Edmond Magner

List of Publications by Year
in descending order

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110 papers	6,433 citations	81839 39 h-index	66879 78 g-index
120 all docs	120 docs citations	120 times ranked	7171 citing authors

#	Article	IF	Citations
1	Understanding enzyme immobilisation. Chemical Society Reviews, 2009, 38, 453-468.	18.7	1,124
2	Proteins in Mesoporous Silicates. Angewandte Chemie - International Edition, 2008, 47, 8582-8594.	7.2	622
3	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. Chemical Reviews, 2019, 119, 9509-9558.	23.0	321
4	Immobilisation of enzymes on mesoporous silicate materials. Chemical Society Reviews, 2013, 42, 6213.	18.7	280
5	Mechanistic and Structural Features of Protein Adsorption onto Mesoporous Silicates. Journal of Physical Chemistry B, 2002, 106, 7340-7347.	1.2	256
6	Methodology for the Immobilization of Enzymes onto Mesoporous Materials. Journal of Physical Chemistry B, 2005, 109, 19496-19506.	1.2	176
7	Predicting the performance of molecularly imprinted polymers: Selective extraction of caffeine by molecularly imprinted solid phase extraction. Analytica Chimica Acta, 2006, 566, 60-68.	2.6	135
8	Enzyme immobilisation: fundamentals and application. Chemical Society Reviews, 2013, 42, 6211.	18.7	120
9	Characterization of Î²-Lactoglobulin Fibrillar Assembly Using Atomic Force Microscopy, Polyacrylamide Gel Electrophoresis, and in Situ Fourier Transform Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2010, 58, 3667-3673.	2.4	104
10	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. ACS Applied Materials & Interfaces, 2018, 10, 7107-7116.	4.0	102
11	An overview of dealloyed nanoporous gold in bioelectrochemistry. Bioelectrochemistry, 2016, 109, 117-126.	2.4	100
12	Characterization of Nanoporous Gold Electrodes for Bioelectrochemical Applications. Langmuir, 2012, 28, 2251-2261.	1.6	96
13	Fibrillization of whey proteins improves foaming capacity and foam stability at low protein concentrations. Journal of Food Engineering, 2014, 121, 102-111.	2.7	94
14	Chloroperoxidase on Periodic Mesoporous Organosilanes:Â Immobilization and Reuse. Chemistry of Materials, 2007, 19, 2049-2055.	3.2	92
15	The adsorption characteristics, activity and stability of trypsin onto mesoporous silicates. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 231-239.	1.8	90
16	Influence of pH and ionic strength on the adsorption, leaching and activity of myoglobin immobilized onto ordered mesoporous silicates. Journal of Molecular Catalysis B: Enzymatic, 2007, 49, 61-68.	1.8	89
17	Adsorption and Activity of Proteins onto Mesoporous Silica. Catalysis Letters, 2003, 85, 19-23.	1.4	87
18	A facile aqueous solâ€“gel method for high surface area nanocrystalline CeO2. RSC Advances, 2011, 1, 1794.	1.7	87

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19	Trends in electrochemical biosensorsâ€. Analyst, The, 1998, 123, 1967-1970.	1.7	83
20	Insights into Aldehyde Dehydrogenase Enzymes: A Structural Perspective. Frontiers in Molecular Biosciences, 2021, 8, 659550.	1.6	83
21	Direct electron transfer of bilirubin oxidase (Myrothecium verrucaria) at an unmodified nanoporous gold biocathode. Electrochemistry Communications, 2012, 16, 92-95.	2.3	79
22	A Nanoporous Reactor for Efficient Proteolysis. Chemistry - A European Journal, 2008, 14, 151-157.	1.7	76
23	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. Biosensors and Bioelectronics, 2017, 90, 96-102.	5.3	75
24	Adsorption of Malachite Green and Alizarin Red S Dyes Using Fe-BTC Metal Organic Framework as Adsorbent. International Journal of Molecular Sciences, 2021, 22, 788.	1.8	66
25	Optimisation of production of a domoic acid-binding scFv antibody fragment in Escherichia coli using molecular chaperones and functional immobilisation on a mesoporous silicate support. Protein Expression and Purification, 2007, 52, 194-201.	0.6	63
26	Adhesion of Polyether-Modified Poly(acrylic acid) to Mucin. Langmuir, 2004, 20, 9755-9762.	1.6	62
27	Self-Powered Wireless Carbohydrate/Oxygen Sensitive Biodevice Based on Radio Signal Transmission. PLoS ONE, 2014, 9, e109104.	1.1	62
28	Rapid Inâ€…Situ Immobilization of Enzymes in Metalâ€“Organic Framework Supports under Mild Conditions. ChemCatChem, 2017, 9, 1182-1186.	1.8	62
29	Direct electron transfer of Trametes hirsuta laccase adsorbed at unmodified nanoporous gold electrodes. Bioelectrochemistry, 2013, 91, 15-20.	2.4	60
30	Conductive copolymer-modified carbon fibre microelectrodes: electrode characterisation and electrochemical detection of p-aminophenol. Sensors and Actuators B: Chemical, 2004, 97, 59-66.	4.0	57
31	Enzymatic Biofuel Cells for Self-Powered, Controlled Drug Release. Journal of the American Chemical Society, 2020, 142, 11602-11609.	6.6	55
32	Biosensorsâ€”Recent Advances and Future Challenges in Electrode Materials. Sensors, 2020, 20, 3561.	2.1	55
33	The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. ChemElectroChem, 2017, 4, 905-912.	1.7	53
34	Release of Hydrophobic Compounds from Micellar Solutions of Hydrophobically Modified Polyelectrolytes. Langmuir, 1999, 15, 6792-6798.	1.6	44
35	Lipase Encapsulation onto ZIFâ€8: A Comparison between Biocatalysts Obtained at Low and High Zinc/2â€Methylimidazole Molar Ratio in Aqueous Medium. ChemCatChem, 2018, 10, 1578-1585.	1.8	44
36	The effect of high pressure microfluidization on the structure and length distribution of whey protein fibrils. International Dairy Journal, 2011, 21, 823-830.	1.5	41

