

Ali Eftekhari

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142
papers

7,076
citations

44
h-index

82
g-index

156
ext. papers

8,089
ext. citations

5.6
avg, IF

7.69
L-index

#	Paper	IF	Citations
142	Potassium Secondary Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4404-4419	9.5	590
141	Polyaniline supercapacitors. <i>Journal of Power Sources</i> , 2017 , 347, 86-107	8.9	514
140	Electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11053-11077	6.7	438
139	Potassium secondary cell based on Prussian blue cathode. <i>Journal of Power Sources</i> , 2004 , 126, 221-228	8.9	399
138	Molybdenum diselenide (MoSe ₂) for energy storage, catalysis, and optoelectronics. <i>Applied Materials Today</i> , 2017 , 8, 1-17	6.6	228
137	Tungsten dichalcogenides (WS ₂ , WSe ₂ , and WTe ₂): materials chemistry and applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18299-18325	13	197
136	The mechanism of ultrafast supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2866-2876	13	185
135	Cathode materials for lithium-sulfur batteries: a practical perspective. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17734-17776	13	167
134	Supercapacitors utilising ionic liquids. <i>Energy Storage Materials</i> , 2017 , 9, 47-69	19.4	163
133	The rise of lithium-selenium batteries. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 14-29	5.8	159
132	Electrochemical hydrogen storage: Opportunities for fuel storage, batteries, fuel cells, and supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 25143-25165	6.7	156
131	Sodium-ion batteries: New opportunities beyond energy storage by lithium. <i>Journal of Power Sources</i> , 2018 , 395, 336-348	8.9	140
130	LiFePO ₄ /C nanocomposites for lithium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 343, 395-411	8.9	138
129	Low voltage anode materials for lithium-ion batteries. <i>Energy Storage Materials</i> , 2017 , 7, 157-180	19.4	133
128	Energy efficiency: a critically important but neglected factor in battery research. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 2053-2060	5.8	131
127	Ordered mesoporous carbon and its applications for electrochemical energy storage and conversion. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1001-1027	7.8	130
126	Different roles of ionic liquids in lithium batteries. <i>Journal of Power Sources</i> , 2016 , 334, 221-239	8.9	127

125	Synthesis and properties of polymerized ionic liquids. <i>European Polymer Journal</i> , 2017 , 90, 245-272	5.2	126
124	Lithium Batteries for Electric Vehicles: From Economy to Research Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5602-5613	8.3	111
123	Photoelectrode nanomaterials for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11078-11109	6.7	103
122	High-Energy Aqueous Lithium Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801156	21.8	97
121	Tailoring pseudocapacitive materials from a mechanistic perspective. <i>Materials Today Energy</i> , 2017 , 6, 211-229	7	86
120	The necessity of structural irregularities for the chemical applications of graphene. <i>Materials Today Chemistry</i> , 2017 , 4, 1-16	6.2	79
119	Lithium-Ion Batteries with High Rate Capabilities. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2799-2816	8.3	77
118	Supercapacitors: Electrical Characteristics, Modeling, Applications, and Future Trends. <i>IEEE Access</i> , 2019 , 7, 50869-50896	3.5	74
117	Surface Modification of Thin-Film Based LiCoPO ₄ 5 V Cathode with Metal Oxide. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1456	3.9	73
116	On the Theoretical Capacity/Energy of Lithium Batteries and Their Counterparts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3684-3687	8.3	73
115	In pursuit of catalytic cathodes for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7710-7731	13	71
114	pH sensor based on deposited film of lead oxide on aluminum substrate electrode. <i>Sensors and Actuators B: Chemical</i> , 2003 , 88, 234-238	8.5	69
113	Tuning the electrocatalysts for oxygen evolution reaction. <i>Materials Today Energy</i> , 2017 , 5, 37-57	7	68
112	Electrochemical behavior of thin-film LiMn ₂ O ₄ electrode in aqueous media. <i>Electrochimica Acta</i> , 2001 , 47, 495-499	6.7	67
111	High-yield synthesis of carbon nanotubes using a water-soluble catalyst support in catalytic chemical vapor deposition. <i>Carbon</i> , 2006 , 44, 1343-1345	10.4	59
110	Aluminum oxide as a multi-function agent for improving battery performance of LiMn ₂ O ₄ cathode. <i>Solid State Ionics</i> , 2004 , 167, 237-242	3.3	58
109	2008 ,		57
108	Ordered mesoporous materials for lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2017 , 243, 355-369	5.3	48

