

# 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	Capture of mercury ions by natural and industrial materials. <i>Journal of Hazardous Materials</i> , 2006, 132, 220-225.	12.4	164
2	Removal of chromium ions form aqueous solutions by adsorption on activated carbon and char. <i>Journal of Hazardous Materials</i> , 2007, 145, 381-390.	12.4	143
3	Equilibrium and dynamic study on hexavalent chromium adsorption onto activated carbon. <i>Journal of Hazardous Materials</i> , 2015, 281, 47-55.	12.4	143
4	Wet electrostatic scrubbers for the abatement of submicronic particulate. <i>Chemical Engineering Journal</i> , 2010, 165, 35-45.	12.7	99
5	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
6	Mercury adsorption on granular activated carbon in aqueous solutions containing nitrates and chlorides. <i>Journal of Hazardous Materials</i> , 2011, 192, 1842-1850.	12.4	86
7	Experimental and modelling analysis of As(V) ions adsorption on granular activated carbon. <i>Water Research</i> , 2008, 42, 2007-2016.	11.3	82
8	Removal of nitrate and simultaneous hydrogen generation through photocatalytic reforming of glycerol over $\text{in situ}$ -prepared zero-valent nano copper/P25. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 539-549.	20.2	76
9	Heterogeneous condensation of submicron particles in a growth tube. <i>Chemical Engineering Science</i> , 2012, 74, 124-134.	3.8	72
10	Groundwater protection from cadmium contamination by permeable reactive barriers. <i>Journal of Hazardous Materials</i> , 2008, 160, 428-434.	12.4	68
11	Experimental and modelling analysis of seawater scrubbers for sulphur dioxide removal from flue-gas. <i>Fuel</i> , 2018, 214, 254-263.	6.4	68
12	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
13	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
14	A descriptive model for metallic ions adsorption from aqueous solutions onto activated carbons. <i>Journal of Hazardous Materials</i> , 2009, 169, 360-369.	12.4	53
15	Submicron particles removal by charged sprays. <i>Fundamentals. Journal of Electrostatics</i> , 2013, 71, 345-350.	1.9	52
16	Cadmium adsorption by coal combustion ashes-based sorbents—Relationship between sorbent properties and adsorption capacity. <i>Journal of Hazardous Materials</i> , 2011, 187, 371-378.	12.4	49
17	Gasification of Granulated Scrap Tires for the Production of Syngas and a Low-Cost Adsorbent for Cd(II) Removal from Wastewaters. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 12154-12160.	3.7	49
18	Desorption of arsenic from exhaust activated carbons used for water purification. <i>Journal of Hazardous Materials</i> , 2013, 260, 451-458.	12.4	47

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19	Adsorption of heavy metals on silica-supported hydrophilic carbonaceous nanoparticles (SHNPs). Journal of Hazardous Materials, 2020, 393, 122374.	12.4	42
20	Arsenate removal from synthetic wastewater by adsorption onto fly ash. Desalination, 2010, 263, 58-63.	8.2	40
21	Modeling of single and competitive adsorption of cadmium and zinc onto activated carbon. Adsorption, 2015, 21, 611-621.	3.0	40
22	A single particle model for surface-to-bed heat transfer in fluidized beds. Powder Technology, 2008, 187, 68-78.	4.2	39
23	Adsorbents selection for aflatoxins removal in bovine milks. Journal of Food Engineering, 2009, 95, 186-191.	5.2	33
24	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
25	Experimental analysis on the capture of submicron particles (PM0.5) by wet electrostatic scrubbing. Chemical Engineering Science, 2014, 106, 222-230.	3.8	33
26	Seawater desulphurization scrubbing in spray and packed columns for a 4.35 MW marine diesel engine. Chemical Engineering Research and Design, 2019, 148, 56-67.	5.6	33
27	Wet oxidation scrubbing (WOS) for flue-gas desulphurization using sodium chlorite seawater solutions. Fuel, 2020, 277, 118055.	6.4	32
28	A lab-scale system to study submicron particles removal in wet electrostatic scrubbers. Chemical Engineering Science, 2013, 97, 176-185.	3.8	30
29	Recovery of Tungstate from Aqueous Solutions by Ion Exchange. Industrial & Engineering Chemistry Research, 2007, 46, 6777-6782.	3.7	28
30	Surface-to-bed heat transfer in fluidised beds: Effect of surface shape. Powder Technology, 2007, 174, 75-81.	4.2	27
31	Surface-to-bed heat transfer in fluidised beds of fine particles. Powder Technology, 2009, 195, 135-142.	4.2	26
32	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
33	Condensational growth assisted Venturi scrubber for soot particles emissions control. Fuel Processing Technology, 2018, 175, 76-89.	7.2	21
34	Characterization of mass transfer coefficients and pressure drops for packed towers with Mellapak 250.X. Chemical Engineering Research and Design, 2020, 161, 340-356.	5.6	21
35	Post-combustion CO <sub>2</sub> capture by RVPSA in a large-scale steam reforming plant. Journal of CO <sub>2</sub> Utilization, 2019, 32, 53-65.	6.8	18
36	A new arrangement of blades in scraped surface heat exchangers for food pastes. Journal of Food Engineering, 2012, 108, 143-149.	5.2	17

