

# Brandy J Johnson

## List of Publications by Year in descending order

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73  
papers

2,309  
citations

257450

24  
h-index

214800

47  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Packaging of Diisopropyl Fluorophosphatase (DFPase) in Bacterial Outer Membrane Vesicles Protects Its Activity at Extreme Temperature. ACS Biomaterials Science and Engineering, 2022, 8, 493-501.	5.2	4
2	Covalently attached liquids as protective coatings. Polymer International, 2021, 70, 701-709.	3.1	5
3	Synthetic Porous Melanin. Journal of the American Chemical Society, 2021, 143, 3094-3103.	13.7	30
4	Allomelanin: A Biopolymer of Intrinsic Microporosity. Journal of the American Chemical Society, 2021, 143, 4005-4016.	13.7	41
5	Field Demonstration of a Distributed Microsensor Network for Chemical Detection. Sensors, 2020, 20, 5424.	3.8	1
6	Nanoporous silicas and their composites. , 2020, , 89-140.		1
7	Development of a Colorimetric Sensor for Autonomous, Networked, Real-Time Application. Sensors, 2020, 20, 5857.	3.8	7
8	Environmental Chemical and Biological Sensing Using Colorimetric Arrays. ECS Meeting Abstracts, 2020, MA2020-01, 2268-2268.	0.0	0
9	Multiplexed, Optical Reflectance Data in Chemical Detection. , 2019, , .		0
10	Environmental Decontamination of a Chemical Warfare Simulant Utilizing a Membrane Vesicle-Encapsulated Phosphotriesterase. ACS Applied Materials & Interfaces, 2018, 10, 15712-15719.	8.0	35
11	Development of a Genetic System for Marinobacter atlanticus CP1 (sp. nov.), a Wax Ester Producing Strain Isolated From an Autotrophic Biocathode. Frontiers in Microbiology, 2018, 9, 3176.	3.5	26
12	Deposition of Porous Sorbents on Fabric Supports. Journal of Visualized Experiments, 2018, , .	0.3	1
13	Reflectance-based detection for long term environmental monitoring. Heliyon, 2017, 3, e00312.	3.2	4
14	Improving Sorbents for Glycerol Capture in Biodiesel Refinement. Materials, 2017, 10, 682.	2.9	5
15	Adsorption and Elution of Nucleic Acids: Mesoporous Materials and Methods. Open Access Journal of Science and Technology, 2017, 05, .	0.2	0
16	Development of a Detection Algorithm for Use with Reflectance-Based, Real-Time Chemical Sensing. Sensors, 2016, 16, 1927.	3.8	4
17	Reflectance-based detection of oxidizers in ambient air. Sensors and Actuators B: Chemical, 2016, 227, 399-402.	7.8	9
18	Porphyryn-modified antimicrobial peptide indicators for detection of bacteria. Sensing and Bio-Sensing Research, 2016, 8, 1-7.	4.2	7

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19	Nanoparticle-Surface Interactions in Geometrical Separation Devices. <i>Chromatography (Basel)</i> , 2015, 2, 567-579.	1.2	0
20	A novel <i>Vibrio</i> beta-glucosidase (LamN) that hydrolyzes the algal storage polysaccharide laminarin. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv087.	2.7	14
21	Electrochemical Detection with Preconcentration: Nitroenergetic Contaminants. <i>Chemosensors</i> , 2014, 2, 131-144.	3.6	1
22	Understanding enzymatic acceleration at nanoparticle interfaces: Approaches and challenges. <i>Nano Today</i> , 2014, 9, 102-131.	11.9	187
23	Adsorption of organophosphates from solution by porous organosilicates: Capillary phase-separation. <i>Microporous and Mesoporous Materials</i> , 2014, 195, 154-160.	4.4	16
24	Contact angles on surfaces using mean field theory: nanodroplets vs. nanoroughness. <i>Nanoscale</i> , 2014, 6, 5260-5269.	5.6	21
25	Miniaturized reflectance devices for chemical sensing. <i>Measurement Science and Technology</i> , 2014, 25, 095101.	2.6	11
26	Self-reporting materials: Dual use for porphyrin-embedded sorbents. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 399-404.	7.8	5
27	Extraction of Perchlorate Using Porous Organosilicate Materials. <i>Materials</i> , 2013, 6, 1403-1419.	2.9	2
28	Toward In Situ Monitoring of Water Contamination by Nitroenergetic Compounds. <i>Sensors</i> , 2012, 12, 14953-14967.	3.8	6
29	Porphyrin-embedded organosilicate materials for ammonia adsorption. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 1252-1260.	0.8	5
30	Removal of phosgene by metalloporphyrin-functionalized porous organosilicates. <i>Catalysis Communications</i> , 2012, 27, 105-108.	3.3	5
31	Proteolytic Activity at Quantum Dot-Conjugates: Kinetic Analysis Reveals Enhanced Enzyme Activity and Localized Interfacial "Hopping". <i>Nano Letters</i> , 2012, 12, 3793-3802.	9.1	122
32	Functionalized organosilicate materials for irritant gas removal. <i>Chemical Engineering Science</i> , 2012, 68, 376-382.	3.8	24
33	Stabilization of RNA through Absorption by Functionalized Mesoporous Silicate Nanospheres. <i>PLoS ONE</i> , 2012, 7, e50356.	2.5	11
34	Solid-phase extraction using hierarchical organosilicates for enhanced detection of nitroenergetic targets. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1404.	2.1	9
35	Multifunctional Compact Zwitterionic Ligands for Preparing Robust Biocompatible Semiconductor Quantum Dots and Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 9480-9496.	13.7	276
36	Porphyrin-Embedded Silicate Materials for Detection of Hydrocarbon Solvents. <i>Sensors</i> , 2011, 11, 886-904.	3.8	26