107	Electrochemical Deposition and Modification of LiFePO ₄ for the Preparation of Cathode with Enhanced Battery Performance. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1816	3.9	48
106	Glycerol biosensor based on glycerol dehydrogenase incorporated into polyaniline modified aluminum electrode using hexacyanoferrate as mediator. <i>Sensors and Actuators B: Chemical</i> , 2001 , 80, 283-289	8.5	48
105	Aluminum electrode modified with manganese hexacyanoferrate as a chemical sensor for hydrogen peroxide. <i>Talanta</i> , 2001 , 55, 395-402	6.2	48
104	2010 ,		47
103	Electrochemical behavior and electrocatalytic activity of a zinc hexacyanoferrate film directly modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 537, 59-66	4.1	47
102	Room-Temperature Performance of Poly(Ethylene Ether Carbonate)-Based Solid Polymer Electrolytes for All-Solid-State Lithium Batteries. <i>Scientific Reports</i> , 2017 , 7, 17482	4.9	46
101	Metal-organic framework/carbon nanotube-coated polyethylene separator for improving the cycling performance of lithium-sulfur cells. <i>Electrochimica Acta</i> , 2018 , 283, 1291-1299	6.7	45
100	Initiating electropolymerization on graphene sheets in graphite oxide structure. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2204-2213	2.5	45
99	Aluminum as a suitable substrate for the deposition of conducting polymers: application to polyaniline and enzyme-modified electrode. <i>Synthetic Metals</i> , 2001 , 125, 295-300	3.6	45
98	Electrochemical energy storage by aluminum as a lightweight and cheap anode/charge carrier. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1246-1264	5.8	44
97	Flower-like bundles of ZnO nanosheets as an intermediate between hollow nanosphere and nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 437, 446-450	5.3	44
96	Curly Graphene with Specious Interlayers Displaying Superior Capacity for Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25845-25851	3.8	43
95	Surface Diffusion and Adsorption in Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3692-3701	8.3	40
94	Electrochemical performance and cyclability of LiFe _{0.5} Mn _{1.5} O ₄ as a 5 V cathode material for lithium batteries. <i>Journal of Power Sources</i> , 2003 , 124, 182-190	8.9	39
93	From pseudocapacitive redox to intermediary adsorption in oxygen evolution reaction. <i>Materials Today Chemistry</i> , 2017 , 4, 117-132	6.2	38
92	Improving Cu metallization of Si by electrodeposition under centrifugal fields. <i>Microelectronic Engineering</i> , 2003 , 69, 17-25	2.5	33
91	A high-voltage solid-state secondary cell based on chromium hexacyanomellates. <i>Journal of Power Sources</i> , 2003 , 117, 249-254	8.9	32
90	Electrocatalysis and Amperometric Detection of Hydrogen Peroxide at an Aluminum Microelectrode Modified with Cobalt Hexacyanoferrate Film. <i>Mikrochimica Acta</i> , 2003 , 141, 15-21	5.8	30

