

Armand Bettelheim

List of Publications by Year in descending order

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docs citations

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times ranked

1298
citing authors

#	ARTICLE	IF	CITATIONS
1	A bilayer coating as an oxygen-transfer cascade for the electrochemical ambient conversion of methane to oxygenates. <i>Chemical Communications</i> , 2022, 58, 3154-3157.	2.2	3
2	Room-temperature conversion of the photoelectrochemical oxidation of methane into electricity at nanostructured TiO ₂ . <i>Sustainable Energy and Fuels</i> , 2021, 5, 127-134.	2.5	10
3	Oligomers Intermediates in Between Two New Distinct Homonuclear Uranium(IV) DOTP Complexes**. <i>Chemistry - A European Journal</i> , 2021, 27, 8264-8267.	1.7	3
4	Charge Capacitance and Hydrogen Storage Capacity of Drop Cast and Electrodeposited Reduced Graphene Oxide Coatings. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090506.	1.3	3
5	Enhancement of Electrocatalytic CO ₂ Reduction to Methane by CoTMPyP when Hosted in a 3D Covalent Graphene Framework. <i>ACS Applied Energy Materials</i> , 2021, 4, 10033-10041.	2.5	9
6	Tuning the electrocatalytic 2- and 4-electron reduction of oxygen by electrodeposited hybrid graphene-Co/Mn porphyrin coatings. <i>Electrochimica Acta</i> , 2020, 356, 136792.	2.6	6
7	DFT and Empirical Considerations on Electrocatalytic Water/Carbon Dioxide Reduction by CoTMPyP in Neutral Aqueous Solutions**. <i>ChemPhysChem</i> , 2020, 21, 2644-2650.	1.0	1
8	On the Aqueous Chemistry of the U ^{IV} –DOTA Complex. <i>Chemistry - A European Journal</i> , 2020, 26, 3390-3403.	1.7	12
9	Different Pathways for CO ₂ Electrocatalytic Reduction by Confined CoTMPyP in Electrodeposited Reduced Graphene Oxide. <i>ACS Applied Energy Materials</i> , 2019, 2, 8434-8440.	2.5	16
10	Enhancement of photoelectrochemical organics degradation and power generation by electrodeposited coatings of g-C ₃ N ₄ and graphene on TiO ₂ nanotube arrays. <i>Nanoscale Advances</i> , 2019, 1, 4128-4136.	2.2	8
11	Growth Behavior of Copper and Platinum Nanoparticles in an Imidazolium Based Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5026-H5030.	1.3	5
12	Structural Characterization of Am(III)- and Pu(III)-DOTA Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 12248-12259.	1.9	22
13	Graphene Oxide Sheets Combine into Conductive Coatings by Direct Oxidative Electropolymerization. <i>Scientific Reports</i> , 2017, 7, 4987.	1.6	9
14	Electropolymerization as a new route to g-C ₃ N ₄ coatings on TiO ₂ nanotubes for solar applications. <i>RSC Advances</i> , 2016, 6, 87314-87318.	1.7	10
15	Spectroscopic, electrochemical, and structural aspects of the Ce(IV)/Ce(III) DOTA redox couple chemistry in aqueous solutions. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2895-2907.	0.8	10
16	Electrocatalytic Activity towards Oxygen Reduction of Electropolymerized Cobalt Porphyrin Doped with Ionic-Liquid-Functionalized Graphene. <i>Journal of the Electrochemical Society</i> , 2015, 162, H481-H485.	1.3	6
17	Chemical bias of electrochemical and photoelectrochemical water splitting using a hydrogel separator. <i>Electrochemistry Communications</i> , 2015, 60, 97-99.	2.3	5
18	Structures Self-Assembled from Anionic Graphene and Cationic Manganese Porphyrin: Characterization and Application in Artificial Photosynthesis. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2288-2295.	1.0	21