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37	Nanoporous Gold Electrodes with Tuneable Pore Sizes for Bioelectrochemical Applications. Electroanalysis, 2016, 28, 2415-2423.	1.5	41
38	Low back-pressure hierarchically structured multichannel microfluidic bioreactors for rapid protein digestion â€“ Proof of concept. Chemical Engineering Journal, 2016, 287, 148-154.	6.6	40
39	Lipase and Laccase Encapsulated on Zeolite Imidazolate Framework: Enzyme Activity and Stability from Voltammetric Measurements. ChemCatChem, 2018, 10, 5425-5433.	1.8	40
40	Electrochemistry of Cytochromecin Aqueous and Mixed Solvent Solutions:â€‰ Thermodynamics, Kinetics, and the Effect of Solvent Dielectric Constant. Langmuir, 2005, 21, 1009-1014.	1.6	39
41	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. Biosensors and Bioelectronics, 2017, 98, 421-427.	5.3	39
42	Development of graphene-based enzymatic biofuel cells: A minireview. Bioelectrochemistry, 2020, 134, 107537.	2.4	36
43	Immobilization of Redox Enzymes on Nanoporous Gold Electrodes: Applications in Biofuel Cells. ChemPlusChem, 2017, 82, 553-560.	1.3	34
44	Direct electron transfer of haemoglobin and myoglobin in methanol and ethanol at didodecyldimethylammonium bromide modified pyrolytic graphite electrodes. Electrochemistry Communications, 2005, 7, 323-327.	2.3	32
45	Tailored adsorption of His₆-tagged protein onto nickel(ii)â€“cyclam grafted mesoporous silica. Chemical Communications, 2010, 46, 1124-1126.	2.2	32
46	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. Analytical and Bioanalytical Chemistry, 2013, 405, 3823-3830.	1.9	32
47	Quantitative TEM analysis of a hexagonal mesoporous silicate structure. Physical Chemistry Chemical Physics, 2006, 8, 3467.	1.3	31
48	Adsorption and Activity of a Domoic Acid Binding Antibody Fragment on Mesoporous Silicates. Journal of Physical Chemistry B, 2006, 110, 18703-18709.	1.2	31
49	Electrodeposition and Characterisation of Copolymers Based on Pyrrole and 3,4-Ethylenedioxythiophene in BMIM BF4 Using a Microcell Configuration. Electrochimica Acta, 2014, 115, 440-448.	2.6	31
50	Characteristics of a Mesoporous Silicate Immobilized Trypsin Bioreactor in Organic Media. Biotechnology Progress, 2006, 22, 1125-1131.	1.3	30
51	Ground-state and excited-state electron-transfer reactions of zinc cytochrome c. The Journal of Physical Chemistry, 1989, 93, 7130-7134.	2.9	29
52	The oxidation of chiral alcohols catalyzed by catalase in organic solvents. Biotechnology and Bioengineering, 1995, 46, 175-179.	1.7	28
53	Diffusion and Release of Solutes in Pluronic-g-poly(acrylic acid) Hydrogels. Langmuir, 2003, 19, 9162-9172.	1.6	28
54	Oxidation of ABTS by Silicate-Immobilized Cytochrome c in Nonaqueous Solutions. Biotechnology Progress, 2008, 19, 1238-1243.	1.3	28