89	On the fractal study of LiMn ₂ O ₄ electrode surface. <i>Electrochimica Acta</i> , 2003 , 48, 2831-2839	6.7	30
88	Fabrication of 5 V lithium rechargeable micro-battery. <i>Journal of Power Sources</i> , 2004 , 132, 240-243	8.9	29
87	Electropolymerization of aniline onto passivated substrate and its application for preparation of enzyme-modified electrode. <i>Synthetic Metals</i> , 2004 , 145, 211-216	3.6	29
86	On the mechanism of microporous carbon supercapacitors. <i>Materials Today Chemistry</i> , 2018 , 7, 1-4	6.2	27
85	Graphene oxide membranes for electrochemical energy storage and conversion. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2307-2326	6.7	26
84	Fabrication of all-solid-state thin-film secondary cells using hexacyanometallate-based electrode materials. <i>Journal of Power Sources</i> , 2004 , 132, 291-295	8.9	26
83	Ni-Doped SnO ₂ Nanoparticles for Sensing and Photocatalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5823-5836	5.8	26
82	LiMn ₂ O ₄ electrode prepared by gold-titanium codeposition with improved cyclability. <i>Journal of Power Sources</i> , 2004 , 130, 260-265	8.9	24
81	Improving Cyclability of 5 V Cathodes by Electrochemical Surface Modification. <i>Chemistry Letters</i> , 2004 , 33, 616-617	1.7	24
80	Electrochemical polymerization of aniline in phosphoric acid. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3304-3311	2.5	23
79	Influence of atomic-scale irregularities in fractal analysis of electrode surfaces. <i>Applied Surface Science</i> , 2005 , 239, 311-319	6.7	23
78	Polymerization of Aniline through Simultaneous Chemical and Electrochemical Routes. <i>Polymer Journal</i> , 2006 , 38, 651-658	2.7	22
77	3D Deposition of LiMn ₂ O ₄ : enhancement of lithium battery performance. <i>Solid State Ionics</i> , 2003 , 161, 41-47	3.3	21
76	Carbon nanotube-assisted electrodeposition. Part I: Battery performance of manganese oxide films electrodeposited at low current densities. <i>Journal of Power Sources</i> , 2015 , 274, 1306-1314	8.9	19
75	Metrics for Fast Supercapacitors as Energy Storage Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3688-3691	8.3	19
74	Catalytic Chemical Vapor Deposition Preparation of Multi-wall Carbon Nanotubes with Cone-like Heads. <i>Chemistry Letters</i> , 2006 , 35, 138-139	1.7	18
73	Soft magnetic CoNiFe films electrodeposited under centrifugal forces. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 1183-1187	3	18
72	Fractal study of LiMn ₂ O ₄ film electrode surface for lithium batteries application. <i>Electrochimica Acta</i> , 2002 , 47, 4347-4350	6.7	18

71	Effect of Na diffusion on the formation of fibrous microcrystals of manganese oxide. <i>Materials Research Bulletin</i> , 2005 , 40, 2205-2211	5.1	18
70	Carbon nanotube-assisted electrodeposition. Part II: Superior pseudo-capacitive behavior of manganese oxide film electrodeposited at high current densities. <i>Journal of Power Sources</i> , 2015 , 274, 1315-1321	8.9	17
69	Polyaniline Nanostructures 2010 , 19-98		17
68	Significant Effect of Dopant Size on Nanoscale Fractal Structure of Polypyrrole Film. <i>Polymer Journal</i> , 2006 , 38, 781-785	2.7	17
67	Fractal Dimension of Electrochemical Reactions. <i>Journal of the Electrochemical Society</i> , 2004 , 151, E291	3.9	17
66	Template-free preparation of bunches of aligned manganese oxide nanowires. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 628-631	3	17
65	Effect of centrifugal fields on the solid-state film formation as applied to gold electrodeposits. <i>Mendeleev Communications</i> , 2002 , 12, 122-123	1.9	16
64	Fractal studies of Au films deposited on liquid liquid and liquid gas interfaces. <i>Applied Surface Science</i> , 2004 , 227, 331-340	6.7	15
63	Fractal study of NiCrMo alloy for dental applications: effect of beryllium. <i>Applied Surface Science</i> , 2003 , 220, 343-348	6.7	15
62	Electrochemical properties of LiMn ₂ O ₄ cathode material doped with an actinide. <i>Journal of Alloys and Compounds</i> , 2006 , 424, 225-230	5.7	14
61	Effects of metal source in metal substitution of lithium manganese oxide spinel. <i>Electrochimica Acta</i> , 2006 , 52, 1491-1498	6.7	14
60	SILVER HEXACYANOFERRATE(II) FILM DIRECT MODIFIED ELECTRODE AS AMPEROMETRIC SENSOR FOR THE DETERMINATION OF SILVER. <i>Analytical Letters</i> , 2001 , 34, 541-551	2.2	14
59	Fractal geometry of texts: An initial application to the works of Shakespeare. <i>Journal of Quantitative Linguistics</i> , 2006 , 13, 177-193	0.5	13
58	Mixed-Metals Codeposition as a Novel Method for the Preparation of LiMn ₂ O ₄ Electrodes with Reduced Capacity Fades. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A966	3.9	13
57	Enhanced stability and conductivity of polypyrrole film prepared electrochemically in the presence of centrifugal forces. <i>Synthetic Metals</i> , 2004 , 142, 305-308	3.6	13
56	Electrodeposition of smooth and adherent film of polypyrrole on lead electrode. <i>Progress in Organic Coatings</i> , 2006 , 57, 371-375	4.8	12
55	Enhanced stability of hexacyanoferrate-based modified electrodes prepared under centrifugal fields. <i>Mendeleev Communications</i> , 2002 , 12, 206-207	1.9	12
54	Electrochemical Behavior of Gallium Hexacyanoferrate Film Directly Modified Electrode in a Cool Environment. <i>Journal of the Electrochemical Society</i> , 2004 , 151, E297	3.9	11

