

# Margarida J Quina

## List of Publications by Year in descending order

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102  
papers

3,173  
citations

201385

27  
h-index

174990

52  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment and use of air pollution control residues from MSW incineration: An overview. <i>Waste Management</i> , 2008, 28, 2097-2121.	3.7	315
2	Removal of chromium from electroplating industry effluents by ion exchange resins. <i>Journal of Hazardous Materials</i> , 2007, 144, 634-638.	6.5	254
3	Technologies for the management of MSW incineration ashes from gas cleaning: New perspectives on recovery of secondary raw materials and circular economy. <i>Science of the Total Environment</i> , 2018, 635, 526-542.	3.9	212
4	The influence of pH on the leaching behaviour of inorganic components from municipal solid waste APC residues. <i>Waste Management</i> , 2009, 29, 2483-2493.	3.7	167
5	Legal situation and current practice of waste incineration bottom ash utilisation in Europe. <i>Waste Management</i> , 2020, 102, 868-883.	3.7	120
6	Application of hydrophobic silica based aerogels and xerogels for removal of toxic organic compounds from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 134-140.	5.0	109
7	Applications of industrial eggshell as a valuable anthropogenic resource. <i>Resources, Conservation and Recycling</i> , 2017, 123, 176-186.	5.3	93
8	Chemical stabilization of air pollution control residues from municipal solid waste incineration. <i>Journal of Hazardous Materials</i> , 2010, 179, 382-392.	6.5	80
9	Characterization of air pollution control residues produced in a municipal solid waste incinerator in Portugal. <i>Journal of Hazardous Materials</i> , 2008, 152, 853-869.	6.5	74
10	Treatment improvement of urban landfill leachates by Fenton-like process using ZVI. <i>Chemical Engineering Journal</i> , 2012, 192, 219-225.	6.6	73
11	Chemical Stabilization of Municipal Solid Waste Incineration Fly Ash without Any Commercial Chemicals: First Pilot-Plant Scaling Up. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5561-5569.	3.2	65
12	Phytotoxicity assessment of olive mill solid wastes and the influence of phenolic compounds. <i>Chemosphere</i> , 2017, 185, 258-267.	4.2	62
13	Silica-based aerogels as adsorbents for phenol-derivative compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 260-269.	2.3	60
14	Nanofiltration process for separating Cr(III) from acid solutions: Experimental and modelling analysis. <i>Desalination</i> , 2010, 254, 80-89.	4.0	59
15	Percolation and batch leaching tests to assess release of inorganic pollutants from municipal solid waste incinerator residues. <i>Waste Management</i> , 2011, 31, 236-245.	3.7	57
16	Evaluation of chelating ion-exchange resins for separating Cr(III) from industrial effluents. <i>Journal of Hazardous Materials</i> , 2009, 169, 516-523.	6.5	52
17	Recycling of air pollution control residues from municipal solid waste incineration into lightweight aggregates. <i>Waste Management</i> , 2014, 34, 430-438.	3.7	52
18	Recovery of phosphate from aqueous solutions using calcined eggshell as an eco-friendly adsorbent. <i>Journal of Environmental Management</i> , 2019, 238, 451-459.	3.8	51

