, 161, 340-356.	5.6	21
9	Wet oxidation scrubbing (WOS) for flue-gas desulphurization using sodium chlorite seawater solutions. <i>Fuel</i> , 2020, 277, 118055.	6.4	32
10	Absorption of sulphur dioxide by electrosprayed droplets. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1989-1997.	1.7	9
11	Adsorption of heavy metals on silica-supported hydrophilic carbonaceous nanoparticles (SHNPs). <i>Journal of Hazardous Materials</i> , 2020, 393, 122374.	12.4	42
12	Seawater desulphurization scrubbing in spray and packed columns for a 4.35 MW marine diesel engine. <i>Chemical Engineering Research and Design</i> , 2019, 148, 56-67.	5.6	33
13	Experimental evidences on the chemi-electro-hydrodynamic absorption of sulphur dioxide in electrified water sprays. <i>Chemical Engineering Research and Design</i> , 2019, 146, 249-262.	5.6	11
14	Post-combustion CO ₂ capture by RVPSA in a large-scale steam reforming plant. <i>Journal of CO₂ Utilization</i> , 2019, 32, 53-65.	6.8	18
15	Capture of bacterial bioaerosol with a wet electrostatic scrubber. <i>Journal of Electrostatics</i> , 2018, 93, 58-68.	1.9	12
16	Utilization of alumina-supported K ₂ CO ₃ as CO ₂ -selective sorbent: A promising strategy to mitigate the carbon footprint of the maritime sector. <i>Journal of CO₂ Utilization</i> , 2018, 24, 139-148.	6.8	14
17	Condensational growth assisted Venturi scrubber for soot particles emissions control. <i>Fuel Processing Technology</i> , 2018, 175, 76-89.	7.2	21
18	Experimental and modelling analysis of seawater scrubbers for sulphur dioxide removal from flue-gas. <i>Fuel</i> , 2018, 214, 254-263.	6.4	68

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19	Sacrificial photocatalysis: removal of nitrate and hydrogen production by nano-copper-loaded P25 titania. A kinetic and ecotoxicological assessment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5898-5907.	5.3	12
20	Colloidal Carbon-Based Nanoparticles as Heavy Metal Adsorbent in Aqueous Solution: Cadmium Removal as a Case Study. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	8
21	Primary atomization of electrified water sprays. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1781-1788.	1.7	10
22	Removal of fine and ultrafine particles by means of a condensational growth assisted bubble column. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1661-1670.	1.7	3
23	NO Abatement Using Microwave Micro Plasma Generated With Granular Activated Carbon. <i>IEEE Transactions on Industry Applications</i> , 2017, 53, 5845-5851.	4.9	5
24	Removal of nitrate and simultaneous hydrogen generation through photocatalytic reforming of glycerol over in situ -prepared zero-valent nano copper/P25. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 539-549.	20.2	76
25	DBD plasma for NO _x adsorption and desorption-reduction using GAC for the marine emissions control. , 2017, , .		1
26	An experimental procedure to estimate tube erosion rates in bubbling fluidised beds. <i>Powder Technology</i> , 2016, 287, 96-107.	4.2	8
27	Effect of gas temperature on the capture of charged particles by oppositely charged water droplets. <i>Aerosol Science and Technology</i> , 2016, 50, 110-117.	3.1	8
28	Simultaneous removal of heavy metals from field-polluted soils and treatment of soil washing effluents through combined adsorption and artificial sunlight-driven photocatalytic processes. <i>Chemical Engineering Journal</i> , 2016, 283, 1484-1493.	12.7	66
29	Modeling of single and competitive adsorption of cadmium and zinc onto activated carbon. <i>Adsorption</i> , 2015, 21, 611-621.	3.0	40
30	Particulate matter in marine diesel engines exhausts: Emissions and control strategies. <i>Transportation Research, Part D: Transport and Environment</i> , 2015, 40, 166-191.	6.8	88
31	Capture of fine and ultrafine particles in a wet electrostatic scrubber. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 349-356.	6.7	60
32	Equilibrium and dynamic study on hexavalent chromium adsorption onto activated carbon. <i>Journal of Hazardous Materials</i> , 2015, 281, 47-55.	12.4	143
33	Experimental analysis on the capture of submicron particles (PM0.5) by wet electrostatic scrubbing. <i>Chemical Engineering Science</i> , 2014, 106, 222-230.	3.8	33
34	Submicron particles removal by charged sprays. Fundamentals. <i>Journal of Electrostatics</i> , 2013, 71, 345-350.	1.9	52
35	Gasification of coal combustion ash for its reuse as adsorbent. <i>Fuel</i> , 2013, 106, 147-151.	6.4	16
36	A lab-scale system to study submicron particles removal in wet electrostatic scrubbers. <i>Chemical Engineering Science</i> , 2013, 97, 176-185.	3.8	30