53	Electrochemical technique for the determination of fractal dimension of dental surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 32, 375-381	6	11
52	Metallic-Based Nanocomposites of Conductive Polymers 2010 , 289-340		10
51	On the Onsager's phenomenological coefficient of Prussian blue electrochemical redox system. <i>Chemical Physics Letters</i> , 2003 , 374, 164-169	2.5	10
50	Synthesis of nanostructured large particles of polyaniline. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 6060-6063	2.9	9
49	Electrochemical Behavior and Enhanced Stability of a Thin Film of Prussian Blue Deposited under Magnetic Field. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003 , 217, 1369-1386	3.1	9
48	Silver-Selective Electrode Based on a Direct Modified Electrode Silver Hexacyanoferrate(II) Film. <i>Analytical Letters</i> , 2000 , 33, 2873-2882	2.2	9
47	Electropolymerization of Aniline on Plastically Deformed Pd Surface: Structure at Micro- and Nano-Scale. <i>Polymer Journal</i> , 2006 , 38, 329-334	2.7	8
46	A new anode material for inorganic-based rechargeable batteries. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1251-1253		8
45	Variations of phenomenological coefficient of an electrochemical redox system in the course of cycling and aging. <i>Chemical Physics Letters</i> , 2003 , 378, 89-94	2.5	8
44	Comments on spurious potential dependence of diffusion coefficients in Li ⁺ insertion electrodes measured with PITT. <i>Electrochimica Acta</i> , 2005 , 50, 2541-2543	6.7	8
43	Quantitative surface analysis of plastic deformation of Pd electrodes in nanoscale. <i>Applied Surface Science</i> , 2005 , 242, 82-87	6.7	8
42	CHEMICAL SENSOR BASED ON SILVER/SILVER SULFIDE MICROELECTRODE. <i>Analytical Letters</i> , 2001 , 34, 1087-1095	2.2	8
41	Galvanodynamic synthesis of polyaniline: A flexible method for the deposition of electroactive materials. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 717-718, 110-118	4.1	7
40	Bundled nanofibers of V-doped LiMn ₂ O ₄ spinel. <i>Solid State Communications</i> , 2006 , 140, 391-394	1.6	7
39	Deposition of stable electroactive films of polynuclear cyanides onto silicon surface. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 558, 75-82	4.1	7
38	Morphological effects of Ni nanostructures on electropolymerization of aniline. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1579-1586	2.9	6
37	Comment on A Linear Actuation of Polymeric Nanofibrous Bundle for Artificial Muscles. <i>Chemistry of Materials</i> , 2010 , 22, 2689-2690	9.6	6
36	Nanostructured Conductive Polymers by Electrospinning 2010 , 161-207		6

