

Elisabeth Lojou

List of Publications by Year in descending order

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77
papers

3,244
citations

117625

34
h-index

161849

54
g-index

80
all docs

80
docs citations

80
times ranked

2597
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemistry of copper efflux oxidase-like multicopper oxidases involved in copper homeostasis. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100919.	4.8	2
2	Effects of interactions between SPEEK or Nafion ionomers and bilirubin oxidase on O ₂ enzymatic reduction. <i>Electrochimica Acta</i> , 2022, 426, 140787.	5.2	0
3	The pH-Induced Selectivity Between Cysteine or Histidine Coordinated Heme in an Artificial Helical Metalloprotein. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3974-3978.	13.8	10
4	The pH-Induced Selectivity Between Cysteine or Histidine Coordinated Heme in an Artificial Helical Metalloprotein. <i>Angewandte Chemie</i> , 2021, 133, 4020-4024.	2.0	2
5	Mutations in the coordination spheres of T1 Cu affect Cu ²⁺ -activation of the laccase from <i>Thermus thermophilus</i> . <i>Biochimie</i> , 2021, 182, 228-237.	2.6	8
6	From Enzyme Stability to Enzymatic Bioelectrode Stabilization Processes. <i>Catalysts</i> , 2021, 11, 497.	3.5	25
7	Enzymatic Bioelectrocatalysis. <i>Catalysts</i> , 2021, 11, 1373.	3.5	4
8	Interplay between Orientation at Electrodes and Copper Activation of <i>Thermus thermophilus</i> Laccase for O ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 1394-1405.	13.7	44
9	Recent advances in surface chemistry of electrodes to promote direct enzymatic bioelectrocatalysis. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 113-121.	4.8	61
10	Implicit Modeling of the Impact of Adsorption on Solid Surfaces for Protein Mechanics and Activity with a Coarse-Grained Representation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8516-8523.	2.6	8
11	Nanosecond Laser-Fabricated Monolayer of Gold Nanoparticles on ITO for Bioelectrocatalysis. <i>Frontiers in Chemistry</i> , 2020, 8, 431.	3.6	11
12	Controllable Display of Sequential Enzymes on Yeast Surface with Enhanced Biocatalytic Activity toward Efficient Enzymatic Biofuel Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 3222-3230.	13.7	58
13	In Situ Fluorescence Tomography Enables a 3D Mapping of Enzymatic O ₂ Reduction at the Electrochemical Interface. <i>Analytical Chemistry</i> , 2020, 92, 7249-7256.	6.5	14
14	Micro- and Nanoscopic Imaging of Enzymatic Electrodes: A Review. <i>ChemElectroChem</i> , 2019, 6, 5524-5546.	3.4	15
15	Enzymatic fuel cells in a microfluidic environment: Status and opportunities. A mini review. <i>Electrochemistry Communications</i> , 2019, 107, 106533.	4.7	30
16	Bacterial Respiratory Chain Diversity Reveals a Cytochrome <i>c</i> Oxidase Reducing O ₂ at Low Overpotentials. <i>Journal of the American Chemical Society</i> , 2019, 141, 11093-11102.	13.7	19
17	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. <i>Chemical Reviews</i> , 2019, 119, 9509-9558.	47.7	321
18	Pore size effect of MgO-templated carbon on enzymatic H ₂ oxidation by the hyperthermophilic hydrogenase from <i>Aquifex aeolicus</i> . <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 221-226.	3.8	27