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55	A quasi-solid-state and self-powered biosupercapacitor based on flexible nanoporous gold electrodes. Chemical Communications, 2018, 54, 5823-5826.	2.2	28
56	Comment on â€œDirect Electrochemistry and Electrocatalysis of Heme Proteins Entrapped in Agarose Hydrogel Films in Room-Temperature Ionic Liquidsâ€. Langmuir, 2006, 22, 11453-11455.	1.6	26
57	Specific ion effects on the electrochemical properties of cytochrome c. Physical Chemistry Chemical Physics, 2012, 14, 2875.	1.3	26
58	Measurement of the Adsorption of Cytochrome c onto the External Surface of a Thin-Film Mesoporous Silicate by Ellipsometry. Langmuir, 2004, 20, 532-536.	1.6	24
59	A biofuel cell in non-aqueous solution. Chemical Communications, 2015, 51, 13478-13480.	2.2	24
60	Significant Enhancement of Structural Stability of the Hyperhalophilic ADH from Haloferax volcanii via Entrapment on Metal Organic Framework Support. Langmuir, 2018, 34, 8274-8280.	1.6	23
61	Enzyme immobilization on metal organic frameworks: Laccase from Aspergillus sp. is better adapted to ZIF-zni rather than Fe-BTC. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112147.	2.5	23
62	Comparison of the Redox Properties of Cytochromecin Aqueous and Glycerol Media. Langmuir, 2003, 19, 1282-1286.	1.6	22
63	Transesterification Catalyzed by Trypsin Supported on MCM-41. Catalysis Letters, 2003, 88, 183-186.	1.4	21
64	Room temperature synthesis of platinum nanoparticles in water-in-oil microemulsion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 337, 205-207.	2.3	21
65	Amperometric enzyme electrodes. Journal of Electroanalytical Chemistry, 1992, 325, 83-93.	1.9	20
66	Modification of Mesoporous Silicates for Immobilization of Enzymes. Topics in Catalysis, 2012, 55, 1101-1106.	1.3	20
67	Hofmeister Phenomena in Bioelectrochemistry: The Supporting Electrolyte Affects the Response of Glucose Electrodes. ChemElectroChem, 2015, 2, 659-663.	1.7	20
68	Enzymatic Bioreactors: An Electrochemical Perspective. Catalysts, 2020, 10, 1232.	1.6	20
69	Electrochemically Mediated Reduction of Horseradish Peroxidase by 1,1â€˜-Ferrocenedimethanol in Organic Solvents. Analytical Chemistry, 2005, 77, 1647-1654.	3.2	19
70	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. Solar Energy, 2018, 160, 64-75.	2.9	18
71	Electrolyte effects on enzyme electrochemistry. Current Opinion in Electrochemistry, 2017, 5, 158-164.	2.5	17
72	Potential pulse-assisted immobilization of Myrothecium verrucaria bilirubin oxidase at planar and nanoporous gold electrodes. Journal of Electroanalytical Chemistry, 2018, 812, 194-198.	1.9	16

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73	Use of Polymer Coatings to Enhance the Response of Redoxâ€Polymerâ€Mediated Electrodes. ChemElectroChem, 2019, 6, 1344-1349.	1.7	16
74	Polymer coating for improved redox-polymer-mediated enzyme electrodes: A mini-review. Electrochemistry Communications, 2021, 124, 106931.	2.3	15
75	Electrochemical biosensor for the detection of a sequence of theÂTP53 gene using a methylene blue labelled DNA probe. Electrochimica Acta, 2021, 388, 138642.	2.6	15
76	A continuous fluidic bioreactor utilising electrodeposited silica for lipase immobilisation onto nanoporous gold. Journal of Electroanalytical Chemistry, 2018, 812, 180-185.	1.9	15
77	The oxidation of cytochrome c in nonaqueous solvents. Chemical Communications, 2002, , 816-817.	2.2	14
78	Bioelectrocatalysis of Plant Peroxidases Immobilized on Graphite in Aqueous and Mixed Solvent Media. Electroanalysis, 2005, 17, 460-468.	1.5	14
79	Kinetics of oxidation of hydrogen peroxide at hemin-modified electrodes in nonaqueous solvents. Bioelectrochemistry, 2009, 76, 63-69.	2.4	14
80	Electrochemistry of Nanozeolite-Immobilized Cytochrome c in Aqueous and Nonaqueous Solutions. Langmuir, 2010, 26, 9076-9081.	1.6	14
81	Specific ion effects on the enzymatic activity of alcohol dehydrogenase fromSaccharomyces cerevisiae. Physical Chemistry Chemical Physics, 2020, 22, 6749-6754.	1.3	14
82	Characterization of an organic phase peroxide biosensor based on horseradish peroxidase immobilized in Eastman AQ. Biosensors and Bioelectronics, 2006, 22, 116-123.	5.3	13
83	Reversible increase in the redox potential of cytochrome c in methanol. Chemical Communications, 2009, , 535-537.	2.2	13
84	Comparison of mesoporous silicate supports for the immobilisation and activity of cytochrome c and lipase. Journal of Molecular Catalysis B: Enzymatic, 2014, 108, 82-88.	1.8	12
85	Detection of ferricyanide as a probe for the effect of hematocrit in whole blood biosensors. Analyst, The, 2001, 126, 861-865.	1.7	11
86	Protein immobilisation on perpendicularly aligned gold tipped nanorod assemblies. Chemical Communications, 2011, 47, 2655.	2.2	11
87	Preparation and characterisation of a Ni2+/Co2+-cyclam modified mesoporous cellular foam for the specific immobilisation of His6-alanine racemase. Journal of Molecular Catalysis B: Enzymatic, 2014, 109, 154-160.	1.8	10
88	An amperometric enzyme electrode for bile acids. Analytica Chimica Acta, 1993, 281, 655-661.	2.6	9
89	Antimicrobial enzymatic biofuel cells. Chemical Communications, 2020, 56, 15589-15592.	2.2	9
90	Characterization and electrochromic properties of poly(2,3,5,6-tetrafluoroaniline): Progress towards a transparent conducting polymer. Electrochimica Acta, 2012, 74, 117-122.	2.6	8