35	Composites Based on Conducting Polymers and Carbon Nanotubes 2010 , 209-260		5
34	Inorganic-Based Nanocomposites of Conductive Polymers 2010 , 261-288		5
33	Comments on Li diffusion in LiNi _{0.5} Mn _{0.5} O ₂ thin film electrodes prepared by pulsed laser deposition by Xia et al.. <i>Electrochimica Acta</i> , 2010 , 55, 3434	6.7	5
32	Electrochemical Properties of Lanthanum Hexacyanoferrate Particles Immobilized onto Electrode Surface by Au-Codeposition Method. <i>Electroanalysis</i> , 2004 , 16, 1324-1329	3	5
31	Silver Hexacyanoferrate Film Directly Modified Electrode as a Potentiometric Sensor for Potassium Ion. <i>Analytical Letters</i> , 2003 , 36, 263-276	2.2	5
30	A simple synthesis of manganese oxide nanowires. <i>Mendeleev Communications</i> , 2005 , 15, 75-76	1.9	5
29	Nanostructured Conductive Polymers as Biomaterials 2010 , 707-736		4
28	Spectroscopy of Nanostructured Conducting Polymers 2010 , 341-373		4
27	Electrochemical synthesis of polypyrrole macro-tubes on aluminum substrate. <i>Synthetic Metals</i> , 2006 , 156, 643-647	3.6	4
26	Pulsed electrodeposition of soft magnetic CoNiFe films under centrifugal forces. <i>Philosophical Magazine Letters</i> , 2004 , 84, 587-592	1	4
25	Comment on Carbon nanowalls as material for electrochemical transducers [Appl. Phys. Lett. 95, 014104 (2009)]. <i>Applied Physics Letters</i> , 2010 , 96, 126102	3-4	3
24	Electroactive Conducting Polymers for the Protection of Metals against Corrosion: from Micro- to Nanostructured Films 2010 , 631-680		3
23	Time-dependency of impedance spectroscopic studies of oscillatory systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 332, 382-388	2-3	3
22	Erratum to Fractal study of LiMn ₂ O ₄ film electrode surface for lithium batteries application [Electrochimica Acta, 2002 , 48, 290]	6.7	3
21	Diffusion of electrolytes in solution under gravitational forces. <i>Chemical Physics Letters</i> , 2003 , 381, 427-433		3
20	Structural Sensitivity of Carbon Monoxide Hydrogenation by Nano-Structured Iron Catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 5856-64	1-3	3
19	History of Conductive Polymers 2010 , 1-17		2
18	Nanostructured Conducting Polymers for (Electro)chemical Sensors 2010 , 563-598		2

17	Nanostructural Aspects of Conducting-Polymer Actuators 2010 , 599-630		2
16	Inspecting plastic deformation of Pd by means of fractal geometry. <i>Physica B: Condensed Matter</i> , 2007 , 387, 92-97	2.8	2
15	LIMITATIONS OF ELECTROCHEMICAL METHODS FOR SURFACE ANALYSIS AT SMALL FRACTALITY SCALES. <i>Surface Review and Letters</i> , 2006 , 13, 809-814	1.1	2
14	Auto-Release of Fe(CN) ₆ ⁴⁻ from Conductive Polymer at a Sensing System. <i>Chemical Engineering Communications</i> , 2005 , 192, 897-907	2.2	2
13	Single Conducting-Polymer Nanowires 2010 , 411-466		1
12	Conductive Polymer Micro- and Nanocontainers 2010 , 467-501		1
11	Charge Transfer and Charge Separation in Conjugated Polymer Solar Cells 2010 , 531-562		1
10	Nanoscale Inhomogeneity of Conducting-Polymer-Based Materials 2010 , 99-159		1
9	Rectangular structure of manganese oxide nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 122, 110-114	3.1	1
8	OSCILLATORY BEHAVIOR AS ELECTROCHEMICAL FLUCTUATIONS DURING THE TRANSPASSIVE ELECTRODISSOLUTION OF COPPER IN PHOSPHORIC ACID. <i>Fluctuation and Noise Letters</i> , 2001 , 01, L171-L180	1.2	1
7	Magnetic and Electron Transport Behaviors of Conductive-Polymer Nanocomposites 2010 , 503-529		
6	Electrocatalysis by Nanostructured Conducting Polymers 2010 , 681-705		
5	Nanocomposites of Polymers Made Conductive by Nanofillers 2010 , 737-763		
4	Atomic Force Microscopy Study of Conductive Polymers 2010 , 375-410		
3	A PRACTICAL APPROACH FOR SENSING SURFACE NANOSTRUCTURES IN ELECTROCHEMICAL EXPERIMENTS. <i>Surface Review and Letters</i> , 2006 , 13, 703-710	1.1	
2	EFFECTS OF NANOSCALE SURFACE DEFECTS ON ELECTROPOLYMERIZATION. <i>Surface Review and Letters</i> , 2006 , 13, 753-758	1.1	
1	Complicated surface structure of flower-like bunches of LiV _{0.1} Mn _{1.9} O ₄ nanofibers. <i>Journal of Experimental Nanoscience</i> , 2006 , 1, 211-219	1.9	