

Federico Tasca

List of Publications by Year in descending order

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50
papers

1,886
citations

218677

26
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellobiose Dehydrogenase: A Versatile Catalyst for Electrochemical Applications. <i>ChemPhysChem</i> , 2010, 11, 2674-2697.	2.1	175
2	Cellobiose Dehydrogenase Aryl Diazonium Modified Single Walled Carbon Nanotubes: Enhanced Direct Electron Transfer through a Positively Charged Surface. <i>Analytical Chemistry</i> , 2011, 83, 3042-3049.	6.5	116
3	Direct Electron Transfer at Cellobiose Dehydrogenase Modified Anodes for Biofuel Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9956-9961.	3.1	93
4	Highly Efficient and Versatile Anodes for Biofuel Cells Based on Cellobiose Dehydrogenase from <i>Myriococcum thermophilum</i> . <i>Journal of Physical Chemistry C</i> , 2008, 112, 13668-13673.	3.1	84
5	Increasing the coulombic efficiency of glucose biofuel cell anodes by combination of redox enzymes. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1710-1716.	10.1	84
6	Biomimetic reduction of O ₂ in an acid medium on iron phthalocyanines axially coordinated to pyridine anchored on carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12054-12059.	10.3	76
7	Comparison of Direct and Mediated Electron Transfer for Cellobiose Dehydrogenase from <i>Phanerochaete sordida</i> . <i>Analytical Chemistry</i> , 2009, 81, 2791-2798.	6.5	69
8	A third generation glucose biosensor based on cellobiose dehydrogenase from <i>Corynascus thermophilus</i> and single-walled carbon nanotubes. <i>Analyst</i> , 2011, 136, 2033-2036.	3.5	68
9	Minimally Invasive Glucose Monitoring Using a Highly Porous Gold Microneedles-Based Biosensor: Characterization and Application in Artificial Interstitial Fluid. <i>Catalysts</i> , 2019, 9, 580.	3.5	66
10	Amperometric Biosensors for Detection of Sugars Based on the Electrical Wiring of Different Pyranose Oxidases and Pyranose Dehydrogenases with Osmium Redox Polymer on Graphite Electrodes. <i>Electroanalysis</i> , 2007, 19, 294-302.	2.9	65
11	Wiring of pyranose dehydrogenase with osmium polymers of different redox potentials. <i>Bioelectrochemistry</i> , 2010, 80, 38-42.	4.6	60
12	Biomimicking vitamin B12. A Co phthalocyanine pyridine axial ligand coordinated catalyst for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 265, 547-555.	5.2	56
13	In search of the most active MN4 catalyst for the oxygen reduction reaction. The case of perfluorinated Fe phthalocyanine. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24776-24783.	10.3	52
14	Effect of Deglycosylation of Cellobiose Dehydrogenases on the Enhancement of Direct Electron Transfer with Electrodes. <i>Analytical Chemistry</i> , 2012, 84, 10315-10323.	6.5	51
15	Microneedle-based electrochemical devices for transdermal biosensing: a review. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 42-49.	4.8	51
16	Spectroscopic and Crystallographic Characterization of "Alternative Resting" and "Resting Oxidized" Enzyme Forms of Bilirubin Oxidase: Implications for Activity and Electrochemical Behavior of Multicopper Oxidases. <i>Journal of the American Chemical Society</i> , 2012, 134, 5548-5551.	13.7	50
17	Determination of lactose by a novel third generation biosensor based on a cellobiose dehydrogenase and aryl diazonium modified single wall carbon nanotubes electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 64-69.	7.8	46
18	Comparison of the catalytic activity for O ₂ reduction of Fe and Co MN4 adsorbed on graphite electrodes and on carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20441-20450.	2.8	45

