Victoria Flexer

List of Publications by Year
in descending order

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56	2,551	218592	189801
papers	citations	26	50
		h-index	g-index

58	58	58	2520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of temperature, current density and mass transport during the electrolytic removal of magnesium ions from lithium rich brines. Desalination, 2022, 529, 115652.	4.0	7
2	A strategy to avoid solid formation within the reactor during magnesium and calcium electrolytic removal from lithium-rich brines. Journal of Solid State Electrochemistry, 2022, 26, 1981-1994.	1.2	4
3	Is it possible to recover lithium compounds from complex brines employing electromembrane processes exclusively?. Current Opinion in Electrochemistry, 2022, 35, 101087.	2.5	4
4	Sustainable Electrochemical Extraction of Lithium from Natural Brine: Part II. Flow Reactor. Journal of the Electrochemical Society, 2021, 168, 020518.	1.3	7
5	CO₂ Emission Reduction by Integrating Concentrating Solar Power into Lithium Mining. Energy & Fuels, 2021, 35, 15879-15893.	2.5	3
6	Performance of a double-slope solar still for the concentration of lithium rich brines with concomitant fresh water recovery. Science of the Total Environment, 2021, 791, 148192.	3.9	15
7	One-pot synthesis of hierarchical porous carbons with extended ultramicropores: New prospective materials for supercapacitors. Carbon Trends, 2021, 5, 100110.	1.4	1
8	Boron extraction using selective ion exchange resins enables effective magnesium recovery from lithium rich brines with minimal lithium loss. Separation and Purification Technology, 2021, 275, 119177.	3.9	15
9	Synergistic Combination of TiO₂ and S-PAN for Li-S Batteries with Long-Term Cyclability at High C-Rates. Journal of the Electrochemical Society, 2021, 168, 120536.	1.3	2
10	High nitrogen content carbons: Morphological and chemical changes with synthesis temperature and application in lithiumâ€“sulfur batteries. Electrochimica Acta, 2020, 359, 136942.	2.6	9
11	Membrane electrolysis for the removal of Na+ from brines for the subsequent recovery of lithium salts. Separation and Purification Technology, 2020, 252, 117410.	3.9	16
12	Lithium carbonate recovery from brines using membrane electrolysis. Journal of Membrane Science, 2020, 615, 118416.	4.1	25
13	Lowâ€Temperature Synthesis of a Sulfurâ€Polyacrylonitrile Composite Cathode for Lithiumâ€Sulfur Batteries. ChemistrySelect, 2020, 5, 5465-5472.	0.7	8
14	Potential water recovery during lithium mining from high salinity brines. Science of the Total Environment, 2020, 720, 137523.	3.9	26
15	Purposely Designed Hierarchical Porous Electrodes for High Rate Microbial Electrosynthesis of Acetate from Carbon Dioxide. Accounts of Chemical Research, 2020, 53, 311-321.	7.6	69
16	Electrochemical Flow Reactor for Selective Extraction of Lithium Chloride from Natural Brines. Journal of the Electrochemical Society, 2020, 167, 120522.	1.3	14
17	Membrane electrolysis for the removal of Mg2+ and Ca2+ from lithium rich brines. Water Research, 2019, 154, 117-124.	5.3	63
18	Water Recovery Via Solar Evaporation Systems Coupled to Lithium Mining from Brines. , 2019, , .		0

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19	Reviewâ€"Non-Carbonaceous Materials as Cathodes for Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2018, 165, A6119-A6135.	1.3	28
20	Lithium recovery from brines: A vital raw material for green energies with a potential environmental impact in its mining and processing. Science of the Total Environment, 2018, 639, 1188-1204.	3.9	318
21	Sustainable Electrochemical Extraction of Lithium from Natural Brine for Renewable Energy Storage. Journal of the Electrochemical Society, 2018, 165, A2294-A2302.	1.3	35
22	A First Assessment on the Scale-Up Possibilities of Different Electrochemical Techniques for Lithium Isotopic Enrichment. Industrial & Engineering Chemistry Research, 2018, 57, 11399-11413.	1.8	14
23	Architectures of Enzyme Electrodes Using Redox Mediators. , 2017, , 173-213.		1
24	Fundamentals of Enzymatic Electrochemical Systems. , 2017, , 3-50.		2
25	Nanocarbon-Based Enzymatic Electrodes. , 2017, , 341-379.		1
26	Selfâ€healing silane coatings of cerium salt activated nanoparticles. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 693-701.	0.8	17
27	Biologically Induced Hydrogen Production Drives High Rate/High Efficiency Microbial Electrosynthesis of Acetate from Carbon Dioxide. ChemElectroChem, 2016, 3, 581-591.	1.7	122
28	SR-XRD in situ monitoring of copper-IUD corrosion in simulated uterine fluid using a portable spectroelectrochemical cell. Bioelectrochemistry, 2016, 110, 41-45.	2.4	2
29	Microcellular Electrode Material for Microbial Bioelectrochemical Systems Synthesized by Hydrothermal Carbonization of Biomass Derived Precursors. ACS Sustainable Chemistry and Engineering, 2016, 4, 2508-2516.	3.2	20
30	Bringing High-Rate, CO₂-Based Microbial Electrosynthesis Closer to Practical Implementation through Improved Electrode Design and Operating Conditions. Environmental Science & Technology, 2016, 50, 1982-1989.	4.6	141
31	A New Strategy for Corrosion Inhibition Coatings for Lead Heritage Metal Objects. Electrochimica Acta, 2015, 179, 441-451.	2.6	6
32	High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide. Environmental Science & Technology, 2015, 49, 13566-13574.	4.6	241
33	Integrative Chemistry-Based Generation of Novel Three Dimensional Macrocellular Carbonaceous Biofuel Cell. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	0
34	Effects of ceria nanoparticle concentrations on the morphology and corrosion resistance of ceriumâ€"silane hybrid coatings on electro-galvanized steel substrates. Materials Chemistry and Physics, 2014, 145, 450-460.	2.0	34
35	A novel carbon nanotube modified scaffold as an efficient biocathode material for improved microbial electrosynthesis. Journal of Materials Chemistry A, 2014, 2, 13093-13102.	5.2	236
36	Wired Pyrroloquinoline Quinone Soluble Glucose Dehydrogenase Enzyme Electrodes Operating at Unprecedented Low Redox Potential. Analytical Chemistry, 2014, 86, 2465-2473.	3.2	45

