

Debora F Rodrigues

List of Publications by Year in descending order

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109
papers

7,564
citations

61945

43
h-index

53190

85
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110
all docs

110
docs citations

110
times ranked

10347
citing authors

#	ARTICLE	IF	CITATIONS
1	Zwitterionic polymers in biofouling and inorganic fouling mechanisms. , 2022, , 33-70.		1
2	Bio self-healing concrete using MICP by an indigenous <i>Bacillus cereus</i> strain isolated from Qatari soil. <i>Construction and Building Materials</i> , 2022, 328, 126943.	3.2	41
3	Use of polyaniline coating on magnetic MoO ₃ and its effects on material stability and visible-light photocatalysis of tetracycline. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107635.	3.3	15
4	Effect of Endosymbiotic Bacteria on Fungal Resistance Toward Heavy Metals. <i>Frontiers in Microbiology</i> , 2022, 13, 822541.	1.5	3
5	Democratization of fungal highway columns as a tool to investigate bacteria associated with soil fungi. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	15
6	Copper mining bacteria: Converting toxic copper ions into a stable single-atom copper. <i>Science Advances</i> , 2021, 7, .	4.7	16
7	Investigation of the removal and recovery of nitrate by an amine-enriched composite under different fixed-bed column conditions. <i>Chemical Engineering Research and Design</i> , 2021, 150, 365-372.	2.7	15
8	Polyacrylic acid-brushes tethered to graphene oxide membrane coating for scaling and biofouling mitigation on reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021, 630, 119308.	4.1	37
9	Prevention of infection caused by enteropathogenic <i>E. coli</i> O157:H7 in intestinal cells using enrofloxacin entrapped in polymer based nanocarriers. <i>Journal of Hazardous Materials</i> , 2021, 414, 125454.	6.5	13
10	The role of nanomaterials and antibiotics in microbial resistance and environmental impact: an overview. <i>Current Opinion in Chemical Engineering</i> , 2021, 33, 100707.	3.8	9
11	Asymmetric flow field-flow fractionation (AF4) with fluorescence and multi-detector analysis for direct, real-time, size-resolved measurements of drug release from polymeric nanoparticles. <i>Journal of Controlled Release</i> , 2021, 338, 410-421.	4.8	9
12	Design and performance of Fe ₃ O ₄ @SiO ₂ /MoO ₃ /polydopamine-graphene oxide composites for visible light photocatalysis. <i>Emergent Materials</i> , 2021, 4, 1425-1439.	3.2	10
13	Widespread bacterial diversity within the bacteriome of fungi. <i>Communications Biology</i> , 2021, 4, 1168.	2.0	19
14	Mineral Scaling on Reverse Osmosis Membranes: Role of Mass, Orientation, and Crystallinity on Permeability. <i>Environmental Science & Technology</i> , 2021, 55, 16110-16119.	4.6	9
15	<i>In Situ</i> Polymerization of Polypyrrole and Polyaniline on the Surface of Magnetic Molybdenum Trioxide Nanoparticles: Implications for Water Treatment. <i>ACS Applied Nano Materials</i> , 2021, 4, 12415-12428.	2.4	5
16	Nano-based adsorbent and photocatalyst use for pharmaceutical contaminant removal during indirect potable water reuse. <i>Npj Clean Water</i> , 2020, 3, .	3.1	127
17	Emerging investigator series: polymeric nanocarriers for agricultural applications: synthesis, characterization, and environmental and biological interactions. <i>Environmental Science: Nano</i> , 2020, 7, 37-67.	2.2	68
18	Oxidation state of Mo affects dissolution and visible-light photocatalytic activity of MoO ₃ nanostructures. <i>Journal of Catalysis</i> , 2020, 381, 508-519.	3.1	52

