List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hydrogen Sensors and Switches from Electrodeposited Palladium Mesowire Arrays. Science, 2001, 293, 2227-2231.	6.0	1,310
2	Microstructural Effects on Charge-Storage Properties in MnO <sub>2</sub> -Based Electrochemical Supercapacitors. ACS Applied Materials & amp; Interfaces, 2009, 1, 1130-1139.	4.0	561
3	Long-term cycling behavior of asymmetric activated carbon/MnO2 aqueous electrochemical supercapacitor. Journal of Power Sources, 2007, 173, 633-641.	4.0	453
4	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. Advanced Energy Materials, 2017, 7, 1601301.	10.2	334
5	Electrochemical Synthesis for the Control of γ-Fe2O3 Nanoparticle Size. Morphology, Microstructure, and Magnetic Behavior. Chemistry of Materials, 1999, 11, 141-147.	3.2	330
6	Biredox ionic liquids with solid-like redox density in the liquid state for high-energy supercapacitors. Nature Materials, 2017, 16, 446-453.	13.3	303
7	Palladium Mesowire Arrays for Fast Hydrogen Sensors and Hydrogen-Actuated Switches. Analytical Chemistry, 2002, 74, 1546-1553.	3.2	234
8	Noble and Coinage Metal Nanowires by Electrochemical Step Edge Decoration. Journal of Physical Chemistry B, 2002, 106, 11407-11411.	1.2	184
9	Activated-phosphorus as new electrode material for Li-ion batteries. Electrochemistry Communications, 2011, 13, 346-349.	2.3	164
10	Modifications of MXene layers for supercapacitors. Nano Energy, 2020, 73, 104734.	8.2	149
11	Size-selective electrodeposition of meso-scale metal particles: a general method. Electrochimica Acta, 2001, 47, 671-677.	2.6	147
12	Metal Nanowire Arrays by Electrodeposition. ChemPhysChem, 2003, 4, 131-138.	1.0	136
13	"Water-in-Salt―for Supercapacitors: A Compromise between Voltage, Power Density, Energy Density and Stability. Journal of the Electrochemical Society, 2018, 165, A657-A663.	1.3	127
14	In situ crystallographic investigations of charge storage mechanisms in MnO2-based electrochemical capacitors. Journal of Power Sources, 2012, 206, 454-462.	4.0	124
15	Graphene-like carbide derived carbon for high-power supercapacitors. Nano Energy, 2015, 12, 197-206.	8.2	114
16	Sensors from electrodeposited metal nanowires. Surface and Interface Analysis, 2002, 34, 409-412.	0.8	113
17	Air stable copper phosphide (Cu3P): a possible negative electrode material for lithium batteries. Electrochemistry Communications, 2004, 6, 263-267.	2.3	101
18	Cu3P as anode material for lithium ion battery: powder morphology and electrochemical performances. Journal of Power Sources, 2004, 136, 80-87.	4.0	84

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19	Structural in Situ Study of the Thermal Behavior of Manganese Dioxide Materials: Toward Selected Electrode Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2010, 2, 3493-3505.	4.0	82
20	Electronic devices from electrodeposited metal nanowires. Microelectronic Engineering, 2002, 61-62, 555-561.	1.1	81
21	Ordered mesoporous silicon carbide-derived carbon for high-power supercapacitors. Electrochemistry Communications, 2013, 34, 109-112.	2.3	75
22	New nanocomposite material as supercapacitor electrode prepared via restacking of Ni-Mn LDH and MnO2 nanosheets. Electrochimica Acta, 2017, 247, 1072-1079.	2.6	75
23	Electrochemical Reactivity of Cu[sub 3]P with Lithium. Journal of the Electrochemical Society, 2004, 151, A2074.	1.3	74
24	Nanocrystalline FeWO4 as a pseudocapacitive electrode material for high volumetric energy density supercapacitors operated in an aqueous electrolyte. Electrochemistry Communications, 2015, 57, 61-64.	2.3	66
25	Electrochemical Lithium Insertion in Zn3P2 Zinc Phosphide. Chemistry of Materials, 2005, 17, 6761-6771.	3.2	64
26	Redox-Induced Structural Change in Anode Materials Based on Tetrahedral (MPn4)x- Transition Metal Pnictides. Chemistry of Materials, 2004, 16, 1002-1013.	3.2	63
27	A single nanotrench in a palladium microwire for hydrogen detection. Nanotechnology, 2008, 19, 125502.	1.3	61
28	Transport Properties of Li-TFSI Water-in-Salt Electrolytes. Journal of Physical Chemistry B, 2019, 123, 10514-10521.	1.2	60
