

Bogdan C Donose

List of Publications by Year in descending order

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66
papers

2,958
citations

159525

30
h-index

161767

54
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67
all docs

67
docs citations

67
times ranked

4061
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Surface Charge and Hydrophobicity on Anodic Biofilm Formation, Community Composition, and Current Generation in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2013, 47, 7563-7570.	4.6	294
2	A novel carbon nanotube modified scaffold as an efficient biocathode material for improved microbial electrosynthesis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13093-13102.	5.2	236
3	The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2013, 6, 1291.	15.6	132
4	Flame Oxidation of Stainless Steel Felt Enhances Anodic Biofilm Formation and Current Output in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2014, 48, 7151-7156.	4.6	131
5	The viscoelastic, hyperelastic and scale dependent behaviour of freshly excised individual skin layers. <i>Biomaterials</i> , 2011, 32, 4670-4681.	5.7	130
6	Silica Surfaces Lubrication by Hydrated Cations Adsorption from Electrolyte Solutions. <i>Langmuir</i> , 2005, 21, 1834-1839.	1.6	116
7	Non-invasive characterization of electrochemically active microbial biofilms using confocal Raman microscopy. <i>Energy and Environmental Science</i> , 2012, 5, 7017.	15.6	101
8	The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014, 49, 166-174.	5.3	92
9	Crosstalk between sugarcane and a plant-growth promoting Burkholderia species. <i>Scientific Reports</i> , 2016, 6, 37389.	1.6	92
10	Physicochemical and mechanical properties of mixed culture polyhydroxyalkanoate (PHBV). <i>European Polymer Journal</i> , 2013, 49, 904-913.	2.6	90
11	Self-assembling polystyrene-block-poly(ethylene oxide) copolymer surface coatings: Resistance to protein and cell adhesion. <i>Biomaterials</i> , 2009, 30, 2449-2456.	5.7	89
12	Effect of alcohol-water exchange and surface scanning on nanobubbles and the attraction between hydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 267-274.	5.0	80
13	Biodegradation in a soil environment of activated sludge derived polyhydroxyalkanoate (PHBV). <i>Polymer Degradation and Stability</i> , 2012, 97, 2301-2312.	2.7	80
14	Purification and Conformational Analysis of a Key Exopolysaccharide Component of Mixed Culture Aerobic Sludge Granules. <i>Environmental Science & Technology</i> , 2010, 44, 4729-4734.	4.6	78
15	A new and highly robust light-responsive Azo-UiO-66 for highly selective and low energy post-combustion CO ₂ capture and its application in a mixed matrix membrane for CO ₂ /N ₂ separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16390-16402.	5.2	78
16	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3607.	5.2	73
17	Effect of pH on the ageing of reverse osmosis membranes upon exposure to hypochlorite. <i>Desalination</i> , 2013, 309, 97-105.	4.0	73
18	Autotrophic hydrogen-producing biofilm growth sustained by a cathode as the sole electron and energy source. <i>Bioelectrochemistry</i> , 2015, 102, 56-63.	2.4	71

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19	Direct observation of athermal photofluidisation in azo-polymer films. <i>Soft Matter</i> , 2014, 10, 4640-4647.	1.2	67
20	Modeling Cell Membrane Perturbation by Molecules Designed for Transmembrane Electron Transfer. <i>Langmuir</i> , 2014, 30, 2429-2440.	1.6	55
21	Real-Time Measurements of the Redox States of c-Type Cytochromes in Electroactive Biofilms: A Confocal Resonance Raman Microscopy Study. <i>PLoS ONE</i> , 2014, 9, e89918.	1.1	54
22	Effects of cleaning procedures of silica wafers on their friction characteristics. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 233-237.	5.0	52
23	Oxidised stainless steel: a very effective electrode material for microbial fuel cell bioanodes but at high risk of corrosion. <i>Electrochimica Acta</i> , 2015, 158, 356-360.	2.6	47
24	Removal of the X-ray Contrast Media Diatrizoate by Electrochemical Reduction and Oxidation. <i>Environmental Science & Technology</i> , 2013, 47, 13686-13694.	4.6	45
25	Virus removal and integrity in aged RO membranes. <i>Water Research</i> , 2016, 90, 167-175.	5.3	43
26	pH dependence of friction forces between silica surfaces in solutions. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 199-203.	5.0	42
27	The effect of surface treatment and slime coatings on ZnS hydrophobicity. <i>Minerals Engineering</i> , 2008, 21, 958-966.	1.8	38
28	Spontaneous modification of carbon surface with neutral red from its diazonium salts for bioelectrochemical systems. <i>Biosensors and Bioelectronics</i> , 2013, 47, 184-189.	5.3	37
29	Plasma treatment of electrodes significantly enhances the development of anodic electrochemically active biofilms. <i>Electrochimica Acta</i> , 2013, 108, 566-574.	2.6	35
30	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. <i>Water Research</i> , 2020, 174, 115627.	5.3	35
31	Aggregation of Fullerol C ₆₀ (OH) ₂₄ Nanoparticles as Revealed Using Flow Field-Flow Fractionation and Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 16063-16070.	1.6	27
32	Nucleobases modified azo-polysiloxanes, materials with potential application in biomolecules nanomanipulation. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4240-4248.	2.5	26
33	Effect of nanobubbles on friction forces between hydrophobic surfaces in water. <i>Journal of Colloid and Interface Science</i> , 2009, 329, 202-207.	5.0	23
34	Analysis of electron transfer dynamics in mixed community electroactive microbial biofilms. <i>RSC Advances</i> , 2016, 6, 3650-3660.	1.7	23
35	Microcellular Electrode Material for Microbial Bioelectrochemical Systems Synthesized by Hydrothermal Carbonization of Biomass Derived Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2508-2516.	3.2	20
36	Specific Effects of Divalent Cation Nitrates on the Nanotribology of Silica Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7035-7041.	1.8	19

