Glenn R Johnson

List of Publications by Year
in descending order

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46 papers	2,600 citations	186209 28 h-index	223716 46 g-index
62 all docs	62 docs citations	62 times ranked	3690 citing authors

#	Article	IF	Citations
1	Hybrid Antimicrobial Enzyme and Silver Nanoparticle Coatings for Medical Instruments. ACS Applied Materials & Interfaces, 2009, 1, 1553-1560.	4.0	221
2	Lysozyme Catalyzes the Formation of Antimicrobial Silver Nanoparticles. ACS Nano, 2009, 3, 984-994.	7.3	219
3	Entrapment of Enzymes and Carbon Nanotubes in Biologically Synthesized Silica: Glucose Oxidaseâ€Catalyzed Direct Electron Transfer. Small, 2008, 4, 357-364.	5.2	171
4	New materials for biological fuel cells. Materials Today, 2012, 15, 166-173.	8.3	141
5	Molecular Characterization and Substrate Specificity of Nitrobenzene Dioxygenase from Comamonas sp. Strain JS765. Applied and Environmental Microbiology, 2002, 68, 634-641.	1.4	140
6	High electrocatalytic activity of tethered multicopper oxidaseâ€“carbon nanotube conjugates. Chemical Communications, 2010, 46, 6045.	2.2	137
7	The influence of acidity on microbial fuel cells containing Shewanella oneidensis. Biosensors and Bioelectronics, 2008, 24, 900-905.	5.3	108
8	Enzymatic fuel cells: Integrating flow-through anode and air-breathing cathode into a membrane-less biofuel cell design. Biosensors and Bioelectronics, 2011, 27, 132-136.	5.3	104
9	Origins of the 2,4-Dinitrotoluene Pathway. Journal of Bacteriology, 2002, 184, 4219-4232.	1.0	94
10	Impedance spectroscopy as a tool for nonâ€intrusive detection of extracellular mediators in microbial fuel cells. Biotechnology and Bioengineering, 2009, 104, 882-891.	1.7	82
11	Design Parameters for Tuning the Type 1 Cu Multicopper Oxidase Redox Potential: Insight from a Combination of First Principles and Empirical Molecular Dynamics Simulations. Journal of the American Chemical Society, 2011, 133, 4802-4809.	6.6	81
12	Design of Carbon Nanotubeâ€Based Gasâ€Diffusion Cathode for O₂ Reduction by Multicopper Oxidases. Advanced Energy Materials, 2012, 2, 162-168.	10.2	74
13	Encapsulation of Bacterial Spores in Nanoorganized Polyelectrolyte Shells. Langmuir, 2009, 25, 14011-14016.	1.6	71
14	Facile Fabrication of Scalable, Hierarchically Structured Polymer/Carbon Architectures for Bioelectrodes. ACS Applied Materials & Interfaces, 2012, 4, 2082-2087.	4.0	57
15	Surface characterization and direct bioelectrocatalysis of multicopper oxidases. Electrochimica Acta, 2010, 55, 7385-7393.	2.6	55
16	Standardized microbial fuel cell anodes of silica-immobilized Shewanella oneidensis. Chemical Communications, 2010, 46, 6048.	2.2	54
17	Enzyme-encapsulated silica monolayers for rapid functionalization of a gold surface. Colloids and Surfaces B: Biointerfaces, 2007, 58, 28-33.	2.5	50
18	Silica-immobilized enzyme reactors; application to cholinesterase-inhibition studies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 843, 310-316.	1.2	49