29	Electrochemical study of aqueous asymmetric FeWO4/MnO2 supercapacitor. Journal of Power Sources, 2016, 326, 695-701.	4.0	59
30	Mesoporous carbon–manganese oxide composite as negative electrode material for supercapacitors. Microporous and Mesoporous Materials, 2008, 110, 167-176.	2.2	58
31	MnO2-coated Ni nanorods: Enhanced high rate behavior in pseudo-capacitive supercapacitor. Electrochimica Acta, 2010, 55, 7454-7459.	2.6	55
32	Competitive Salt Precipitation/Dissolution During Freeâ€Water Reduction in Waterâ€inâ€Salt Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 15913-15917.	7.2	52
33	The LixMPn4 phases (M/Pn = Ti/P, V/As): new negative electrode materials for lithium ion rechargeable batteries. Electrochimica Acta, 2004, 49, 2325-2332.	2.6	49
34	The transition in hydrogen sensing behavior in noncontinuous palladium films. Applied Physics Letters, 2010, 97, .	1.5	43
35	"Beaded―Bimetallic Nanowires: Wiring Nanoparticles of Metal 1 Using Nanowires of Metal 2. Advanced Materials, 2003, 15, 396-399.	11.1	41
36	Manganese oxide nanocomposites: preparation and some electrochemical properties. Journal of Physics and Chemistry of Solids, 2004, 65, 235-239.	1.9	40

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37	On chip MnO2-based 3D micro-supercapacitors with ultra-high areal energy density. Energy Storage Materials, 2021, 38, 520-527.	9.5	39
38	Conformational preferences and protonation sequence of myo-inositol hexaphosphate in aqueous solution; potentiometric and multinuclear magnetic resonance studies. Journal of the Chemical Society Dalton Transactions, 1995, , 575.	1.1	38
39	Electrochemical preparation and characterization of Birnessite-type layered manganese oxide films. Journal of Physics and Chemistry of Solids, 2006, 67, 1351-1354.	1.9	38
40	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure–Property Relationships of Graphene Oxide–Iron Oxide Nanocomposites. Chemistry - A European Journal, 2015, 21, 12465-12474.	1.7	38
41	Highly ordered palladium nanodot patterns for full concentration range hydrogen sensing. Nanoscale, 2012, 4, 1964.	2.8	35
42	Biredox ionic liquids: new opportunities toward high performance supercapacitors. Faraday Discussions, 2018, 206, 393-404.	1.6	33
43	Fast and robust hydrogen sensors based on discontinuous palladium films on polyimide, fabricated on a wafer scale. Nanotechnology, 2010, 21, 505501.	1.3	32
44	Microstructural and Morphological Effects on Charge Storage Properties in MnO <sub>2</sub> -Carbon Nanofibers Based Supercapacitors. Journal of the Electrochemical Society, 2013, 160, A2315-A2321.	1.3	32
45	Biredox ionic liquids: electrochemical investigation and impact of ion size on electron transfer. Electrochimica Acta, 2016, 206, 513-523.	2.6	32
46	Improving the Volumetric Energy Density of Supercapacitors. Electrochimica Acta, 2016, 206, 458-463.	2.6	31
47	Transparent electrochemical capacitor based on electrodeposited MnO2 thin film electrodes and gel-type electrolyte. Electrochemistry Communications, 2009, 11, 1259-1261.	2.3	30
48	Zn, Ti and Si nanowires by electrodeposition in ionic liquid. Electrochemistry Communications, 2011, 13, 1252-1255.	2.3	30
49	Oxidation pathways towards Si amorphous layers or nanocrystalline powders as Li-ion batteries anodes. Materials for Renewable and Sustainable Energy, 2014, 3, 1.	1.5	29
50	Inorganic perchlorato complexes. Coordination Chemistry Reviews, 1998, 178-180, 865-902.	9.5	27
51	Size-Selective Growth of Nanoscale Tetrathiafulvalene Bromide Crystallites on Platinum Particles. Advanced Materials, 2001, 13, 1567.	11.1	26
52	Anode materials for lithium ion batteries in the Li-Zn-P system. Ionics, 2005, 11, 66-75.	1.2	26
53	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. ChemElectroChem, 2014, 1, 747-754.	1.7	26
54	MnO2 as ink material for the fabrication of supercapacitor electrodes. Electrochimica Acta, 2015, 152, 520-529.	2.6	26

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55	Faradaic contributions in the supercapacitive charge storage mechanisms of manganese dioxides. Electrochimica Acta, 2016, 206, 479-489.	2.6	25