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19	Spectral and Electrochemical Properties of Lanthanide Thiocyanate Complexes Ionic as Liquid Components. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3477-3482.	1.0	9
20	Carbon Aerogels with Ionic Liquid Stabilized Pt and PtRu Nanoparticles as Electrocatalytic Fuel Cell Electrodes. <i>ECS Electrochemistry Letters</i> , 2013, 2, F55-F59.	1.9	5
21	Ion-Conductive and Transparent Resorcinol-Formaldehyde Hydrogels for Electrochemical and Solar Applications. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, F1.	2.2	9
22	Macrocellular iron foams: characterization and facile conversion into water splitting photoanodes. <i>RSC Advances</i> , 2012, 2, 9376.	1.7	4
23	Evidence for the Formation of Cobalt Porphyrin-Quinone Complexes Stabilized at Carbon-Based Surfaces Toward the Design of Efficient Non-Noble-Metal Oxygen Reduction Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 398-401.	2.1	40
24	Mediation at High Potentials for the Reduction of Oxygen to Water by Cobalt Porphyrin-Quinone Systems in Porous Aerogel Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2010, 157, B27.	1.3	30
25	Electrocatalytic oxygen reduction by Co(III) porphyrins incorporated in aerogel carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2008, 621, 91-96.	1.9	39
26	Interaction of Fe(III) Tetrakis(4-methylpyridinium)porphyrin with Sodium Dodecyl Sulfate at Submicellar Concentrations. <i>Langmuir</i> , 2008, 24, 11514-11517.	1.6	11
27	FUEL CELLS AND IONICALLY CONDUCTIVE MEMBRANES: AN OVERVIEW. <i>Reviews in Chemical Engineering</i> , 2007, 23, .	2.3	3
28	Tautomerism in N-confused porphyrins as the basis of a novel fiber-optic humidity sensor. <i>Journal of Porphyrins and Phthalocyanines</i> , 2006, 10, 63-66.	0.4	12
29	Electrocrystallization of calcium carbonate on carbon-based electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2005, 575, 195-202.	1.9	31
30	Removal of Phenol and Derivatives from Aqueous Solutions by Electropolymerization in Aerogel Carbon Electrodes. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, E42.	2.2	7
31	Preparation of a Novel Pd Hydride Electrode Based on Polymer Embedded Nanosized Pd Incorporated in Porous Carbon Substrate. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A484.	2.2	5
32	Electropolymerized porphyrin films as methanol barriers in direct methanol fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2004, 571, 265-272.	1.9	18
33	Use of electropolymerized films of macrocyclic compounds in direct methanol fuel cell components. <i>Journal of Power Sources</i> , 2004, 130, 158-162.	4.0	18
34	Spectroscopic and electrochemical characterization of solutions and films of a new redox couple: Co(II)/Co(III) N-confused porphyrin. <i>Inorganic Chemistry Communication</i> , 2004, 7, 1238-1241.	1.8	19
35	Effect of Organic Additives on Electrochemical Surface Precipitation and Polymorphism of CaCO ₃ . <i>Chemical Engineering and Technology</i> , 2003, 26, 341-346.	0.9	9
36	Surface Processes Characterization for the Corrosion of Copper in Borate Solutions. <i>Journal of the Electrochemical Society</i> , 2002, 149, B314.	1.3	16

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37	Solid-State Electrochemical Probing of Atmospheric and Galvanic Corrosion. Journal of the Electrochemical Society, 2002, 149, B328.	1.3	1
38	Electroprecipitation of Ag(II)/Ag(III) tetraphenylsulfonate porphyrin and electrocatalytic behavior of the films. Electrochemistry Communications, 2002, 4, 862-865.	2.3	11
39	Spectroscopic and electrochemical characterization of the interaction of nitrogen monoxide and cobalt tetrasulfonated phthalocyanine in aqueous solutions and surfactant films. Inorganica Chimica Acta, 2000, 305, 53-60.	1.2	21
40	Effect of Sodium Dodecylsulfate on the Corrosion Behavior of Copper in Borate Aqueous Solutions. Electrochemical and Solid-State Letters, 1999, 3, 183.	2.2	1
41	Ligation and Mediated Oxidation of Nitrogen Monoxide by Nickel(II) Tetrasulfonated Phthalocyanine. Journal of the Electrochemical Society, 1997, 144, L228-L230.	1.3	16
42	Reflection-FTIR spectroelectrochemistry using ionically conductive polymer films: electrochemical preparation and spectroscopic characterization of some metal hydrides. Journal of Electroanalytical Chemistry, 1996, 405, 251-254.	1.9	3
43	Electrochemical response to H ₂ , O ₂ , CO ₂ and NH ₃ of a solid-state cell based on a cation- or anion-exchange membrane serving as a solid polymer electrolyte. Analytica Chimica Acta, 1995, 310, 139-144.	2.6	31
44	Spectroscopic and electrochemical response to nitrogen monoxide of a cationic iron porphyrin immobilized in nafion-coated electrodes or membranes. Journal of the Chemical Society Chemical Communications, 1994, , 619.	2.0	30
45	Cobalt phthalocyanine as a mediator for the electrooxidation of glucose oxidase at glucose electrodes. Analytica Chimica Acta, 1993, 281, 327-333.	2.6	26
46	Plasma-nitrided $\hat{1}\pm\hat{1}^2$ Ti alloy: layer characterization and mechanical properties modification. Surface and Coatings Technology, 1993, 57, 19-29.	2.2	34
47	Electrocatalytic properties of chemically polymerized films of cobalt, iron and manganese tetrakis(o-aminophenyl)porphyrins. Journal of Electroanalytical Chemistry, 1993, 359, 209-221.	1.9	39
48	Use of Nafion as a Solid Polymer Electrolyte for the Electroreduction of Tungsten (VI) Fluoride. Journal of the Electrochemical Society, 1992, 139, 132-136.	1.3	6
49	Conductivity response of porous electrodes supported on perfluorosulfonic acid membranes to acidic gas mixtures. Analytical Chemistry, 1991, 63, 2724-2727.	3.2	10
50	Mediated electron transfer for the electrooxidation of glucose oxidase by manganese tetrakis(o-aminophenyl) porphyrin. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 307, 293-298.	0.3	10
51	Aging Effects of Epoxy Resin on Joining of Aluminum Plates. Journal of Adhesion, 1991, 36, 109-124.	1.8	10
52	Dioxygen reduction and hydrogen peroxide dismutation using electropolymerized bilayers of cobalt + manganese tetrakis(o-aminophenyl)porphyrins. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 281, 147-161.	0.3	16
53	A New Electrolytic Solution for the Direct Electrodeposition of Copper on Aluminum and Other Chemically Reactive Substrates. Journal of the Electrochemical Society, 1990, 137, 3151-3153.	1.3	10
54	Dioxygen fixation by a cobalt(II)â€™ammoniacal complex and its electroreduction in a nafion coated solid-state three-electrode cell. Journal of the Chemical Society Chemical Communications, 1990, , 521-522.	2.0	2