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19	Immobilisation of lead and zinc in contaminated soil using compost derived from industrial eggshell. <i>Journal of Environmental Management</i> , 2015, 164, 137-145.	3.8	50
20	Comparative analysis of methods and models for predicting biochemical methane potential of various organic substrates. <i>Science of the Total Environment</i> , 2019, 649, 1599-1608.	3.9	50
21	Rapid sintering of weathered municipal solid waste incinerator bottom ash and rice husk for lightweight aggregate manufacturing and product properties. <i>Journal of Cleaner Production</i> , 2019, 232, 713-721.	4.6	49
22	LABVIRTUAL – A virtual platform to teach chemical processes. <i>Education for Chemical Engineers</i> , 2009, 4, e9-e19.	2.8	37
23	Experimental and mathematical modelling of Cr(III) sorption in fixed-bed column using modified pine bark. <i>Journal of Cleaner Production</i> , 2018, 183, 272-281.	4.6	36
24	Detoxification of Olive Mill Wastewaters by Fenton's Process. <i>Catalysts</i> , 2018, 8, 662.	1.6	36
25	From wastewater to fertilizer products: Alternative paths to mitigate phosphorus demand in European countries. <i>Chemosphere</i> , 2021, 284, 131258.	4.2	36
26	Stabilisation/solidification of APC residues from MSW incineration with hydraulic binders and chemical additives. <i>Journal of Hazardous Materials</i> , 2014, 264, 107-116.	6.5	33
27	Management of waste lubricant oil in Europe: A circular economy approach. <i>Critical Reviews in Environmental Science and Technology</i> , 0, , 1-36.	6.6	31
28	Compatibility analysis of municipal solid waste incineration residues and clay for producing lightweight aggregates. <i>Applied Clay Science</i> , 2014, 102, 71-80.	2.6	30
29	Inorganic Waste Generated in Kraft Pulp Mills: The Transition from Landfill to Industrial Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2317.	1.3	29
30	Equilibrium and kinetic studies on removal of Cu <sup>2+</sup> and Cr <sup>3+</sup> from aqueous solutions using a chelating resin. <i>Chemical Engineering Journal</i> , 2011, 172, 277-286.	6.6	28
31	Thermal Runaway Conditions of a Partially Diluted Catalytic Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 4615-4623.	1.8	27
32	Evaluation of Eggshell-Rich Compost as Biosorbent for Removal of Pb(II) from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	27
33	An overview of waste lubricant oil management system: Physicochemical characterization contribution for its improvement. <i>Journal of Cleaner Production</i> , 2017, 150, 301-308.	4.6	24
34	Assessment and Prediction of Lubricant Oil Properties Using Infrared Spectroscopy and Advanced Predictive Analytics. <i>Energy &amp; Fuels</i> , 2017, 31, 179-187.	2.5	24
35	Regeneration of waste lubricant oil with distinct properties by extraction-flocculation using green solvents. <i>Journal of Cleaner Production</i> , 2018, 200, 578-587.	4.6	22
36	Assessment of Agroforestry Residues: Their Potential within the Biorefinery Context. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17154-17165.	3.2	22

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37	Catalytic Efficiency of Red Mud for the Degradation of Olive Mill Wastewater through Heterogeneous Fenton <sup>TM</sup> 's Process. <i>Water (Switzerland)</i> , 2019, 11, 1183.	1.2	22
38	Screening of waste materials as adjuvants for drying sewage sludge based on environmental, technical and economic criteria. <i>Journal of Cleaner Production</i> , 2020, 259, 120927.	4.6	22
39	Start-up and wrong-way behavior in a tubular reactor: dilution effect of the catalytic bed. <i>Chemical Engineering Science</i> , 2000, 55, 3885-3897.	1.9	20
40	Supported TiO <sub>2</sub> in Ceramic Materials for the Photocatalytic Degradation of Contaminants of Emerging Concern in Liquid Effluents: A Review. <i>Molecules</i> , 2021, 26, 5363.	1.7	19
41	Micellar enhanced ultrafiltration for the valorization of phenolic compounds and polysaccharides from winery wastewaters. <i>Journal of Water Process Engineering</i> , 2020, 38, 101565.	2.6	18
42	Valorisation of water treatment sludge for lightweight aggregate production. <i>Construction and Building Materials</i> , 2021, 269, 121335.	3.2	18
43	Co-composting of eggshell waste in self-heating reactors: Monitoring and end product quality. <i>Bioresource Technology</i> , 2013, 148, 293-301.	4.8	17
44	Uptake of trivalent chromium from aqueous solutions by xanthate pine bark: Characterization, batch and column studies. <i>Chemical Engineering Research and Design</i> , 2019, 121, 374-386.	2.7	17
45	Effect of Thermal Drying and Chemical Treatments with Wastes on Microbiological Contamination Indicators in Sewage Sludge. <i>Microorganisms</i> , 2020, 8, 376.	1.6	17
46	Studies on the Chemical Stabilisation of Digestate from Mechanically Recovered Organic Fraction of Municipal Solid Waste. <i>Waste and Biomass Valorization</i> , 2015, 6, 711-721.	1.8	16
47	Single and binary sorption of Cr(III) and Ni(II) onto modified pine bark. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28039-28049.	2.7	16
48	Novel adsorbents based on eggshell functionalized with iron oxyhydroxide for phosphorus removal from liquid effluents. <i>Journal of Water Process Engineering</i> , 2020, 36, 101248.	2.6	16
49	Insights into the Sorption Mechanisms of Cr(III) by Chemically Modified Pine Bark. <i>Chemical Engineering and Technology</i> , 2018, 41, 1378-1389.	0.9	15
50	Kraft pulp mill dregs and grits as permeable reactive barrier for removal of copper and sulfate in acid mine drainage. <i>Scientific Reports</i> , 2020, 10, 4083.	1.6	15
51	Solvent Extraction Studies for Separation of Zn(II) and Mn(II) from Spent Batteries Leach Solutions. <i>Separation Science and Technology</i> , 2014, 49, 398-409.	1.3	14
52	Analysis of potentially toxic metal constraints to apply sewage sludge in Portuguese agricultural soils. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26000-26014.	2.7	14
53	Model comparison and sensitivity analysis for a fixed bed reactor with two catalytic zones. <i>Chemical Engineering Journal</i> , 1999, 75, 149-159.	6.6	13
54	Prediction of free air space in initial composting mixtures by a statistical design approach. <i>Journal of Environmental Management</i> , 2013, 128, 75-82.	3.8	13

