Edmond Magner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8159034/publications.pdf

Version: 2024-02-01

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	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
2	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
3	Polymer coating for improved redox-polymer-mediated enzyme electrodes: A mini-review. Electrochemistry Communications, 2021, 124, 106931.	2.3	15
4	Insights into Aldehyde Dehydrogenase Enzymes: A Structural Perspective. Frontiers in Molecular Biosciences, 2021, 8, 659550.	1.6	83
5	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
6	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
7	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
8	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
9	Benzene Diazonium Sulfonate Modified Nanoporous Gold Electrodes for the Direct Detection of Copper(II) Ions. ChemElectroChem, 2020, 7, 4625-4632.	1.7	1
10	Antimicrobial enzymatic biofuel cells. Chemical Communications, 2020, 56, 15589-15592.	2.2	9
11	Enzymatic Bioreactors: An Electrochemical Perspective. Catalysts, 2020, 10, 1232.	1.6	20
12	Enzymatic Biofuel Cells for Self-Powered, Controlled Drug Release. Journal of the American Chemical Society, 2020, 142, 11602-11609.	6.6	55
13	Specific ion effects on the enzymatic activity of alcohol dehydrogenase fromSaccharomyces cerevisiae. Physical Chemistry Chemical Physics, 2020, 22, 6749-6754.	1.3	14
14	Biosensorsâ€"Recent Advances and Future Challenges in Electrode Materials. Sensors, 2020, 20, 3561.	2.1	55
15	Development of graphene-based enzymatic biofuel cells: A minireview. Bioelectrochemistry, 2020, 134, 107537.	2.4	36
16	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. Chemical Reviews, 2019, 119, 9509-9558.	23.0	321
17	Use of Polymer Coatings to Enhance the Response of Redoxâ€Polymerâ€Mediated Electrodes. ChemElectroChem, 2019, 6, 1344-1349.	1.7	16
18	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. ACS Applied Materials & Interfaces, 2018, 10, 7107-7116.	4.0	102

#	Article	IF	Citations
19	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
20	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. Solar Energy, 2018, 160, 64-75.	2.9	18
21	A quasi-solid-state and self-powered biosupercapacitor based on flexible nanoporous gold electrodes. Chemical Communications, 2018, 54, 5823-5826.	2.2	28
22	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
23	Lipase and Laccase Encapsulated on Zeolite Imidazolate Framework: Enzyme Activity and Stability from Voltammetric Measurements. ChemCatChem, 2018, 10, 5425-5433.	1.8	40
24	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
25	A continuous fluidic bioreactor utilising electrodeposited silica for lipase immobilisation onto nanoporous gold. Journal of Electroanalytical Chemistry, 2018, 812, 180-185.	1.9	15
26	Rapid Inâ€…Situ Immobilization of Enzymes in Metalâ€“Organic Framework Supports under Mild Conditions. ChemCatChem, 2017, 9, 1182-1186.	1.8	62
27	The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. ChemElectroChem, 2017, 4, 905-912.	1.7	53
28	Electrolyte effects on enzyme electrochemistry. Current Opinion in Electrochemistry, 2017, 5, 158-164.	2.5	17
29	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. Biosensors and Bioelectronics, 2017, 98, 421-427.	5.3	39
30	Specific Ion Effects on the Mediated Oxidation of NADH. ChemElectroChem, 2017, 4, 3075-3080.	1.7	8
31	Immobilization of Redox Enzymes on Nanoporous Gold Electrodes: Applications in Biofuel Cells. ChemPlusChem, 2017, 82, 553-560.	1.3	34
32	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
33	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
34	Special Issue in Honor of Wolfgang Schuhmann. Electroanalysis, 2016, 28, 2254-2255.	1.5	0
35	Nanoporous Gold Electrodes with Tuneable Pore Sizes for Bioelectrochemical Applications. Electroanalysis, 2016, 28, 2415-2423.	1.5	41
36	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