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19	Inorganic salts and organic matter effects on nanorod, nanowire, and nanoplate MoO ₃ aggregation, dissolution, and photocatalysis. <i>Environmental Science: Nano</i> , 2020, 7, 3794-3804.	2.2	4
20	Microbially-induced mineral scaling in desalination conditions: Mechanisms and effects of commercial antiscalants. <i>Water Research</i> , 2020, 179, 115863.	5.3	37
21	Redox mechanisms of conversion of Cr(VI) to Cr(III) by graphene oxide-polymer composite. <i>Scientific Reports</i> , 2020, 10, 9237.	1.6	85
22	Magnetic Active Water Filter Membrane for Induced Heating to Remove Biofoulants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10291-10298.	4.0	5
23	Aerobic degradation of dichlorinated dibenzo-p-dioxin and dichlorinated dibenzofuran by bacteria strains obtained from tropical contaminated soil. <i>Biodegradation</i> , 2020, 31, 123-137.	1.5	12
24	Structure and morphology of calcium-silicate-hydrates cross-linked with dipodal organosilanes. <i>Cement and Concrete Research</i> , 2020, 133, 106076.	4.6	21
25	Enrofloxacin-Impregnated PLGA Nanocarriers for Efficient Therapeutics and Diminished Generation of Reactive Oxygen Species. <i>ACS Applied Nano Materials</i> , 2019, 2, 5035-5043.	2.4	16
26	Impact of water chemistry, shelf-life, and regeneration in the removal of different chemical and biological contaminants in water by a model Polymeric Graphene Oxide Nanocomposite Membrane Coating. <i>Journal of Water Process Engineering</i> , 2019, 32, 100967.	2.6	14
27	Antibacterial activity of silver/reduced graphene oxide nanocomposite synthesized by sustainable process. <i>Energy, Ecology and Environment</i> , 2019, 4, 318-324.	1.9	4
28	Graphene Oxide Nanocomposite Hydrogel Beads for Removal of Selenium in Contaminated Water. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2668-2679.	2.0	45
29	Use of Response Surface Methodology To Develop and Optimize the Composition of a Chitosan-Polyethyleneimine-Graphene Oxide Nanocomposite Membrane Coating To More Effectively Remove Cr(VI) and Cu(II) from Water. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17784-17795.	4.0	102
30	Exposure-Dependent Antimicrobial Activity and Oxidative Properties of Polymer-Based Graphene Oxide Nanocomposites. <i>Materials Science Forum</i> , 2019, 947, 13-20.	0.3	2
31	Effect of cadmium on the performance of partial nitrification using sequencing batch reactor. <i>Chemosphere</i> , 2019, 222, 913-922.	4.2	42
32	Investigation of Thermal Properties of Graphene-Coated Membranes by Laser Irradiation to Remove Biofoulants. <i>Environmental Science & Technology</i> , 2019, 53, 903-911.	4.6	11
33	Isolation, identification and biodiversity of antiscalant degrading seawater bacteria using MALDI-TOF-MS and multivariate analysis. <i>Science of the Total Environment</i> , 2019, 656, 910-920.	3.9	27
34	Cellular and metabolic approaches to investigate the effects of graphene and graphene oxide in the fungi <i>Aspergillus flavus</i> and <i>Aspergillus niger</i> . <i>Carbon</i> , 2019, 143, 419-429.	5.4	37
35	Use of DPSIR Framework to Analyze Water Resources in Qatar and Overview of Reverse Osmosis as an Environment Friendly Technology. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13081.	1.3	20
36	Confocal microscopy as a new real-time quantification method for oil content in produced water. <i>Journal of Petroleum Science and Engineering</i> , 2018, 167, 54-63.	2.1	4

