

# Regina M B O Duarte

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,760  
citations

279798

23  
h-index

289244

40  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic study of the water-soluble organic matter isolated from atmospheric aerosols collected under different atmospheric conditions. <i>Analytica Chimica Acta</i> , 2005, 530, 7-14.	5.4	165
2	Comparison of structural features of water-soluble organic matter from atmospheric aerosols with those of aquatic humic substances. <i>Atmospheric Environment</i> , 2007, 41, 8100-8113.	4.1	163
3	Effect of Soil Organic Matter, Soil pH, and Moisture Content on Solubility and Dissolution Rate of CuO NPs in Soil. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4959-4967.	10.0	90
4	Spectroscopic characteristics of ultrafiltration fractions of fulvic and humic acids isolated from an eucalyptus bleached Kraft pulp mill effluent. <i>Water Research</i> , 2003, 37, 4073-4080.	11.3	78
5	Natural organic matter in urban aerosols: Comparison between water and alkaline soluble components using excitation-emission matrix fluorescence spectroscopy and multiway data analysis. <i>Atmospheric Environment</i> , 2015, 102, 1-10.	4.1	75
6	Spectroscopic characterization of dissolved organic matter isolated from rainwater. <i>Chemosphere</i> , 2009, 74, 1053-1061.	8.2	67
7	Application of Non-Ionic Solid Sorbents (XAD Resins) for the Isolation and Fractionation of Water-Soluble Organic Compounds from Atmospheric Aerosols. <i>Journal of Atmospheric Chemistry</i> , 2005, 51, 79-93.	3.2	65
8	Immobilization strategies and analytical applications for metallic and metal-oxide nanomaterials on surfaces. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 40, 90-105.	11.4	64
9	Two-Dimensional NMR Studies of Water-Soluble Organic Matter in Atmospheric Aerosols. <i>Environmental Science &amp; Technology</i> , 2008, 42, 8224-8230.	10.0	61
10	Synchronous Scan and Excitation-Emission Matrix Fluorescence Spectroscopy of Water-Soluble Organic Compounds in Atmospheric Aerosols. <i>Journal of Atmospheric Chemistry</i> , 2004, 48, 157-171.	3.2	59
11	Trends in data processing of comprehensive two-dimensional chromatography: State of the art. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 31-45.	2.3	55
12	A critical review of advanced analytical techniques for water-soluble organic matter from atmospheric aerosols. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1659-1671.	11.4	53
13	Challenges in the identification and characterization of free amino acids and proteinaceous compounds in atmospheric aerosols: A critical review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 97-107.	11.4	49
14	Investigating the water-soluble organic functionality of urban aerosols using two-dimensional correlation of solid-state <sup>13</sup> C NMR and FTIR spectral data. <i>Atmospheric Environment</i> , 2015, 116, 245-252.	4.1	38
15	<sup>1</sup> H NMR studies of water- and alkaline-soluble organic matter from fine urban atmospheric aerosols. <i>Atmospheric Environment</i> , 2015, 119, 374-380.	4.1	38
16	Carbonaceous materials in size-segregated atmospheric aerosols from urban and coastal-rural areas at the Western European Coast. <i>Atmospheric Research</i> , 2008, 90, 253-263.	4.1	34
17	Absorption and fluorescence properties of rainwater during the cold season at a town in Western Portugal. <i>Journal of Atmospheric Chemistry</i> , 2009, 62, 45-57.	3.2	33
18	Structural signatures of water-soluble organic aerosols in contrasting environments in South America and Western Europe. <i>Environmental Pollution</i> , 2017, 227, 513-525.	7.5	32

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19	Comprehensive multidimensional liquid chromatography for advancing environmental and natural products research. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 116, 186-197.	11.4	29
20	Fluorescence as a Tool for Tracing the Organic Contamination from Pulp Mill Effluents in Surface Waters. <i>Clean - Soil, Air, Water</i> , 2001, 28, 364-371.	0.6	27
21	Determination of anionic surface active agents using silica coated magnetite nanoparticles modified with cationic surfactant aggregates. <i>Journal of Chromatography A</i> , 2013, 1299, 25-32.	3.7	26
22	Persistence of urban organic aerosols composition: Decoding their structural complexity and seasonal variability. <i>Environmental Pollution</i> , 2017, 231, 281-290.	7.5	26
23	A new chromatographic response function for use in size-exclusion chromatography optimization strategies: Application to complex organic mixtures. <i>Journal of Chromatography A</i> , 2010, 1217, 7556-7563.	3.7	24
24	Resolving the chemical heterogeneity of natural organic matter: New insights from comprehensive two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1249, 138-146.	3.7	23
25	Comparative study of atmospheric water-soluble organic aerosols composition in contrasting suburban environments in the Iberian Peninsula Coast. <i>Science of the Total Environment</i> , 2019, 648, 430-441.	8.0	23
26	Unraveling the structural features of organic aerosols by NMR spectroscopy: a review. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 658-666.	1.9	19
27	Structural Characterisation of the Coloured Organic Matter from an Eucalyptus Bleached Kraft Pulp Mill Effluent. <i>International Journal of Environmental Analytical Chemistry</i> , 2000, 78, 333-342.	3.3	18
28	Optimizing size-exclusion chromatographic conditions using a composite objective function and chemometric tools: Application to natural organic matter profiling. <i>Analytica Chimica Acta</i> , 2011, 688, 90-98.	5.4	18
29	Two chemically distinct light-absorbing pools of urban organic aerosols: A comprehensive multidimensional analysis of trends. <i>Chemosphere</i> , 2016, 145, 215-223.	8.2	18
30	Structural Features and Pro-Inflammatory Effects of Water-Soluble Organic Matter in Inhalable Fine Urban Air Particles. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1082-1091.	10.0	18
31	Comparison between diafiltration and concentration operation modes for the determination of permeation coefficients of humic substances through ultrafiltration membranes. <i>Analytica Chimica Acta</i> , 2001, 442, 155-164.	5.4	17
32	The Assembling and Application of an Automated Segmented Flow Analyzer for the Determination of Dissolved Organic Carbon Based on UV- $\text{H}_2\text{O}_2$ Persulphate Oxidation. <i>Analytical Letters</i> , 2006, 39, 1979-1992.	1.8	17
33	A new chromatographic response function for assessing the separation quality in comprehensive two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1225, 121-131.	3.7	17
34	Chromatographic response functions in 1D and 2D chromatography as tools for assessing chemical complexity. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 45, 14-23.	11.4	17
35	Profiling Water-Soluble Organic Matter from Urban Aerosols Using Comprehensive Two-Dimensional Liquid Chromatography. <i>Aerosol Science and Technology</i> , 2015, 49, 381-389.	3.1	17
36	Humic acids as proxies for assessing different Mediterranean forest soils signatures using solid-state CPMAS $^{13}\text{C}$ NMR spectroscopy. <i>Chemosphere</i> , 2013, 91, 1556-1565.	8.2	16