#	Article	IF	Citations
37	An overview of dealloyed nanoporous gold in bioelectrochemistry. Bioelectrochemistry, 2016, 109, 117-126.	2.4	100
38	Hofmeister Phenomena in Bioelectrochemistry: The Supporting Electrolyte Affects the Response of Glucose Electrodes. ChemElectroChem, 2015, 2, 659-663.	1.7	20
39	A biofuel cell in non-aqueous solution. Chemical Communications, 2015, 51, 13478-13480.	2.2	24
40	Self-Powered Wireless Carbohydrate/Oxygen Sensitive Biodevice Based on Radio Signal Transmission. PLoS ONE, 2014, 9, e109104.	1.1	62
41	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
42	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
43	Label free detection of specific protein binding using a microwave sensor. Analyst, The, 2014, 139, 5335-5338.	1.7	7
44	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
45	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
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	The spatial and sequential immobilisation of cytochrome c at adjacent electrodes. Chemical Communications, 2013, 49, 8395.	2.2	4
48	Direct electron transfer of Trametes hirsuta laccase adsorbed at unmodified nanoporous gold electrodes. Bioelectrochemistry, 2013, 91, 15-20.	2.4	60
49	Immobilisation of enzymes on mesoporous silicate materials. Chemical Society Reviews, 2013, 42, 6213.	18.7	280
50	Enzyme immobilisation: fundamentals and application. Chemical Society Reviews, 2013, 42, 6211.	18.7	120
51	Specific ion effects on the electrochemical properties of cytochrome c. Physical Chemistry Chemical Physics, 2012, 14, 2875.	1.3	26
52	Characterization of Nanoporous Gold Electrodes for Bioelectrochemical Applications. Langmuir, 2012, 28, 2251-2261.	1.6	96
53	Modification of Mesoporous Silicates for Immobilization of Enzymes. Topics in Catalysis, 2012, 55, 1101-1106.	1.3	20
54	Direct electron transfer of bilirubin oxidase (Myrothecium verrucaria) at an unmodified nanoporous gold biocathode. Electrochemistry Communications, 2012, 16, 92-95.	2.3	79

#	Article	IF	Citations
55	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
56	Defocus image contrast in hexagonally-ordered mesoporous material. Physical Chemistry Chemical Physics, 2011, 13, 1189-1200.	1.3	0
57	The effect of solvent on the catalytic properties of microperoxidase-11. Physical Chemistry Chemical Physics, 2011, 13, 5304.	1.3	7
58	A facile aqueous solâ€“gel method for high surface area nanocrystalline CeO2. RSC Advances, 2011, 1, 1794.	1.7	87
59	Protein immobilisation on perpendicularly aligned gold tipped nanorod assemblies. Chemical Communications, 2011, 47, 2655.	2.2	11
60	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
61	Electrochemistry of Nanozeolite-Immobilized Cytochrome c in Aqueous and Nonaqueous Solutions. Langmuir, 2010, 26, 9076-9081.	1.6	14
62	Tailored adsorption of His₆-tagged protein onto nickel(ii)â€“cyclam grafted mesoporous silica. Chemical Communications, 2010, 46, 1124-1126.	2.2	32
63	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
64	Reversible conformational change of cytochrome c at a modified gold electrode in methanol. Physical Chemistry Chemical Physics, 2010, 12, 10093.	1.3	1
65	Kinetics of oxidation of hydrogen peroxide at hemin-modified electrodes in nonaqueous solvents. Bioelectrochemistry, 2009, 76, 63-69.	2.4	14
66	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
67	Understanding enzyme immobilisation. Chemical Society Reviews, 2009, 38, 453-468.	18.7	1,124
68	Reversible increase in the redox potential of cytochrome c in methanol. Chemical Communications, 2009, , 535-537.	2.2	13
69	A Nanoporous Reactor for Efficient Proteolysis. Chemistry - A European Journal, 2008, 14, 151-157.	1.7	76
70	Proteins in Mesoporous Silicates. Angewandte Chemie - International Edition, 2008, 47, 8582-8594.	7.2	622
71	Oxidation of ABTS by Silicate-Immobilized Cytochrome c in Nonaqueous Solutions. Biotechnology Progress, 2008, 19, 1238-1243.	1.3	28
72	Proteins in Mesoporous Silicates. ACS Symposium Series, 2008, , 49-60.	0.5	5