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91	Specific Ion Effects on the Mediated Oxidation of NADH. ChemElectroChem, 2017, 4, 3075-3080.	1.7	8
92	Organic Dyes Containing Coplanar Dihexyl-Substituted Dithienosilole Groups for Efficient Dye-Sensitised Solar Cells. International Journal of Photoenergy, 2017, 2017, 1-14.	1.4	8
93	The redox thermodynamics of microperoxidase are dependent on the solvent medium. Chemical Communications, 2003, , 438-439.	2.2	7
94	Characterization of the composition of bovine urine and its effect on the electrochemical analysis of the model mediator, p-aminophenol. Analytica Chimica Acta, 2005, 554, 79-85.	2.6	7
95	The effect of solvent on the catalytic properties of microperoxidase-11. Physical Chemistry Chemical Physics, 2011, 13, 5304.	1.3	7
96	Label free detection of specific protein binding using a microwave sensor. Analyst, The, 2014, 139, 5335-5338.	1.7	7
97	The electrochemical response of microperoxidase in non-aqueous solvents. Electrochimica Acta, 2007, 53, 1134-1139.	2.6	6
98	Proteins in Mesoporous Silicates. ACS Symposium Series, 2008, , 49-60.	0.5	5
99	The spatial and sequential immobilisation of cytochrome c at adjacent electrodes. Chemical Communications, 2013, 49, 8395.	2.2	4
100	Study of ALDH from Thermus thermophilusâ€"Expression, Purification and Characterisation of the Non-Substrate Specific, Thermophilic Enzyme Displaying Both Dehydrogenase and Esterase Activity. Cells, 2021, 10, 3535.	1.8	4
101	Amperometric enzyme electrode for Ca2+. Journal of Electroanalytical Chemistry, 1994, 375, 123-126.	1.9	3
102	Photochemical generation and reactions of heme cation radicals in heme proteins. Biochemical and Biophysical Research Communications, 1989, 159, 472-476.	1.0	2
103	Use of selfâ€assembled monolayers for the sequential and independent immobilisation of enzymes. ChemElectroChem, 0, , .	1.7	2
104	Reversible conformational change of cytochrome c at a modified gold electrode in methanol. Physical Chemistry Chemical Physics, 2010, 12, 10093.	1.3	1
105	Benzene Diazonium Sulfonate Modified Nanoporous Gold Electrodes for the Direct Detection of Copper(II) Ions. ChemElectroChem, 2020, 7, 4625-4632.	1.7	1
106	High Energy Ball Milling and Liquid Crystal Template Method: A Successful Combination for the Preparation of Magnetic Nano-Platforms. Journal of Nanoscience and Nanotechnology, 2021, 21, 2930-2934.	0.9	1
107	The reduction of Fe(methylphenanthroline)33+ by cytochrome c. Journal of Electroanalytical Chemistry, 1992, 323, 369-374.	1.9	0
108	Defocus image contrast in hexagonally-ordered mesoporous material. Physical Chemistry Chemical Physics, 2011, 13, 1189-1200.	1.3	0

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109	Special Issue in Honor of Wolfgang Schuhmann. Electroanalysis, 2016, 28, 2254-2255.	1.5	0
110	Expression, Purification, and in vitro Enzyme Activity Assay of a Recombinant Aldehyde Dehydrogenase from Thermus thermophilus, using an Escherichia coli host. Bio-protocol, 2022, 12, .	0.2	0