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19	Electron transfer in an acidophilic bacterium: interaction between a diheme cytochrome and a cupredoxin. <i>Chemical Science</i> , 2018, 9, 4879-4891.	7.4	17
20	Electrostatic-Driven Activity, Loading, Dynamics, and Stability of a Redox Enzyme on Functionalized-Gold Electrodes for Bioelectrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 12004-12014.	11.2	42
21	Direct electron transfer of bilirubin oxidase at a carbon flow-through electrode. <i>Electrochimica Acta</i> , 2018, 283, 88-96.	5.2	13
22	Controlling Redox Enzyme Orientation at Planar Electrodes. <i>Catalysts</i> , 2018, 8, 192.	3.5	78
23	Dihemic c4-type cytochrome acting as a surrogate electron conduit: Artificially interconnecting a photosystem I supercomplex with electrodes. <i>Electrochemistry Communications</i> , 2018, 91, 49-53.	4.7	6
24	Impact of copper ligand mutations on a cupredoxin with a green copper center. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 351-359.	1.0	12
25	Interprotein Electron Transfer between FeSâ€Protein Nanowires and Oxygenâ€Tolerant NiFe Hydrogenase. <i>Angewandte Chemie</i> , 2017, 129, 7882-7886.	2.0	2
26	Interprotein Electron Transfer between FeSâ€Protein Nanowires and Oxygenâ€Tolerant NiFe Hydrogenase. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7774-7778.	13.8	16
27	Mechanism of Chloride Inhibition of Bilirubin Oxidases and Its Dependence on Potential and pH. <i>ACS Catalysis</i> , 2017, 7, 3916-3923.	11.2	44
28	H ₂ /O ₂ enzymatic fuel cells: from proof-of-concept to powerful devices. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1475-1501.	4.9	69
29	Impact of substrate diffusion and enzyme distribution in 3D-porous electrodes: a combined electrochemical and modelling study of a thermostable H ₂ /O ₂ enzymatic fuel cell. <i>Energy and Environmental Science</i> , 2017, 10, 1966-1982.	30.8	93
30	Recent developments in high surface area bioelectrodes for enzymatic fuel cells. <i>Current Opinion in Electrochemistry</i> , 2017, 5, 74-84.	4.8	92
31	Impact of Carbon Nanotube Surface Chemistry on Hydrogen Oxidation by Membraneâ€Bound Oxygenâ€Tolerant Hydrogenases. <i>ChemElectroChem</i> , 2016, 3, 2179-2188.	3.4	23
32	How the Intricate Interactions between Carbon Nanotubes and Two Bilirubin Oxidases Control Direct and Mediated O ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23074-23085.	8.0	91
33	Efficiency of Enzymatic O ₂ Reduction by <i>Myrothecium verrucaria</i> Bilirubin Oxidase Probed by Surface Plasmon Resonance, PMIRRAS, and Electrochemistry. <i>ACS Catalysis</i> , 2016, 6, 5482-5492.	11.2	44
34	A membraneless air-breathing hydrogen biofuel cell based on direct wiring of thermostable enzymes on carbon nanotube electrodes. <i>Chemical Communications</i> , 2015, 51, 7447-7450.	4.1	77
35	A H ₂ /O ₂ enzymatic fuel cell as a sustainable power for a wireless device. <i>Electrochemistry Communications</i> , 2015, 60, 216-220.	4.7	36
36	Hydrogen bioelectrooxidation on gold nanoparticle-based electrodes modified by <i>Aquifex aeolicus</i> hydrogenase: Application to hydrogen/oxygen enzymatic biofuel cells. <i>Bioelectrochemistry</i> , 2015, 106, 47-55.	4.6	37