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37	Desorption of arsenic from exhaust activated carbons used for water purification. Journal of Hazardous Materials, 2013, 260, 451-458.	12.4	47
38	Heating and cooling of hazelnut paste in alternate blades scraped surface heat exchangers. Journal of Food Engineering, 2013, 115, 182-189.	5.2	11
39	Gasification of Granulated Scrap Tires for the Production of Syngas and a Low-Cost Adsorbent for Cd(II) Removal from Wastewaters. Industrial & Engineering Chemistry Research, 2013, 52, 12154-12160.	3.7	49
40	Local heat transfer coefficients and superficial bed porosity of a horizontal cylinder in bubbling fluidized beds of geldart B particles. , 2012, , .		0
41	A critical comparison between local heat and mass transfer coefficients of horizontal cylinders immersed in bubbling fluidised beds. International Journal of Heat and Mass Transfer, 2012, 55, 8178-8183.	4.8	13
42	Heterogeneous condensation of submicron particles in a growth tube. Chemical Engineering Science, 2012, 74, 124-134.	3.8	72
43	Reuse of Coal Combustion Ash as Sorbent: The Effect of Gasification Treatments. Combustion Science and Technology, 2012, 184, 956-965.	2.3	8
44	Steam- and carbon dioxide-gasification of coal combustion ash for liquid phase cadmium removal by adsorption. Chemical Engineering Journal, 2012, 207-208, 66-71.	12.7	26
45	A new arrangement of blades in scraped surface heat exchangers for food pastes. Journal of Food Engineering, 2012, 108, 143-149.	5.2	17
46	Mercury adsorption on granular activated carbon in aqueous solutions containing nitrates and chlorides. Journal of Hazardous Materials, 2011, 192, 1842-1850.	12.4	86
47	Cadmium adsorption by coal combustion ashes-based sorbents—Relationship between sorbent properties and adsorption capacity. Journal of Hazardous Materials, 2011, 187, 371-378.	12.4	49
48	Heat transfer and void fraction profiles around a horizontal cylinder immersed in a bubbling fluidised bed. International Journal of Heat and Mass Transfer, 2010, 53, 3525-3532.	4.8	33
49	Wet electrostatic scrubbers for the abatement of submicronic particulate. Chemical Engineering Journal, 2010, 165, 35-45.	12.7	99
50	Arsenate removal from synthetic wastewater by adsorption onto fly ash. Desalination, 2010, 263, 58-63.	8.2	40
51	Surface-to-bed heat transfer in fluidised beds of fine particles. Powder Technology, 2009, 195, 135-142.	4.2	26
52	Adsorbents selection for aflatoxins removal in bovine milks. Journal of Food Engineering, 2009, 95, 186-191.	5.2	33
53	A descriptive model for metallic ions adsorption from aqueous solutions onto activated carbons. Journal of Hazardous Materials, 2009, 169, 360-369.	12.4	53
54	A single particle model for surface-to-bed heat transfer in fluidized beds. Powder Technology, 2008, 187, 68-78.	4.2	39

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55	Groundwater protection from cadmium contamination by permeable reactive barriers. Journal of Hazardous Materials, 2008, 160, 428-434.	12.4	68
56	Experimental and modelling analysis of As(V) ions adsorption on granular activated carbon. Water Research, 2008, 42, 2007-2016.	11.3	82
57	Recovery of Tungstate from Aqueous Solutions by Ion Exchange. Industrial & Engineering Chemistry Research, 2007, 46, 6777-6782.	3.7	28
58	Surface-to-bed heat transfer in fluidised beds: Effect of surface shape. Powder Technology, 2007, 174, 75-81.	4.2	27
59	Removal of chromium ions from aqueous solutions by adsorption on activated carbon and char. Journal of Hazardous Materials, 2007, 145, 381-390.	12.4	143
60	Capture of mercury ions by natural and industrial materials. Journal of Hazardous Materials, 2006, 132, 220-225.	12.4	164