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37	Assessment of copper corrosion from frameless copper IUDs after long-term in utero residence. Contraception, 2014, 90, 454-459.	0.8	9
38	The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. Energy and Environmental Science, 2013, 6, 1291.	15.6	132
39	Plasma treatment of electrodes significantly enhances the development of anodic electrochemically active biofilms. Electrochimica Acta, 2013, 108, 566-574.	2.6	35
40	A novel three-dimensional macrocellular carbonaceous biofuel cell. Physical Chemistry Chemical Physics, 2013, 15, 6437.	1.3	40
41	Removal of the X-ray Contrast Media Diatrizoate by Electrochemical Reduction and Oxidation. Environmental Science & Technology, 2013, 47, 13686-13694.	4.6	45
42	Highly Efficient Porous Enzyme-based Carbonaceous Electrodes Obtained Through Integrative Chemistry. Materials Research Society Symposia Proceedings, 2013, 1491, 64.	0.1	0
43	Porous mediator-free enzyme carbonaceous electrodes obtained through Integrative Chemistry for biofuel cells. Energy and Environmental Science, 2011, 4, 2097-2106.	15.6	83
44	Efficient Direct Electron Transfer of PQQ-glucose Dehydrogenase on Carbon Cryogel Electrodes at Neutral pH. Analytical Chemistry, 2011, 83, 5721-5727.	3.2	92
45	From Dynamic Measurements of Photosynthesis in a Living Plant to Sunlight Transformation into Electricity. Analytical Chemistry, 2010, 82, 1444-1449.	3.2	61
46	Effect of Degree of Glycosylation on Charge of Glucose Oxidase and Redox Hydrogel Catalytic Efficiency. ChemPhysChem, 2010, 11, 2795-2797.	1.0	28
47	The application of the relaxation and simplex method to the analysis of data for glucose electrodes based on glucose oxidase immobilised in an osmium redox polymer. Journal of Electroanalytical Chemistry, 2010, 646, 24-32.	1.9	26
48	Effects of the nature and charge of the topmost layer in layer by layer self assembled amperometric enzyme electrodes. Physical Chemistry Chemical Physics, 2010, 12, 10033.	1.3	24
49	Designing a highly active soluble PQQâ€“glucose dehydrogenase for efficient glucose biosensors and biofuel cells. Biochemical and Biophysical Research Communications, 2010, 402, 750-754.	1.0	36
50	Designing highly efficient enzyme-based carbonaceous foams electrodes for biofuel cells. Energy and Environmental Science, 2010, 3, 1302.	15.6	68
51	Oxygen cathode based on a layer-by-layer self-assembled laccase and osmium redox mediator. Electrochimica Acta, 2009, 54, 1970-1977.	2.6	44
52	Redox molecule based SERS sensors. Physical Chemistry Chemical Physics, 2009, 11, 7412.	1.3	21
53	Relaxation and Simplex mathematical algorithms applied to the study of steady-state electrochemical responses of immobilized enzyme biosensors: Comparison with experiments. Journal of Electroanalytical Chemistry, 2008, 616, 87-98.	1.9	31
54	Extracting kinetic parameters for homogeneous [Os(bpy)2ClPyCOOH]+ mediated enzyme reactions from cyclic voltammetry and simulations. Bioelectrochemistry, 2008, 74, 201-209.	2.4	36

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55	Wired-Enzyme Coreâ"Shell Au Nanoparticle Biosensor. Journal of the American Chemical Society, 2008, 130, 12690-12697.	6.6	116
56	Structure and Thickness Dependence of â€œMolecular Wiringâ€•in Nanostructured Enzyme Multilayers. Analytical Chemistry, 2006, 78, 399-407.	3.2	57