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37	Spectroscopic Characterization of a Green Copper Site in a Single-Domain Cupredoxin. PLoS ONE, 2014, 9, e98941.	2.5	28
38	Multiscale Simulations Give Insight into the Hydrogen In and Out Pathways of [NiFe]-Hydrogenases from <i>Aquifex aeolicus</i> and <i>Desulfovibrio fructosovorans</i> . Journal of Physical Chemistry B, 2014, 118, 13800-13811.	2.6	26
39	New trends in enzyme immobilization at nanostructured interfaces for efficient electrocatalysis in biofuel cells. Electrochimica Acta, 2014, 126, 104-114.	5.2	118
40	Design of a H ₂ /O ₂ biofuel cell based on thermostable enzymes. Electrochemistry Communications, 2014, 42, 72-74.	4.7	74
41	Carbon nanofiber mesoporous films: efficient platforms for bio-hydrogen oxidation in biofuel cells. Physical Chemistry Chemical Physics, 2014, 16, 1366-1378.	2.8	42
42	Synthesis and enzymatic photo-activity of an O ₂ tolerant hydrogenase@CdSe@CdS quantum rod bioconjugate. Chemical Communications, 2014, 50, 4989-4992.	4.1	17
43	Reconstitution of supramolecular organization involved in energy metabolism at electrochemical interfaces for biosensing and bioenergy production. Analytical and Bioanalytical Chemistry, 2014, 406, 1011-1027.	3.7	18
44	The weak, fluctuating, dipole moment of membrane-bound hydrogenase from <i>Aquifex aeolicus</i> accounts for its adaptability to charged electrodes. Physical Chemistry Chemical Physics, 2014, 16, 11318-11322.	2.8	31
45	Biohydrogen for a New Generation of H ₂ /O ₂ Biofuel Cells: A Sustainable Energy Perspective. ChemElectroChem, 2014, 1, 1724-1750.	3.4	61
46	Light-induced reactivation of O ₂ -tolerant membrane-bound [NiFe] hydrogenase from the hyperthermophilic bacterium <i>Aquifex aeolicus</i> under turnover conditions. Physical Chemistry Chemical Physics, 2013, 15, 16463.	2.8	16
47	Carbon nanoparticulate films as effective scaffolds for mediatorless bioelectrocatalytic hydrogen oxidation. Electrochimica Acta, 2013, 111, 434-440.	5.2	11
48	Exploring Properties of a Hyperthermophilic Membrane-Bound Hydrogenase at Carbon Nanotube Modified Electrodes for a Powerful H ₂ /O ₂ Biofuel Cell. Electroanalysis, 2013, 25, 685-695.	2.9	22
49	Mineral respiration under extreme acidic conditions: from a supramolecular organization to a molecular adaptation in <i>Acidithiobacillus ferrooxidans</i> . Biochemical Society Transactions, 2012, 40, 1324-1329.	3.4	31
50	An innovative powerful and mediatorless H ₂ /O ₂ biofuel cell based on an outstanding bioanode. Electrochemistry Communications, 2012, 23, 25-28.	4.7	71
51	A friendly detergent for H ₂ oxidation by <i>Aquifex aeolicus</i> membrane-bound hydrogenase immobilized on graphite and Self-Assembled-Monolayer-modified gold electrodes. Electrochimica Acta, 2012, 82, 115-125.	5.2	15
52	The Hyperthermophilic Bacterium <i>Aquifex aeolicus</i> . Advances in Microbial Physiology, 2012, 61, 125-194.	2.4	35
53	Electrochemistry, AFM, and PM-IRRAS Spectroscopy of Immobilized Hydrogenase: Role of a Hydrophobic Helix in Enzyme Orientation for Efficient H ₂ Oxidation. Angewandte Chemie - International Edition, 2012, 51, 953-956.	13.8	79
54	Hydrogenases as catalysts for fuel cells: Strategies for efficient immobilization at electrode interfaces. Electrochimica Acta, 2011, 56, 10385-10397.	5.2	95