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55	Feasibility Study on Windrow Co-composting to Recycle Industrial Eggshell Waste. <i>Waste and Biomass Valorization</i> , 2014, 5, 87-95.	1.8	12
56	Assessment of co-composting process with high load of an inorganic industrial waste. <i>Waste Management</i> , 2017, 59, 80-89.	3.7	12
57	New Methodology of Solvent Selection for the Regeneration of Waste Lubricant Oil Using Greenness Criteria. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6820-6828.	3.2	12
58	Development and characterization of pine bark with enhanced capacity for uptaking Cr(III) from aqueous solutions. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 855-864.	0.9	12
59	Electrochemical reduction of hematite-based ceramics in alkaline medium: Challenges in electrode design. <i>Electrochimica Acta</i> , 2019, 327, 135060.	2.6	12
60	Integrated management of residues from tomato production: Recovery of value-added compounds and biogas production in the biorefinery context. <i>Journal of Environmental Management</i> , 2021, 299, 113505.	3.8	12
61	Measurement and correlation of thermophysical properties of waste lubricant oil. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 137-146.	1.0	11
62	Beneficial use of lime mud from kraft pulp industry for drying and microbiological decontamination of sewage sludge. <i>Journal of Environmental Management</i> , 2021, 296, 113255.	3.8	11
63	Screening of low-cost materials as heterogeneous catalysts for olive mill wastewater Fenton <sup>TM</sup> s peroxidation. <i>Energy Reports</i> , 2020, 6, 161-167.	2.5	11
64	Opportunities and Barriers for Valorizing Waste Incineration Bottom Ash: Iberian Countries as a Case Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9690.	1.3	11
65	A national inventory to estimate release of polychlorinated dibenzo-p-dioxins and dibenzofurans in Portugal. <i>Chemosphere</i> , 2011, 85, 1749-1758.	4.2	10
66	Environmental impact of APC residues from municipal solid waste incineration: Reuse assessment based on soil and surface water protection criteria. <i>Waste Management</i> , 2011, 31, 1984-1991.	3.7	10
67	Characterization of Ecotoxicological Effects of Green Liquor Dregs from the Pulp and Paper Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14707-14715.	3.2	10
68	Direct processing of cellular ceramics from a single red mud precursor. <i>Ceramics International</i> , 2020, 46, 16700-16707.	2.3	10
69	Towards improved adsorption of phenolic compounds by surface chemistry tailoring of silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 409-421.	1.1	9
70	Effect of Different Radiation Sources and Noble Metal Doped onto TiO <sub>2</sub> for Contaminants of Emerging Concern Removal. <i>Water (Switzerland)</i> , 2019, 11, 894.	1.2	9
71	What waste management can learn from the traditional mining sector: Towards an integrated assessment and reporting of anthropogenic resources. <i>Waste Management</i> , 2020, 113, 154-156.	3.7	9
72	Selective separation of Cr(III) and Fe(III) from liquid effluents using a chelating resin. <i>Water Science and Technology</i> , 2012, 66, 1968-1976.	1.2	8