56	Materials for Electrochemical Capacitors. , 2017, , 495-561.		25
57	Electrochemical lithium insertion in Zn3P2 zinc phosphide. Journal of Physics and Chemistry of Solids, 2006, 67, 1233-1237.	1.9	23
58	Competitive Salt Precipitation/Dissolution During Freeâ€Water Reduction in Waterâ€inâ€Salt Electrolyte. Angewandte Chemie, 2020, 132, 16047-16051.	1.6	23
59	Size and strain dependent activity of Ni nano and micro particles for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2013, 38, 11695-11708.	3.8	21
60	Investigating Mechanisms Underlying Elevated-Temperature-Induced Capacity Fading of Aqueous MnO <sub>2</sub> Polymorph Supercapacitors: Cryptomelane and Birnessite. Journal of the Electrochemical Society, 2015, 162, A5106-A5114.	1.3	21
61	Synthesis and structural analysis of a homogeneous series of anhydrous rare-earth-metal perchlorates. Journal of the Chemical Society Dalton Transactions, 1992, , 1997.	1.1	20
62	Progress in the lithium insertion mechanism in Cu3P. Ionics, 2005, 11, 36-45.	1.2	19
63	Polycationic oxides as potential electrode materials for aqueous-based electrochemical capacitors. Current Opinion in Electrochemistry, 2018, 9, 87-94.	2.5	19
64	New topotactic synthetic route to mesoporous silicon carbide. Journal of Materials Chemistry, 2011, 21, 15798.	6.7	18
65	Palladium–Silver Mesowires for the Extended Detection of H <sub>2</sub> . ACS Applied Materials & Interfaces, 2013, 5, 310-318.	4.0	18
66	Electronic and Mechanical Antagonist Effects in Resistive Hydrogen Sensors Based on Pd@Au Core–Shell Nanoparticle Assemblies Prepared by Langmuir–Blodgett. Journal of Physical Chemistry C, 2015, 119, 10130-10139.	1.5	18
67	MnO <sub>2</sub> -MXene Composite as Electrode for Supercapacitor. Journal of the Electrochemical Society, 2022, 169, 030524.	1.3	17
68	Unveiling Pseudocapacitive Charge Storage Behavior in FeWO <sub>4</sub> Electrode Material by Operando Xâ€Ray Absorption Spectroscopy. Small, 2020, 16, e2002855.	5.2	16
69	Ball milling synthesis of LixTiP4: Improvement of the electrochemical performances. Ionics, 2003, 9, 71-76.	1.2	14
70	Silicon carbide with tunable ordered mesoporosity. Microporous and Mesoporous Materials, 2013, 180, 172-177.	2.2	14
71	Platinum for hydrogen sensing: surface and grain boundary scattering antagonistic effects in Pt@Au core–shell nanoparticle assemblies prepared using a Langmuir–Blodgett method. Physical Chemistry Chemical Physics, 2018, 20, 383-394	1.3	13
72	First Anhydrous Gold Perchlorato Complex: ClO2Au(ClO4)4. Synthesis and Molecular and Crystal Structure Analysis. Inorganic Chemistry, 2002, 41, 4173-4178.	1.9	12

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73	Investigation of Ba0.5Sr0.5CoxFe1-xO3- $\hat{l}$ as a pseudocapacitive electrode material with high volumetric capacitance. Electrochimica Acta, 2018, 271, 677-684.	2.6	12
74	Laserâ€Induced Colloidal Writing of Organometallic Precursor–Based Repeatable and Fast Pd–Ni Hydrogen Sensor. Advanced Materials Interfaces, 2019, 6, 1900768.	1.9	12
75	Investigation of Electrochemical and Chemical Processes Occurring at Positive Potentials in "Water-in-Salt―Electrolytes. Journal of the Electrochemical Society, 2021, 168, 050550.	1.3	12
76	Thermal Behavior and X-ray Powder Diffraction Structures of Two Polymorphic Phases of Anhydrous Yb(ClO4)3. Inorganic Chemistry, 1998, 37, 1776-1780.	1.9	11
77	Microwave-Assisted Decoration of Carbon Substrates for Manganese Dioxide-Based Supercapacitors. Journal of the Electrochemical Society, 2015, 162, A5133-A5139.	1.3	10
78	Synthèses et caractérisations structurales de complexes perchlorato et triflato anhydres de praseodyme(III). Canadian Journal of Chemistry, 1994, 72, 2044-2049.	0.6	8
79	Crystalline and Molecular Structures of Anhydrous Lanthanide PerchloratesLn(ClO4)3withLn=La, Ce, Pr, Sm, Eu, Ho, Er, Tm, and Lu. Journal of Solid State Chemistry, 1998, 139, 259-265.	1.4	8
80	Conformational preferences of bis(acetonitrile)tetrachloro molybdenum(IV) and tungsten(IV). Crystal structure of WCl4(CH3CN)2 and DFT calculations. New Journal of Chemistry, 1999, 23, 165-172.	1.4	8