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37	Iron chelation by cranberry juice and its impact on Escherichia coli growth. <i>BioFactors</i> , 2011, 37, 121-130.	5.4	22
38	Electrochemical detection of TNT with in-line pre-concentration using imprinted diethylbenzene-bridged periodic mesoporous organosilicas. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 737-744.	7.8	26
39	Functional and Functionalized Silicate Materials. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1306, 1.	0.1	0
40	Mesoporous materials in sensing: morphology and functionality at the meso-interface. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1565-1573.	3.7	113
41	The Role of <i>Shewanella oneidensis</i> Outer Surface Structures in Extracellular Electron Transfer. <i>Electroanalysis</i> , 2010, 22, 856-864.	2.9	94
42	Macroporous periodic mesoporous organosilicas with diethylbenzene bridging groups. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 180-188.	4.4	26
43	Fluorescent Silicate Materials for the Detection of Paraoxon. <i>Sensors</i> , 2010, 10, 2315-2331.	3.8	26
44	Genus Vaccinium: Medicine, Cosmetics, and Coatings. <i>Recent Patents on Biotechnology</i> , 2010, 4, 112-124.	0.8	8
45	Macroporous silica for concentration of nitroenergetic targets. <i>Talanta</i> , 2010, 81, 1454-1460.	5.5	15
46	Reduction of Non-Specific Protein Adsorption Using Poly(ethylene) Glycol (PEG) Modified Polyacrylate Hydrogels In Immunoassays for Staphylococcal Enterotoxin B Detection. <i>Sensors</i> , 2009, 9, 645-655.	3.8	67
47	Media acidification by Escherichia coli in the presence of cranberry juice. <i>BMC Research Notes</i> , 2009, 2, 226.	1.4	7
48	Porphyrin-embedded organosilicas for detection and decontamination. , 2009, , .		1
49	Mesoporous Silicate Materials in Sensing. <i>Sensors</i> , 2008, 8, 5202-5228.	3.8	231
50	Immobilized Proanthocyanidins for the Capture of Bacterial Lipopolysaccharides. <i>Analytical Chemistry</i> , 2008, 80, 2113-2117.	6.5	28
51	Impact of cranberry on Escherichia coli cellular surface characteristics. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 992-994.	2.1	23
52	Imprinted Nanoporous Organosilicas for Selective Adsorption of Nitroenergetic Targets. <i>Langmuir</i> , 2008, 24, 9024-9029.	3.5	33
53	New Biological Activities of Plant Proanthocyanidins. <i>ACS Symposium Series</i> , 2008, , 101-114.	0.5	0
54	Binding and Neutralization of Lipopolysaccharides by Plant Proanthocyanidins. <i>Journal of Natural Products</i> , 2007, 70, 1718-1724.	3.0	58

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55	Combination of Immunosensor Detection with Viability Testing and Confirmation Using the Polymerase Chain Reaction and Culture. <i>Analytical Chemistry</i> , 2007, 79, 140-146.	6.5	13
56	Sunlight-catalyzed conversion of cyclic organics with novel mesoporous organosilicas. <i>Catalysis Communications</i> , 2007, 8, 1052-1056.	3.3	18
57	Optical Enzyme-Based Sensors for Reagentless Detection of Chemical Analytes. <i>ACS Symposium Series</i> , 2007, , 57-70.	0.5	1
58	Detection of organics using porphyrin embedded nanoporous organosilicas. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1154-1162.	10.1	86
59	Prevention of Nonspecific Bacterial Cell Adhesion in Immunoassays by Use of Cranberry Juice. <i>Analytical Chemistry</i> , 2006, 78, 853-857.	6.5	45
60	Optical solid-state detection of organophosphates using organophosphorus hydrolase. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1977-1983.	10.1	30
61	Reduction of background signal in automated array biosensors. <i>Measurement Science and Technology</i> , 2005, 16, N29-N31.	2.6	4
62	Optical determination of bacterial exosporium sugars using immobilized porphyrins. <i>IEEE Sensors Journal</i> , 2005, 5, 726-732.	4.7	9
63	Enzyme-Based Detection of Sarin (GB) Using Planar Waveguide Absorbance Spectroscopy. <i>Sensor Letters</i> , 2005, 3, 36-41.	0.4	9
64	Competitive Inhibition of Carbonic Anhydrase by Water Soluble Porphyrins: Use of Carbonic Anhydrase as a CO <sub>2</sub> Sensor. <i>Sensor Letters</i> , 2005, 3, 59-65.	0.4	3
65	Interaction of dipicolinic acid with water-soluble and immobilized porphyrins. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 277-283.	7.8	13
66	Spectrophotometric detection of cholinesterase inhibitors with an integrated acetyl-/butyrylcholinesterase surface. <i>Sensors and Actuators B: Chemical</i> , 2003, 89, 107-111.	7.8	18
67	Detection of cyanide using immobilized porphyrin and myoglobin surfaces. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 128-132.	7.8	34
68	Rapid reagent-less detection of competitive inhibitors of butyrylcholinesterase. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 138-142.	7.8	11
69	Extended lifetime of reagentless detector for multiple inhibitors of acetylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2003, 18, 729-734.	10.1	15
70	Novel optical solid-state glucose sensor using immobilized glucose oxidase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 1069-1071.	2.1	30
71	Reagent-less detection of a competitive inhibitor of immobilized acetylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2002, 17, 361-366.	10.1	21
72	Interaction of monosulfonate tetraphenyl porphyrin, a competitive inhibitor, with acetylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2002, 17, 463-469.	10.1	25

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73	Formation of a New Buried Charge Drives a Large-Amplitude Protein Quake in Photoreceptor Activation. <i>Biochemistry</i> , 2001, 40, 1510-1517.	2.5	225