

# Bastien Doumeche

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

611  
citations

471509

17  
h-index

610901

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper electrodes for bioelectrochemistry: Biosensors and biofuel cells. <i>Biosensors and Bioelectronics</i> , 2016, 76, 145-163.	10.1	87
2	Chemical modifications by ionic liquid-inspired cations improve the activity and the stability of formate dehydrogenase in [MMIm][Me <sub>2</sub> PO <sub>4</sub> ]. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 73-78.	1.8	35
3	Contribution of Dynamic and Static Quenchers for the Study of Protein Conformation in Ionic Liquids by Steady-State Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 413-423.	2.6	34
4	1-Ethyl-3-Methylimidazolium Ethylsulfate/Copper Catalyst for the Enhancement of Glucose Chemiluminescent Detection: Effects on Light Emission and Enzyme Activity. <i>Analytical Chemistry</i> , 2010, 82, 2401-2404.	6.5	33
5	Directed Evolution of a Formate Dehydrogenase for Increased Tolerance to Ionic Liquids Reveals a New Site for Increasing the Stability. <i>ChemBioChem</i> , 2014, 15, 2710-2718.	2.6	33
6	Ionic Liquid-Inspired Cations Covalently Bound to Formate Dehydrogenase Improve its Stability and Activity in Ionic Liquids. <i>ChemCatChem</i> , 2011, 3, 875-882.	3.7	31
7	NADH oxidation on screen-printed electrode modified with a new phenothiazine diazonium salt. <i>Electrochemistry Communications</i> , 2010, 12, 1398-1402.	4.7	26
8	Hexokinase and Glucokinases Are Essential for Fitness and Virulence in the Pathogenic Yeast <i>Candida albicans</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 327.	3.5	26
9	A 96-Well Electrochemical Method for the Screening of Enzymatic Activities. <i>Analytical Chemistry</i> , 2013, 85, 3690-3697.	6.5	25
10	Enzymatic catalysis in gel-stabilized two-phase systems: improvement of the solvent phase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 18, 19-27.	1.8	24
11	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 845-850.	2.2	24
12	New approaches to the visualization, quantification and explanation of acid-induced water loss from Ca-alginate hydrogel beads. <i>Journal of Microencapsulation</i> , 2004, 21, 565-573.	2.8	24
13	Enzymatic Transformations 62. Preparative Scale Synthesis of Enantiopure Glycidyl Acetals using an <i>Aspergillus niger</i> Epoxide Hydrolase-Catalysed Kinetic Resolution. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1948-1957.	4.3	21
14	Micro-contact printing of PEM thin films: effect of line tension and surface energies. <i>RSC Advances</i> , 2015, 5, 51891-51899.	3.6	21
15	Enzyme-Catalyzed Phase Transition of Alginate Gels and Gelatin-Alginate Interpenetrated Networks. <i>Biomacromolecules</i> , 2007, 8, 3613-3618.	5.4	19
16	Rapid electrochemical screening of NAD-dependent dehydrogenases in a 96-well format. <i>Chemical Communications</i> , 2013, 49, 5781.	4.1	18
17	Biomolecules Immobilization Using the Aryl Diazonium Electrografting. <i>Electroanalysis</i> , 2013, 25, 671-684.	2.9	18
18	Assessing chemical cleaning of nanofiltration membranes in a drinking water production plant: a combination of chemical composition analysis and fluorescence microscopy. <i>Water Science and Technology</i> , 2007, 55, 219-225.	2.5	17

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19	Membrane Foulants Characterization in a Drinking Water Production Unit. Food and Bioproducts Processing, 2007, 85, 42-48.	3.6	16
20	Thiamine biosensor based on oxidative trapping of enzyme-substrate intermediate. Biosensors and Bioelectronics, 2017, 87, 850-857.	10.1	14
21	Microcontact printing of polyelectrolyte multilayer thin films: Glass-“viscous flow transition based effects and hydration methods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 271-278.	4.7	12
22	High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. ChemElectroChem, 2017, 4, 957-966.	3.4	11
23	Innovative Electrochemical Screening Allows Transketolase Inhibitors to Be Identified. Analytical Chemistry, 2018, 90, 9241-9248.	6.5	9
24	Hydrolysis of Extracellular ATP by Vascular Smooth Muscle Cells Transdifferentiated into Chondrocytes Generates Pi but Not PPI. International Journal of Molecular Sciences, 2021, 22, 2948.	4.1	8
25	Peroxide detected in imidazolium-based ionic liquids and approaches for reducing its presence in aqueous and non-aqueous environments. RSC Advances, 2015, 5, 23715-23718.	3.6	5
26	Predicting and Understanding the Enzymatic Inhibition of Human Peroxiredoxin 5 by 4-Substituted Pyrocatechols by Combining Funnel Metadynamics, Solution NMR, and Steady-State Kinetics. Biochemistry, 2016, 55, 3469-3480.	2.5	4
27	Towards the preparation of synthetic outer membrane vesicle models with micromolar affinity to wheat germ agglutinin using a dialkyl thioglycoside. Beilstein Journal of Organic Chemistry, 2019, 15, 937-946.	2.2	4
28	Gelatin-Polysaccharide Mixed Biogels: Enzyme-Catalyzed Dynamics and IPNs. Macromolecular Symposia, 2010, 291-292, 337-344.	0.7	2
29	Chapter 12. Enzymatic Assays. RSC Detection Science, 2019, , 331-385.	0.0	1