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37	Gypsum scale formation on graphene oxide modified reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2018, 552, 132-143.	4.1	67
38	Biological Degradation and Biostability of Nanocomposites Based on Polysulfone with Different Concentrations of Reduced Graphene Oxide. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700359.	1.7	9
39	Chronic toxicity of graphene and graphene oxide in sequencing batch bioreactors: A comparative investigation. <i>Journal of Hazardous Materials</i> , 2018, 343, 200-207.	6.5	38
40	Level of Fimbriation Alters the Adhesion of <i>Escherichia coli</i> Bacteria to Interfaces. <i>Langmuir</i> , 2018, 34, 1133-1142.	1.6	31
41	Relationship of Biodiversity with Heavy Metal Tolerance and Sorption Capacity: A Meta-Analysis Approach. <i>Environmental Science & Technology</i> , 2018, 52, 184-194.	4.6	76
42	A morphological, enzymatic and metabolic approach to elucidate apoptotic-like cell death in fungi exposed to h- and l-molybdenum trioxide nanoparticles. <i>Nanoscale</i> , 2018, 10, 20702-20716.	2.8	29
43	Recent advances in graphene-based biosensor technology with applications in life sciences. <i>Journal of Nanobiotechnology</i> , 2018, 16, 75.	4.2	343
44	The Influence of Salinity, pH, Temperature and Particles on Produced Water Oil Quantification Precision and Accuracy with Confocal Laser Fluorescence Microscopy. <i>Energy & Fuels</i> , 2018, 32, 6978-6989.	2.5	8
45	Influence of environmental factors on tenuazonic acid production by <i>Epicoccum sorghinum</i> : An integrative approach of field and laboratory conditions. <i>Science of the Total Environment</i> , 2018, 640-641, 1132-1138.	3.9	7
46	Draft Genome Sequence of Sorghum Grain Mold Fungus <i>Epicoccum sorghinum</i> , a Producer of Tenuazonic Acid. <i>Genome Announcements</i> , 2017, 5, .	0.8	19
47	Designing polymeric adhesives for antimicrobial materials: poly(ethylene imine) polymer, graphene, graphene oxide and molybdenum trioxide – a biomimetic approach. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6616-6628.	2.9	37
48	Response surface methodology as a powerful tool to optimize the synthesis of polymer-based graphene oxide nanocomposites for simultaneous removal of cationic and anionic heavy metal contaminants. <i>RSC Advances</i> , 2017, 7, 18480-18490.	1.7	52
49	Acute toxicity of graphene nanoplatelets on biological wastewater treatment process. <i>Environmental Science: Nano</i> , 2017, 4, 160-169.	2.2	35
50	Electrospinning Superhydrophobic and Antibacterial PS/MWNT Nanofibers onto Multilayer Gas Barrier Films. <i>Macromolecular Symposia</i> , 2017, 374, 1600138.	0.4	11
51	Biodegradation of graphene oxide-polymer nanocomposite films in wastewater. <i>Environmental Science: Nano</i> , 2017, 4, 1808-1816.	2.2	46
52	Chitosan Cross-Linked Graphene Oxide Nanocomposite Films with Antimicrobial Activity for Application in Food Industry. <i>Macromolecular Symposia</i> , 2017, 374, 1600114.	0.4	72
53	Functionalization of reduced graphene oxide with polysulfone brushes enhance antibacterial properties and reduce human cytotoxicity. <i>Carbon</i> , 2017, 111, 258-268.	5.4	43
54	High-capacity hydrogel polymer composite adsorbent for nitrate and phosphate removal from water. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 438-460.	0.0	1

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55	Photothermal inactivation of heat-resistant bacteria on nanoporous gold disk arrays. <i>Optical Materials Express</i> , 2016, 6, 1217.	1.6	53
56	Toxicity and Environmental Applications of Graphene-Based Nanomaterials. <i>Carbon Nanostructures</i> , 2016, , 323-356.	0.1	6
57	Biostimulation of metal-resistant microbial consortium to remove zinc from contaminated environments. <i>Science of the Total Environment</i> , 2016, 550, 670-675.	3.9	22
58	Incorporation of graphene oxide into a chitosan-poly(acrylic acid) porous polymer nanocomposite for enhanced lead adsorption. <i>Environmental Science: Nano</i> , 2016, 3, 638-646.	2.2	73
59	Extremophiles: Applications in Nanotechnology. , 2016, , .		20
60	Application of Nanoparticles. , 2016, , 163-193.		5
61	Thermophiles and Psychrophiles in Nanotechnology. , 2016, , 89-127.		11
62	Nanoparticles Synthesized by Microorganisms. , 2016, , 1-51.		5
63	CO2 sequestration by ureolytic microbial consortia through microbially-induced calcite precipitation. <i>Science of the Total Environment</i> , 2016, 572, 671-680.	3.9	54
64	Alkaliphiles and Acidophiles in Nanotechnology. , 2016, , 129-162.		5
65	Photothermal inactivation of bacteria on plasmonic nanostructures. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
66	Halophiles in Nanotechnology. , 2016, , 53-88.		9
67	On the antibacterial mechanism of graphene oxide (GO) Langmuir-Blodgett films. <i>Chemical Communications</i> , 2015, 51, 2886-2889.	2.2	232
68	Toxicity of exfoliated-MoS ₂ and annealed exfoliated-MoS ₂ towards planktonic cells, biofilms, and mammalian cells in the presence of electron donor. <i>Environmental Science: Nano</i> , 2015, 2, 370-379.	2.2	70
69	Biotic and abiotic effects on CO2 sequestration during microbially-induced calcium carbonate precipitation. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	1.3	56
70	Carbon-based nanomaterials for removal of chemical and biological contaminants from water: A review of mechanisms and applications. <i>Carbon</i> , 2015, 91, 122-143.	5.4	486
71	Sonochemically grown 1D ZnO nanostructures and their applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
72	Antibacterial properties and mechanisms of toxicity of sonochemically grown ZnO nanorods. <i>RSC Advances</i> , 2015, 5, 2568-2575.	1.7	61