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19	Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. <i>Nanomaterials</i> , 2015, 5, 1995-2006.	4.1	44
20	Oxygen Reduction Reaction at Penta-Coordinated Co Phthalocyanines. <i>Frontiers in Chemistry</i> , 2020, 8, 22.	3.6	37
21	Increasing amperometric biosensor sensitivity by length fractionated single-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2008, 24, 272-278.	10.1	35
22	Direct electrochemistry and bioelectrocatalysis of H ₂ O ₂ reduction of recombinant tobacco peroxidase on graphite. Effect of peroxidase single-point mutation on Ca ²⁺ -modulated catalytic activity. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 112-121.	3.8	32
23	Electrochemical reduction of Cr(VI) in the presence of sodium alginate and its application in water purification. <i>Journal of Environmental Sciences</i> , 2021, 101, 304-312.	6.1	32
24	Linear versus volcano correlations for the electrocatalytic oxidation of hydrazine on graphite electrodes modified with MN ₄ macrocyclic complexes. <i>Electrochimica Acta</i> , 2014, 140, 314-319.	5.2	30
25	Bilirubin Oxidase from <i>Myrothecium verrucaria</i> Physically Absorbed on Graphite Electrodes. Insights into the Alternative Resting Form and the Sources of Activity Loss. <i>PLoS ONE</i> , 2015, 10, e0132181.	2.5	30
26	Tuning the Fe(II)/(I) formal potential of the FeN ₄ catalysts adsorbed on graphite electrodes to the reversible potential of the reaction for maximum activity: Hydrazine oxidation. <i>Electrochemistry Communications</i> , 2013, 30, 34-37.	4.7	28
27	Insights into the electronic structure of Fe penta-coordinated complexes. Spectroscopic examination and electrochemical analysis for the oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23802-23816.	10.3	27
28	Surface Structure of 4-Mercaptopyridine on Au(111): A New Dense Phase. <i>Langmuir</i> , 2017, 33, 9565-9572.	3.5	24
29	Biocide Activity of Green Quercetin-Mediated Synthesized Silver Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 909.	4.1	24
30	Penta-coordinated transition metal macrocycles as electrocatalysts for the oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 15-31.	2.5	22
31	Optimizing the reactivity of surface confined cobalt N ₄ -macrocyclics for the electrocatalytic oxidation of L-cysteine by tuning the Co(II)/(I) formal potential of the catalyst. <i>Electrochimica Acta</i> , 2014, 126, 37-41.	5.2	20
32	Influence of cyano substituents on the electron density and catalytic activity towards the oxygen reduction reaction for iron phthalocyanine. The case for Fe(II) 2,3,9,10,16,17,23,24-octa(cyano)phthalocyanine. <i>Electrochemistry Communications</i> , 2020, 118, 106784.	4.7	20
33	Tryptophan Repressor-Binding Proteins from <i>Escherichia coli</i> and <i>Archaeoglobus fulgidus</i> as New Catalysts for 1,4-Dihydropyridinamide Adenine Dinucleotide-Dependent Amperometric Biosensors and Biofuel Cells. <i>Analytical Chemistry</i> , 2009, 81, 4082-4088.	6.5	19
34	Reactivity indexes for the electrocatalytic oxidation of hydrogen peroxide promoted by several ligand-substituted and unsubstituted Co phthalocyanines adsorbed on graphite. <i>Journal of Electroanalytical Chemistry</i> , 2016, 765, 22-29.	3.8	18
35	Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2â€Oxidases and Osmium Polymers for Biosensor Applications. <i>Electroanalysis</i> , 2018, 30, 1496-1504.	2.9	16
36	Comparison of Direct and Mediated Electron Transfer for Bilirubin Oxidase from <i>Myrothecium Verrucaria</i> . Effects of Inhibitors and Temperature on the Oxygen Reduction Reaction. <i>Catalysts</i> , 2019, 9, 1056.	3.5	14

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37	Evidence of carbon-supported porphyrins pyrolyzed for the oxygen reduction reaction keeping integrity. <i>Scientific Reports</i> , 2022, 12, 8072.	3.3	13
38	Adsorption of 4,4'-bipyridine Axially Coordinated to Iron(II) Phthalocyanine on Au(111) as a New Strategy for Oxygen Reduction Electrocatalysis. <i>ChemPhysChem</i> , 2018, 19, 1599-1604.	2.1	12
39	Imogolite: a nanotubular aluminosilicate: synthesis, derivatives, analogues, and general and biological applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6779-6802.	5.9	12
40	Activity volcano plots for the oxygen reduction reaction using FeN4 complexes: From reported experimental data to the electrochemical meaning. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100923.	4.8	12
41	Spectroscopic and Electrochemical Studies of Imogolite and Fe-Modified Imogolite Nanotubes. <i>Nanomaterials</i> , 2016, 6, 28.	4.1	11
42	Novel Nanoarchitectures Based on Lignin Nanoparticles for Electrochemical Eco-Friendly Biosensing Development. <i>Nanomaterials</i> , 2021, 11, 718.	4.1	9
43	Use of a Thermophile Desiccation-Tolerant Cyanobacterial Culture and Os Redox Polymer for the Preparation of Photocurrent Producing Anodes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 900.	4.1	7
44	Electrodeposition of Cu ₂ O nanostructures with improved semiconductor properties. <i>Cogent Engineering</i> , 2021, 8, 1875534.	2.2	7
45	Gold Nanoparticles/Carbon Nanotubes and Gold Nanoporous as Novel Electrochemical Platforms for L-Ascorbic Acid Detection: Comparative Performance and Application. <i>Chemosensors</i> , 2021, 9, 229.	3.6	7
46	Oxygen reduction reaction on a 68-atom-gold cluster supported on carbon nanotubes: theoretical and experimental analysis. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7529-7539.	5.9	6
47	(Invited) Climbing over the Activity Volcano Correlation by Biomimicking Vitamin B12: A Co Phthalocyanine Pyridine Axial Ligand Coordinated Catalyst for the Reduction of Molecular Oxygen. <i>ECS Transactions</i> , 2018, 85, 111-121.	0.5	4
48	Osmium-Polymer Modified Carbon Nanotube Paste Electrode for Detection of Sucrose and Fructose. <i>Materials Sciences and Applications</i> , 2013, 04, 15-22.	0.4	4
49	Spectroelectrochemical study revealing the redox potential of human monoamine oxidase A. <i>Electrochimica Acta</i> , 2019, 317, 612-617.	5.2	2
50	Effect of Nanostructured Carbon Electrode Surfaces on the Percentage of Adsorbed Redox Enzyme Molecules in Direct Electron Transfer Contact. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0