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37	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
38	Gasification of coal combustion ash for its reuse as adsorbent. <i>Fuel</i> , 2013, 106, 147-151.	6.4	16
39	Utilization of alumina-supported K <sub>2</sub> CO <sub>3</sub> as CO <sub>2</sub> -selective sorbent: A promising strategy to mitigate the carbon footprint of the maritime sector. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 24, 139-148.	6.8	14
40	A critical comparison between local heat and mass transfer coefficients of horizontal cylinders immersed in bubbling fluidised beds. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 8178-8183.	4.8	13
41	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
42	Recovery of platinum from diesel catalysts by combined use of H <sub>2</sub> O <sub>2</sub> /HCl leaching and adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107730.	6.7	13
43	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
44	Capture of bacterial bioaerosol with a wet electrostatic scrubber. <i>Journal of Electrostatics</i> , 2018, 93, 58-68.	1.9	12
45	Heating and cooling of hazelnut paste in alternate blades scraped surface heat exchangers. <i>Journal of Food Engineering</i> , 2013, 115, 182-189.	5.2	11
46	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
47	Primary atomization of electrified water sprays. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1781-1788.	1.7	10
48	Absorption of sulphur dioxide by electrosprayed droplets. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1989-1997.	1.7	9
49	Reuse of Coal Combustion Ash as Sorbent: The Effect of Gasification Treatments. <i>Combustion Science and Technology</i> , 2012, 184, 956-965.	2.3	8
50	An experimental procedure to estimate tube erosion rates in bubbling fluidised beds. <i>Powder Technology</i> , 2016, 287, 96-107.	4.2	8
51	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
52	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
53	Wet electrostatic scrubbing for flue gas treatment. <i>Fuel</i> , 2022, 325, 124888.	6.4	8
54	Dataset of wet desulphurization scrubbing in a column packed with Mellapak 250.X. <i>Data in Brief</i> , 2020, 33, 106383.	1.0	7

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55	NO Abatement Using Microwave Micro Plasma Generated With Granular Activated Carbon. IEEE Transactions on Industry Applications, 2017, 53, 5845-5851.	4.9	5
56	Selective Gold and Palladium Adsorption from Standard Aqueous Solutions. Processes, 2021, 9, 1282.	2.8	4
57	Removal of fine and ultrafine particles by means of a condensational growth assisted bubble column. Canadian Journal of Chemical Engineering, 2017, 95, 1661-1670.	1.7	3
58	Short-sea shipping contributions to particle concentration in coastal areas: Impact and mitigation. Transportation Research, Part D: Transport and Environment, 2022, 109, 103342.	6.8	3
59	DBD plasma for NOx adsorption and desorption-reduction using GAC for the marine emissions control. , 2017, , .		1
60	Local heat transfer coefficients and superficial bed porosity of a horizontal cylinder in bubbling fluidized beds of geldart B particles. , 2012, , .		0