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55	Application of Nafion as a Polymer Solid Electrolyte for Voltammetry in the Absence of a Contacting Electrolyte Solution. Journal of the Electrochemical Society, 1989, 136, 3863-3867.	1.3	26
56	Electrochemistry of various substituted aminophenyl iron porphyrins. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 266, 93-108.	0.3	28
57	Electrochemistry of various substituted aminophenyl iron porphyrins. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 266, 109-123.	0.3	22
58	Redox and electrocatalytic properties towards dioxygen reduction of ruthenium tetra(ortho-aminophenyl)porphyrin complexes with various axial ligands. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 246, 139-154.	0.3	18
59	A New Polymer Ag/AgCl Reference Electrode for Electrochemistry with No Contacting Electrolyte Solution. Journal of the Electrochemical Society, 1988, 135, 1041-1042.	1.3	6
60	Application of a polymer solid electrolyte for the vapor-phase electrocatalysis of dioxygen reduction by some cobalt porphyrins. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 238, 259-276.	0.3	25
61	Electrocatalysis of dioxygen reduction in aqueous acid and base by multimolecular layer films of electropolymerized cobalt tetra(o-aminophenyl)porphyrin. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 217, 271-286.	0.3	91
62	Electrochemical polymerization of amino-, pyrrole-, and hydroxy-substituted tetraphenylporphyrins. Inorganic Chemistry, 1987, 26, 1009-1017.	1.9	387
63	Electrochemistry of the manganese(III)–manganese(IV) 5,10,15,20-tetrakis(p-trimethylammonio)phenyl)porphyrinate couple. Journal of the Chemical Society Dalton Transactions, 1986, , 2297-2301.	1.1	9
64	Electrochemical Behavior of Water in Immobilized Salt Electrolytes: II. Cyclic Voltammetry. Journal of the Electrochemical Society, 1985, 132, 1588-1591.	1.3	3
65	Electrodeposition of Ruthenium from a LiCl–KCl Melt. Journal of the Electrochemical Society, 1985, 132, 1775-1776.	1.3	2
66	Redox properties of copper tetra(4-N,N-dimethylaminium)porphyrin. Electrochemical and spectral studies. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 1577.	1.0	1
67	Electrocatalytic reduction of dioxygen by cobalt tetra(4-N,N-dimethylaminium)porphyrin. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 1139.	1.0	23
68	Electrochemical Behavior of Water in Immobilized Salt Electrolytes: I. Electrical Conductivity and Thermal Measurements. Journal of the Electrochemical Society, 1984, 131, 2531-2535.	1.3	4
69	Electrochemical and spectroscopic properties of manganese tetra(4-N,N-dimethylaminium)porphyrin. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1555.	1.0	21
70	Catalysis of Oxygen Cathodic Reduction by Adsorbed Iron(III)–Tetra(N,N-dimethylaminium)Porphyrin on Glassy Carbon Electrodes. Journal of the Electrochemical Society, 1982, 129, 2247-2250.	1.3	38
71	Electroanalysis of oxygen reduction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 110, 93-102.	0.3	97
72	Electrocatalysis of oxygen reduction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1979, 99, 391-397.	0.3	81

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73	Rotating-ring-disk analysis of iron tetra(N-methylpyridyl)porphyrin in electrocatalysis of oxygen. Analytical Chemistry, 1979, 51, 2257-2260.	3.2	78
74	Catalysis of Oxygen Cathodic Reduction in Cobalt Ammoniacal Solutions. Journal of the Electrochemical Society, 1977, 124, 531-532.	1.3	3
75	Homogeneous catalysis of cathodic reduction of oxygen in copper-cystamine aqueous solutions. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 582.	1.0	8
76	Electroreduction of cobalt-amino peroxo complexes. Part 1. The reduction of oxygen in the Co(II)+ ammonia system. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 143.	1.0	1
77	Electroreduction of cobalt-amino peroxo complexes. Part 2. The reduction of oxygen in the Co(II)-ethylenediamine and Co(II)-triethylenetetramine systems. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 150.	1.0	0