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73	A comparative study of lysozyme adsorption with graphene, graphene oxide, and single-walled carbon nanotubes: Potential environmental applications. <i>Chemical Engineering Journal</i> , 2014, 240, 147-154.	6.6	93
74	The synergism of temperature, pH and growth phases on heavy metal biosorption by two environmental isolates. <i>Journal of Hazardous Materials</i> , 2014, 279, 236-243.	6.5	67
75	Efficacy of Carbonaceous Materials for Sorbing Polychlorinated Biphenyls from Aqueous Solution. <i>Environmental Science & Technology</i> , 2014, 48, 10372-10379.	4.6	41
76	Optimized carbonate micro-particle production by <i>Sporosarcina pasteurii</i> using response surface methodology. <i>Ecological Engineering</i> , 2014, 62, 168-174.	1.6	43
77	Surface Modification of Membrane Filters Using Graphene and Graphene Oxide-Based Nanomaterials for Bacterial Inactivation and Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1559-1565.	3.2	196
78	Graphene oxide functionalized with ethylenediamine triacetic acid for heavy metal adsorption and anti-microbial applications. <i>Carbon</i> , 2014, 77, 289-301.	5.4	212
79	Copper removal using a heavy-metal resistant microbial consortium in a fixed-bed reactor. <i>Water Research</i> , 2014, 62, 156-166.	5.3	51
80	High throughput colorimetric assay for rapid urease activity quantification. <i>Journal of Microbiological Methods</i> , 2013, 95, 324-326.	0.7	48
81	Toxicity of Functionalized Single-Walled Carbon Nanotubes on Soil Microbial Communities: Implications for Nutrient Cycling in Soil. <i>Environmental Science & Technology</i> , 2013, 47, 625-633.	4.6	138
82	Investigation of acute effects of graphene oxide on wastewater microbial community: A case study. <i>Journal of Hazardous Materials</i> , 2013, 256-257, 33-39.	6.5	236
83	Antimicrobial PVK:SWNT nanocomposite coated membrane for water purification: Performance and toxicity testing. <i>Water Research</i> , 2013, 47, 3966-3975.	5.3	62
84	Improved removal of lead(ii) from water using a polymer-based graphene oxide nanocomposite. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3789.	5.2	190
85	CHAPTER 12. Carbon-Based Polymer Nanocomposites: From Material Preparation to Antimicrobial Applications. <i>RSC Polymer Chemistry Series</i> , 2013, , 327-350.	0.1	1
86	Temperature-Responsiveness and Antimicrobial Properties of CNT-PNIPAM Hybrid Brush Films. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 464-469.	1.1	18
87	Antimicrobial Applications of Electroactive PVK-SWNT Nanocomposites. <i>Environmental Science & Technology</i> , 2012, 46, 1804-1810.	4.6	116
88	Graphene nanocomposite for biomedical applications: fabrication, antimicrobial and cytotoxic investigations. <i>Nanotechnology</i> , 2012, 23, 395101.	1.3	172
89	Tunable Protein and Bacterial Cell Adsorption on Colloidally Templated Superhydrophobic Polythiophene Films. <i>Chemistry of Materials</i> , 2012, 24, 870-880.	3.2	122
90	Toxicity of a polymer-graphene oxide composite against bacterial planktonic cells, biofilms, and mammalian cells. <i>Nanoscale</i> , 2012, 4, 4746.	2.8	375