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37	Organic Pollutants in Soils. , 2018, , 103-126.		14
38	Multidimensional Analytical Characterization of Water-Soluble Organic Aerosols: Challenges and New Perspectives. Applied Sciences (Switzerland), 2021, 11, 2539.	2.5	14
39	Deposition of Aerosols onto Upper Ocean and Their Impacts on Marine Biota. Atmosphere, 2021, 12, 684.	2.3	14
40	Advanced instrumental approaches for chemical characterization of indoor particulate matter. Applied Spectroscopy Reviews, 2022, 57, 705-745.	6.7	13
41	Exploring water-soluble organic aerosols structures in urban atmosphere using advanced solid-state <sup>13</sup> C NMR spectroscopy. Atmospheric Environment, 2020, 230, 117503.	4.1	12
42	Considerations on the application of miniaturized sample preparation approaches for the analysis of organic compounds in environmental matrices. Open Chemistry, 2012, 10, 433-449.	1.9	11
43	A simple approach to reduce dimensionality from comprehensive two-dimensional liquid chromatography coupled with a multichannel detector. Analytica Chimica Acta, 2013, 804, 296-303.	5.4	10
44	NMR Studies of Organic Aerosols. Annual Reports on NMR Spectroscopy, 2017, 92, 83-135.	1.5	10
45	Tracing of aerosol sources in an urban environment using chemical, Sr isotope, and mineralogical characterization. Environmental Science and Pollution Research, 2017, 24, 11006-11016.	5.3	10
46	Particulate matter indoors: a strategy to sample and monitor size-selective fractions. Applied Spectroscopy Reviews, 2022, 57, 675-704.	6.7	10
47	A generalization of a chromatographic response function for application in non-target one- and two-dimensional chromatography of complex samples. Journal of Chromatography A, 2012, 1263, 141-150.	3.7	9
48	Catalog of total excitation-emission and total synchronous fluorescence maps with synchronous fluorescence spectra of homologated fluorescent pesticides in large use in Morocco: development of a spectrometric low cost and direct analysis as an alert method in case of massive contamination of soils and waters by fluorescent pesticides. Environmental Science and Pollution Research, 2015, 22, 6766-6777.	5.3	7
49	Structural Characterization of Dissolved Organic Matter in Permafrost Peatland Lakes. Water (Switzerland), 2020, 12, 3059.	2.7	7
50	Assessing reactive oxygen and nitrogen species in atmospheric and aquatic environments: Analytical challenges and opportunities. TrAC - Trends in Analytical Chemistry, 2021, 135, 116149.	11.4	6
51	Thermogravimetric characteristics of water-soluble organic matter from atmospheric aerosols collected in a rural-coastal area. Atmospheric Environment, 2008, 42, 6670-6678.	4.1	5
52	Chromatography Coupled to Various Detectors as a Tool for Separation and Determination of Bioactive Compounds. Comprehensive Analytical Chemistry, 2014, 65, 219-252.	1.3	4
53	Urban Atmospheric Aerosols: Sources, Analysis, and Effects. Atmosphere, 2020, 11, 1221.	2.3	4
54	On the Water-Soluble Organic Matter in Inhalable Air Particles: Why Should Outdoor Experience Motivate Indoor Studies?. Applied Sciences (Switzerland), 2021, 11, 9917.	2.5	4

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55	Multidimensional analytical techniques in environmental research: Evolution of concepts. , 2020, , 1-26.		3
56	Geochemistry   Soil, Organic Components â†. , 2017, , .		0
57	Multidimensional liquid chromatography and capillary electrophoresis coupled to high-resolution detectors applied to complex environmental samples. , 2020, , 169-208.		0