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55	Hydrogen bioelectrooxidation in ionic liquids: From cytochrome c3 redox behavior to hydrogenase activity. <i>Electrochimica Acta</i> , 2011, 56, 3359-3368.	5.2	18
56	Aquifex aeolicus membrane hydrogenase for hydrogen biooxidation: Role of lipids and physiological partners in enzyme stability and activity. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10778-10789.	7.1	35
57	Membrane-Bound Hydrogenase I from the Hyperthermophilic Bacterium <i>Aquifex aeolicus</i> : Enzyme Activation, Redox Intermediates and Oxygen Tolerance. <i>Journal of the American Chemical Society</i> , 2010, 132, 6991-7004.	13.7	145
58	Stabilization Role of a Phenothiazine Derivative on the Electrocatalytic Oxidation of Hydrogen via <i>Aquifex aeolicus</i> Hydrogenase at Graphite Membrane Electrodes. <i>Langmuir</i> , 2010, 26, 18534-18541.	3.5	34
59	Immobilization of the hyperthermophilic hydrogenase from <i>Aquifex aeolicus</i> bacterium onto gold and carbon nanotube electrodes for efficient H ₂ oxidation. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1275-1288.	2.6	75
60	Biocatalysts for fuel cells: efficient hydrogenase orientation for H ₂ oxidation at electrodes modified with carbon nanotubes. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1157-1167.	2.6	76
61	Hydrogenases from the hyperthermophilic bacterium <i>Aquifex aeolicus</i> : electrocatalysis of the hydrogen production/consumption reactions at carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2005, 577, 79-86.	3.8	14
62	Direct electrochemistry and enzymatic activity of bacterial polyhemic cytochrome c3 incorporated in clay films. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 199-213.	3.8	37
63	The Type I / Type II Cytochrome c3 Complex: an Electron Transfer Link in the Hydrogen-Sulfate Reduction Pathway. <i>Journal of Molecular Biology</i> , 2005, 354, 73-90.	4.2	38
64	Insight into Molecular Stability and Physiological Properties of the Diheme Cytochrome CYC41 from the Acidophilic Bacterium <i>Acidithiobacillus ferrooxidans</i> . <i>Biochemistry</i> , 2005, 44, 6471-6481.	2.5	33
65	Membrane Electrodes for Protein and Enzyme Electrochemistry. <i>Electroanalysis</i> , 2004, 16, 1113-1121.	2.9	37
66	Electrocatalytic Reactions at Hydrogenase-Modified Electrodes and Their Applications to Biosensors: From the Isolated Enzymes to the Whole Cells. <i>Electroanalysis</i> , 2004, 16, 1093-1100.	2.9	22
67	Adsorption of acid proteins onto auto-assembled polyelectrolyte or basic protein films – application to electrocatalytic reactions controlled by hydrogenase. <i>Journal of Electroanalytical Chemistry</i> , 2004, 573, 159-167.	3.8	5
68	Buildup of Polyelectrolyte-Protein Multilayer Assemblies on Gold Electrodes. Role of the Hydrophobic Effect. <i>Langmuir</i> , 2004, 20, 748-755.	3.5	72
69	Electrochemical study of the intermolecular electron transfer to <i>Pseudomonas aeruginosa</i> cytochrome cd1 nitrite reductase. <i>Electrochimica Acta</i> , 2003, 48, 1055-1064.	5.2	28
70	Electrochemical studies on small electron transfer proteins using membrane electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 541, 153-162.	3.8	40
71	Quartz crystal microbalance and voltammetry monitoring for layer-by-layer assembly of cytochrome c3 and poly(ester sulfonic acid) films on gold and silver electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 557, 37-47.	3.8	17
72	Effects of Deletion of Genes Encoding Fe-Only Hydrogenase of <i>Desulfovibrio vulgaris</i> Hildenborough on Hydrogen and Lactate Metabolism. <i>Journal of Bacteriology</i> , 2002, 184, 679-686.	2.2	81

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73	Hydrogenase Activity Control at <i>Desulfovibrio vulgaris</i> Cell-Coated Carbon Electrodes: Biochemical and Chemical Factors Influencing the Mediated Bioelectrocatalysis. <i>Electroanalysis</i> , 2002, 14, 913.	2.9	67
74	From the proteinâ€“polypeptide model system to the interaction between physiological partners using electrochemistry. <i>Journal of Electroanalytical Chemistry</i> , 2002, 523, 150-159.	3.8	10
75	Membrane electrodes can modulate the electrochemical response of redox proteinsâ€“direct electrochemistry of cytochrome c. <i>Journal of Electroanalytical Chemistry</i> , 2000, 485, 71-80.	3.8	41
76	Poly(esterâ€“sulfonic acid): modified carbon electrodes for the electrochemical study of c-type cytochromes. <i>Electrochimica Acta</i> , 1999, 44, 3341-3352.	5.2	21
77	Kinetic studies on the electron transfer between various c-type cytochromes and iron (III) using a voltammetric approach. <i>Electrochimica Acta</i> , 1998, 43, 2005-2013.	5.2	42