#	Article	IF	Citations
73	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
74	Chloroperoxidase on Periodic Mesoporous Organosilanes:Â Immobilization and Reuse. Chemistry of Materials, 2007, 19, 2049-2055.	3.2	92
75	The electrochemical response of microperoxidase in non-aqueous solvents. Electrochimica Acta, 2007, 53, 1134-1139.	2.6	6
76	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
77	Quantitative TEM analysis of a hexagonal mesoporous silicate structure. Physical Chemistry Chemical Physics, 2006, 8, 3467.	1.3	31
78	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
79	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
80	Characteristics of a Mesoporous Silicate Immobilized Trypsin Bioreactor in Organic Media. Biotechnology Progress, 2006, 22, 1125-1131.	1.3	30
81	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
82	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
83	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
84	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
85	The adsorption characteristics, activity and stability of trypsin onto mesoporous silicates. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 231-239.	1.8	90
86	Bioelectrocatalysis of Plant Peroxidases Immobilized on Graphite in Aqueous and Mixed Solvent Media. Electroanalysis, 2005, 17, 460-468.	1.5	14
87	Electrochemically Mediated Reduction of Horseradish Peroxidase by 1,1â€˜-Ferrocenedimethanol in Organic Solvents. Analytical Chemistry, 2005, 77, 1647-1654.	3.2	19
88	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
89	Methodology for the Immobilization of Enzymes onto Mesoporous Materials. Journal of Physical Chemistry B, 2005, 109, 19496-19506.	1.2	176
90	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

#	Article	IF	Citations
91	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
92	Adhesion of Polyether-Modified Poly(acrylic acid) to Mucin. Langmuir, 2004, 20, 9755-9762.	1.6	62
93	Transesterification Catalyzed by Trypsin Supported on MCM-41. Catalysis Letters, 2003, 88, 183-186.	1.4	21
94	Adsorption and Activity of Proteins onto Mesoporous Silica. Catalysis Letters, 2003, 85, 19-23.	1.4	87
95	Diffusion and Release of Solutes in Pluronic-g-poly(acrylic acid) Hydrogels. Langmuir, 2003, 19, 9162-9172.	1.6	28
96	Comparison of the Redox Properties of Cytochromecin Aqueous and Glycerol Media. Langmuir, 2003, 19, 1282-1286.	1.6	22
97	The redox thermodynamics of microperoxidase are dependent on the solvent medium. Chemical Communications, 2003, , 438-439.	2.2	7
98	Mechanistic and Structural Features of Protein Adsorption onto Mesoporous Silicates. Journal of Physical Chemistry B, 2002, 106, 7340-7347.	1.2	256
99	The oxidation of cytochrome c in nonaqueous solvents. Chemical Communications, 2002, , 816-817.	2.2	14
100	Detection of ferricyanide as a probe for the effect of hematocrit in whole blood biosensors. Analyst, The, 2001, 126, 861-865.	1.7	11
101	Release of Hydrophobic Compounds from Micellar Solutions of Hydrophobically Modified Polyelectrolytes. Langmuir, 1999, 15, 6792-6798.	1.6	44
102	Trends in electrochemical biosensorsâ€. Analyst, The, 1998, 123, 1967-1970.	1.7	83
103	The oxidation of chiral alcohols catalyzed by catalase in organic solvents. Biotechnology and Bioengineering, 1995, 46, 175-179.	1.7	28
104	Amperometric enzyme electrode for Ca2+. Journal of Electroanalytical Chemistry, 1994, 375, 123-126.	1.9	3
105	An amperometric enzyme electrode for bile acids. Analytica Chimica Acta, 1993, 281, 655-661.	2.6	9
106	The reduction of Fe(methylphenanthroline)33+ by cytochrome c. Journal of Electroanalytical Chemistry, 1992, 323, 369-374.	1.9	0
107	Amperometric enzyme electrodes. Journal of Electroanalytical Chemistry, 1992, 325, 83-93.	1.9	20
108	Photochemical generation and reactions of heme cation radicals in heme proteins. Biochemical and Biophysical Research Communications, 1989, 159, 472-476.	1.0	2

#	Article	IF	Citations
109	Ground-state and excited-state electron-transfer reactions of zinc cytochrome c. The Journal of Physical Chemistry, 1989, 93, 7130-7134.	2.9	29
110	Use of selfâ€assembled monolayers for the sequential and independent immobilisation of enzymes. ChemElectroChem, 0, , .	1.7	2