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37	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019, 167, 115032.	5.3	19
38	Understanding the Mobilization of a Nitrification Inhibitor from Novel Slow Release Pellets, Fabricated through Extrusion Processing with PHBV Biopolymer. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2449-2458.	2.4	18
39	Opportunities for reducing coagulants usage in urban water management: The Oxley Creek Sewage Collection and Treatment System as an example. <i>Water Research</i> , 2019, 165, 114996.	5.3	17
40	A synthetic elastomer based on acrylated polypropylene glycol triol with tunable modulus for tissue engineering applications. <i>Biomaterials</i> , 2010, 31, 7937-7947.	5.7	16
41	Electrochemically produced hydrogen bubble probes for gas evolution kinetics and force spectroscopy. <i>Electrochemistry Communications</i> , 2012, 24, 21-24.	2.3	16
42	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. <i>Water Research</i> , 2020, 184, 116179.	5.3	15
43	Polymer/Clay Nanocomposites: Influence of Ionic Strength on the Structure and Adhesion Characteristics in Multilayered Films. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 771-780.	1.7	14
44	Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis. <i>Water Research</i> , 2022, 217, 118401.	5.3	13
45	Electrochemical Production of Magnetite Nanoparticles for Sulfide Control in Sewers. <i>Environmental Science & Technology</i> , 2017, 51, 12229-12234.	4.6	12
46	Near-field terahertz nanoscopy of coplanar microwave resonators. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
47	Thermal behaviour and molecular modelling of some aromatic polyethers containing a hexamethylene spacer. <i>Polymer Degradation and Stability</i> , 2001, 72, 441-445.	2.7	8
48	Surface-enhanced fluorescence of <i>in situ</i> synthesized polysilanesilver nanoparticles. <i>Polymer International</i> , 2012, 61, 1726-1732.	1.6	8
49	Azo-polymers photofluidisation as a transient state of matter emulated by molecular motors. <i>RSC Advances</i> , 2016, 6, 27087-27093.	1.7	8
50	Towards in situ electro-generation of ferrate for drinking water treatment: A comparison of three low-cost sacrificial iron electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114897.	1.9	8
51	Effect of aluminium sulphate on interactions between silica surfaces studied by atomic force microscopy. <i>Water Research</i> , 2007, 41, 3449-3457.	5.3	7
52	Mechanical and cell-to-cell adhesive properties of aggregated <i>Methanosarcina</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 303-312.	2.5	7
53	Combating Antibiotic-Resistant Gram-Negative Bacteria Strains with Tetracycline-Conjugated Carbon Nanoparticles. <i>Advanced Biology</i> , 2020, 4, 2000074.	3.0	7
54	ATRP grafting of styrene from benzyl chloride functionalized polysiloxanes: An AFM and TGA study of the Cu(0)/bpy catalyst. <i>European Polymer Journal</i> , 2006, 42, 119-125.	2.6	5

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55	Carbon nanotube air-bubble interactions studied by atomic force microscopy. <i>Advanced Powder Technology</i> , 2009, 20, 257-261.	2.0	5
56	Silica fouling during groundwater RO treatment: The effect of colloids's radius of curvature on dissolution and polymerisation. <i>Water Research</i> , 2020, 168, 115135.	5.3	4
57	Assessing the effect of aromatic residue placement on the α -helical peptide structure and nanofibril formation of 21-mer peptides. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 521-531.	1.7	4
58	Advanced Microscopy of Inorganic Colloids Sampled From Consecutive Stages of RO Filtration. <i>Colloids and Interface Science Communications</i> , 2017, 17, 1-4.	2.0	3
59	Probing Peptide Nanowire Conductivity by THz Nanoscopy. <i>Nanotechnology</i> , 2021, 33, .	1.3	3
60	The effect of ozonation on aggregation of humic substances on mica studied by atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 329, 100-105.	2.3	2
61	Selective laser assisted impairment of reverse osmosis membranes. <i>MethodsX</i> , 2020, 7, 100830.	0.7	2
62	Silica-Silica Nanotribology in Electrolyte Solutions Studied by Atomic Force Microscopy. <i>Journal of the Society of Powder Technology, Japan</i> , 2006, 43, 389-389.	0.0	1
63	Silica-polyamide nanofriction in electrolyte solutions: Insights into scaling of RO membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124206.	2.3	1
64	High-resolution micro-computed tomography reveals cracking in a hydrophobic composite; a new mechanism for mobilisation in controlled release applications. <i>Biosystems Engineering</i> , 2021, 203, 44-54.	1.9	1
65	Insight in to the Initial Stages of Silica Scaling Employing a Scanning Electron and Atomic Force Microscopy Approach. <i>Journal of Membrane Science & Technology</i> , 2016, 06, .	0.5	0
66	Imaging and Characterization of Microbial Electrodes. , 2017, , 525-543.		0