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91	Bactericidal and Anticorrosion Properties in PVK/MWNT Nanocomposite Coatings on Stainless Steel. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 807-813.	1.7	19
92	Antimicrobial graphene polymer (PVK-GO) nanocomposite films. <i>Chemical Communications</i> , 2011, 47, 8892.	2.2	186
93	Complete Genome Sequence of the Thermophilic Bacterium <i>Exiguobacterium</i> sp. AT1b. <i>Journal of Bacteriology</i> , 2011, 193, 2880-2881.	1.0	47
94	Biofilters: A Solution for Heavy Metals Removal from Water?. <i>Journal of Bioremediation & Biodegradation</i> , 2011, 02, .	0.5	9
95	The Genome Sequence of <i>Psychrobacter arcticus</i> 273-4, a Psychroactive Siberian Permafrost Bacterium, Reveals Mechanisms for Adaptation to Low-Temperature Growth. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2304-2312.	1.4	184
96	Toxic Effects of Single-Walled Carbon Nanotubes in the Development of <i>E. coli</i> Biofilm. <i>Environmental Science & Technology</i> , 2010, 44, 4583-4589.	4.6	183
97	Role of type 1 fimbriae and mannose in the development of <i>Escherichia coli</i> K12 biofilm: from initial cell adhesion to biofilm formation. <i>Biofouling</i> , 2009, 25, 401-411.	0.8	76
98	Diversity of hydrocarbon-degrading <i>Klebsiella</i> strains isolated from hydrocarbon-contaminated estuaries. <i>Journal of Applied Microbiology</i> , 2009, 106, 1304-1314.	1.4	44
99	Biogeography of two cold-adapted genera: <i>Psychrobacter</i> and <i>Exiguobacterium</i> . <i>ISME Journal</i> , 2009, 3, 658-665.	4.4	78
100	Architecture of thermal adaptation in an <i>Exiguobacterium sibiricum</i> strain isolated from 3 million year old permafrost: A genome and transcriptome approach. <i>BMC Genomics</i> , 2008, 9, 547.	1.2	134
101	Antibacterial Effects of Carbon Nanotubes: Size Does Matter!. <i>Langmuir</i> , 2008, 24, 6409-6413.	1.6	1,003
102	Coping with Our Cold Planet. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1677-1686.	1.4	162
103	Multi-locus real-time PCR for quantitation of bacteria in the environment reveals <i>Exiguobacterium</i> to be prevalent in permafrost. <i>FEMS Microbiology Ecology</i> , 2007, 59, 489-499.	1.3	35
104	Characterization of <i>Exiguobacterium</i> isolates from the Siberian permafrost. Description of <i>Exiguobacterium sibiricum</i> sp. nov.. <i>Extremophiles</i> , 2006, 10, 285-294.	0.9	124
105	Enantioselective reduction of ortho-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 33, 73-79.	1.8	20
106	Development of a static headspace gas chromatographic/mass spectrometric method to analyze the level of volatile contaminants biodegradation. <i>Journal of Chromatography A</i> , 2004, 1048, 67-71.	1.8	11
107	Genomic and Expression Analyses of Cold-Adapted Microorganisms. , 0, , 126-155.		22
108	Visible Light Photocatalytic Degradation of Methylene Blue Using Polypyrrole-Coated Molybdenum-Based Magnetic Photocatalyst. <i>Materials Science Forum</i> , 0, 1053, 397-404.	0.3	0

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109	Graphene Oxide-Hybridized Waterborne Epoxy Coating for Simultaneous Anticorrosive and Antibiofilm Functions. <i>Frontiers in Materials</i> , 0, 9, .	1.2	1