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19	Synthesis of Bioinorganic Antimicrobial Peptide Nanoparticles with Potential Therapeutic Properties. Biomacromolecules, 2008, 9, 2487-2494.	2.6	48
20	Probing the molecular structure of antimicrobial peptide-mediated silica condensation using X-ray photoelectron spectroscopy. Journal of Materials Chemistry, 2012, 22, 9875.	6.7	48
21	Bioelectrocatalytic generation of directly readable code: harnessing cathodic current for long-term information relay. Chemical Communications, 2011, 47, 7662.	2.2	46
22	Stabilized Laccases as Heterogeneous Bioelectrocatalysts. ChemCatChem, 2013, 5, 46-60.	1.8	43
23	Enzyme-Modified Buckypaper for Bioelectrocatalysis. Journal of the Electrochemical Society, 2013, 160, G3178-G3182.	1.3	42
24	The utility of Shewanella japonica for microbial fuel cells. Bioresource Technology, 2011, 102, 290-297.	4.8	41
25	Properties of the trihydroxytoluene oxygenase from Burkholderia cepacia R34: an extradiol dioxygenase from the 2,4-dinitrotoluene pathway. Archives of Microbiology, 2000, 173, 86-90.	1.0	36
26	Protein Localization in Silica Nanospheres Derived via Biomimetic Mineralization. Advanced Functional Materials, 2010, 20, 3031-3038.	7.8	36
27	Single pot biovalorization of food waste to ethanol by Geobacillus and Thermoanaerobacter spp.. Renewable Energy, 2020, 155, 1032-1041.	4.3	32
28	Simultaneous hydrolysis and fermentation of unprocessed food waste into ethanol using thermophilic anaerobic bacteria. Bioresource Technology, 2017, 244, 733-740.	4.8	30
29	Biochemical and Genetic Evidence for meta -Ring Cleavage of 2,4,5-Trihydroxytoluene in Burkholderia sp. Strain DNT. Journal of Bacteriology, 1999, 181, 965-972.	1.0	30
30	Power generation from a hybrid biological fuel cell in seawater. Bioresource Technology, 2013, 128, 222-228.	4.8	28
31	Protein Engineering of the 4-Methyl-5-Nitrocatechol Monooxygenase from Burkholderia sp. Strain DNT for Enhanced Degradation of Nitroaromatics. Applied and Environmental Microbiology, 2006, 72, 3933-3939.	1.4	25
32	Biosensor system for continuous monitoring of organophosphate aerosols. Biosensors and Bioelectronics, 2007, 23, 400-406.	5.3	25
33	Bacterial Sunscreen: Layer-by-Layer Deposition of UV-Absorbing Polymers on Whole-Cell Biosensors. Langmuir, 2012, 28, 10521-10527.	1.6	23
34	Hybrid fibers containing protein-templated nanomaterials and biologically active components as antibacterial materials. Materials Science and Engineering C, 2011, 31, 1748-1758.	3.8	22
35	Shewanella frigidimarina microbial fuel cells and the influence of divalent cations on current output. Biosensors and Bioelectronics, 2013, 40, 102-109.	5.3	22
36	A study of the flavin response by Shewanella cultures in carbon-limited environments. RSC Advances, 2012, 2, 10020.	1.7	18

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37	Biodegradation of medium chain hydrocarbons by Acinetobacter venetianus 2AW immobilized to hairâ€based adsorbent mats. Biotechnology Progress, 2011, 27, 1580-1587.	1.3	16
38	Applied Electrode Potential Leads toShewanella oneidensisMR-1 Biofilms Engaged in Direct Electron Transfer. Journal of the Electrochemical Society, 2013, 160, H866-H871.	1.3	13
39	Supramolecular assembly of a biomineralizing antimicrobial peptide in coarse-grained Monte Carlo simulations. Physical Chemistry Chemical Physics, 2011, 13, 1123-1130.	1.3	11
40	Goldâ€Decorated Carbon Composite Electrodes for Enzymatic Oxygen Reduction. Electroanalysis, 2012, 24, 931-937.	1.5	11
41	Enzyme Stabilization via Bio-templated Silicification Reactions. Methods in Molecular Biology, 2011, 679, 85-97.	0.4	7
42	Microbial-enzymatic-hybrid biological fuel cell with optimized growth conditions for Shewanella oneidensis DSP-10. Enzyme and Microbial Technology, 2013, 53, 123-127.	1.6	6
43	Modification of Carbon Nanotube Electrodes with 1-Pyrenebutanoic Acid, Succinimidyl Ester for Enhanced Bioelectrocatalysis. Methods in Molecular Biology, 2013, 1051, 217-228.	0.4	6
44	Synthesis of substituted catechols using nitroarene dioxygenases. Enzyme and Microbial Technology, 2006, 38, 142-147.	1.6	5
45	Enzyme Stabilization via Bio-Templated Silicification Reactions. Methods in Molecular Biology, 2017, 1504, 61-73.	0.4	4
46	Immobilization of Whole Cells by Chemical Vapor Deposition of Silica. Methods in Molecular Biology, 2013, 1051, 301-312.	0.4	3