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73	A data-driven approach for the study of coagulation phenomena in waste lubricant oils and its relevance in alkaline regeneration treatments. <i>Science of the Total Environment</i> , 2017, 599-600, 2054-2064.	3.9	8
74	Thermal dehydration of urban biosolids with green liquor dregs from pulp and paper mill. <i>Journal of Environmental Management</i> , 2020, 261, 109944.	3.8	8
75	Influence of N-rich material in valorization of industrial eggshell by co-composting. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2773-2785.	1.2	7
76	Compost from poultry hatchery waste as a biosorbent for removal of Cd(II) and Pb(II) from aqueous solutions. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 839-848.	0.9	7
77	Processing of highly-porous cellular iron oxide-based ceramics by emulsification of ceramic suspensions. <i>Ceramics International</i> , 2018, 44, 20354-20360.	2.3	7
78	Life cycle assessment of lightweight aggregates produced with ashes from municipal solid waste incineration. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1922-1931.	1.6	7
79	Assessment of hazardous property HP 14 using ecotoxicological tests: a case study of weathered coal fly ash. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20972-20983.	2.7	7
80	Assessment of NIR spectroscopy for predicting biochemical methane potential of agro-residues – A biorefinery approach. <i>Biomass and Bioenergy</i> , 2021, 151, 106169.	2.9	7
81	Organic biowastes blend selection for composting industrial eggshell by-product: experimental and statistical mixture design. <i>Water Science and Technology</i> , 2012, 65, 1939-1945.	1.2	6
82	Adsorption of phenol on silica aerogels using a stirred tank and a fixed bed column. <i>Ciência &amp; Tecnologia Dos Materiais</i> , 2017, 29, e229-e233.	0.5	6
83	Isothermal drying kinetics of sewage sludge using weathered coal fly ash as adjuvant for agronomic application. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2267-2277.	1.2	6
84	Improvement of Thermal Dehydration and Agronomic Properties of Products Obtained by Combining Sewage Sludge with Industrial Residues. <i>Waste and Biomass Valorization</i> , 2021, 12, 5087-5097.	1.8	6
85	Bioenergy Production through Mono and Co-Digestion of Tomato Residues. <i>Energies</i> , 2021, 14, 5563.	1.6	6
86	Effect of phenolic compound recovery from agro-industrial residues on the performance of pyrolysis process. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4257-4269.	2.9	6
87	Iron-based catalysts under solar and visible radiation for contaminants of emerging concern removal. <i>Energy Reports</i> , 2020, 6, 711-716.	2.5	5
88	Alkaline Electrochemical Reduction of a Magnesium Ferrosipinel into Metallic Iron for the Valorisation of Magnetite-Based Metallurgical Waste. <i>Journal of the Electrochemical Society</i> , 2021, 168, 073504.	1.3	5
89	Prediction of Solid Waste Incineration Residues Quantity for Valorization in Lightweight Aggregates. <i>Materials Science Forum</i> , 2006, 514-516, 1731-1735.	0.3	4
90	Phytotoxicity Evolution of Biowastes Undergoing Aerobic Decomposition. <i>Journal of Waste Management</i> , 2013, 2013, 1-8.	0.5	4

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91	Integration of ion-exchange and nanofiltration processes for recovering Cr(III) salts from synthetic tannery wastewater. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2340-2348.	1.2	4
92	Highly selective solvent extraction of Zn(II) and Cr(III) with trioctylmethylammonium chloride ionic liquid. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 131-142.	0.9	4
93	Electrochemical deposition of zero-valent iron from alkaline ceramic suspensions of Fe <sub>2-x</sub> Al <sub>x</sub> O <sub>3</sub> for iron valorisation. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	4
94	Properties of Recent Hazardous Waste in Portugal. <i>Key Engineering Materials</i> , 2002, 230-232, 400-403.	0.4	3
95	Greenhouse Assays with <i>Lactuca sativa</i> for Testing Sewage Sludge-Based Soil Amendments. <i>Agronomy</i> , 2022, 12, 209.	1.3	3
96	Municipal Solid Waste Incineration and Sustainable Development. , 2021, , 653-680.		2
97	Impact of sewage sludge with eggshell on <i>Lepidium sativum</i> L. growth. , 2019, , 119-124.		1
98	Agronomic valorization of sewage sludge: The potential of thermal drying to achieve sanitation and biological stability. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 27, 100646.	1.6	1
99	Hazards identification in waste collection systems: A case study. , 2017, , 227-233.		0
100	Isothermal drying of sewage sludge with eggshell for soil applications. , 2019, , 75-80.		0
101	Management of tomato waste: Biomethane production and nutrient recovery. , 2019, , 87-92.		0
102	Effect of chemical additives on the regeneration of waste lubricant oil. , 2019, , 13-19.		0