81	Nanogaps for Sensing. Procedia Chemistry, 2009, 1, 746-749.	0.7	8
82	Crystal and molecular structure of anhydrous copper(II) perchlorate. Journal of the Chemical Society Dalton Transactions, 1994, , 3119-3121.	1.1	7
83	Twoâ€Photon Fluorescence Imaging and Therapy of Cancer Cells with Anisotropic Goldâ€Nanoparticleâ€Supported Porous Silicon Nanostructures. ChemNanoMat, 2018, 4, 343-347.	1.5	7
84	Electrochemical study of asymmetric aqueous supercapacitors based on high density oxides: C/Ba0.5Sr0.5Co0.8Fe0.2O3-δ and FeWO4/Ba0.5Sr0.5Co0.8Fe0.2O3-δ. Electrochimica Acta, 2019, 326, 134886.	2.6	7
85	Triperchloratoytterbium(III) Monohydrate, Yb(ClO4)3.H2O. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 1872-1874.	0.4	6
86	Physicochemical properties and theoretical studies of novel fragile ionic liquids based on N-allyl-N,N-dimethylethylammonium cation. Journal of Molecular Liquids, 2019, 284, 522-535.	2.3	6
87	Trifluoromethanesulphonate-selective liquid membrane electrode. Analyst, The, 1991, 116, 479.	1.7	5
88	Ba3NbAs3O: synthesis, crystal structure, Raman spectroscopy and bonding analysis. Journal of Alloys and Compounds, 1999, 284, 124-127.	2.8	5
89	Evaluation of the Properties of an Electrolyte Based on Formamide and LiTFSI for Electrochemical Capacitors. Journal of the Electrochemical Society, 2020, 167, 110508.	1.3	5
90	Anhydrous perchlorato complexes of palladium(II): Pd(ClO4)2, (ClO2)2Pd(ClO4)4, and (NO2)2Pd(ClO4)4. Syntheses and structural analyses. Canadian Journal of Chemistry, 2000, 78, 1544-1552.	0.6	4

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91	Electrodeposition of portable, metal nanowire arrays. , 2002, 4807, 83.		3
92	Potential model for tetrathiafulvalene based on inelastic neutron scattering and Raman spectra. Journal of Chemical Physics, 2003, 119, 4929-4933.	1.2	3
93	Shuttle Effect Quantification for Redox Ionic Liquid Electrolyte Correlated to the Coulombic Efficiency of Supercapacitors. Batteries and Supercaps, 2020, 3, 1193-1200.	2.4	2
94	The bridging bidentate perchlorato group in ReO3(ClO4), ReO3(ClO4)Cl2O6 and Sb2Cl6(O)(OH)(ClO4), a vibrational analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 2869-2875.	2.0	1
95	Transparent MnO2-based Electrochemical Capacitor. ECS Transactions, 2008, 16, 193-196.	0.3	1
96	Ionic Transport and Charge Distribution in Miniaturized Electrochemical Energy Storage Devices byModeling Investigation. Journal of the Electrochemical Society, 0, , .	1.3	1
97	Redox-Induced Structural Change in Anode Materials Based on Tetrahedral (MPn4)x- Transition Metal Pnictides ChemInform, 2004, 35, no.	0.1	0
98	Transparent MnO2-based Electrochemical Capacitor. ECS Meeting Abstracts, 2008, , .	0.0	0
99	Nanogaps for Sensing. Advances in Science and Technology, 0, , .	0.2	0
100	Nanogaps for hydrogen sensing. , 2012, , .		0
101	Resistive Sensors Based on Self-Assembled Core-Shell Nanoparticles. ECS Transactions, 2016, 75, 3-7.	0.3	0
102	Pseudocapacitive Behavior of Polycationic Oxides for Electrochemical Capacitors. ECS Meeting Abstracts, 2018, , .	0.0	0
103	Nano-Engineering of 2D Materials for Supercapacitors. ECS Meeting Abstracts, 2018, , .	0.0	0
104	Investigation of the Fe / W / O System for Aqueous Electrochemical Capacitor Electrode Materials. ECS Meeting Abstracts, 2019, , .	0.0	0
105	Physical Properties, Electrochemical Stabilities and Molecular Dynamics Study of Novel Ionic Liquids Based Electrolytes for Electrochemical Application. ECS Meeting Abstracts, 2019, , .	0.0	0
106	(Invited) Storing Electrons and Holes in the Electrolyte - a New Opportunity for Supercapacitors. ECS Meeting Abstracts, 2019, , .	0.0	0
107	(Invited) Investigation of Ba0,5Sr0,5CoxFe1-XO3-î" As Pseudocapacitive Electrode for Aqueous Electrochemical Capacitor. ECS Meeting Abstracts, 2019, , .	0.0	0
108	Ba0.5Sr0.5CoxFe1-XO3-î": Investigation and Use of Multicationic Pseudocapacitive Oxides. ECS Meeting Abstracts, 2019, , .	0.0	0

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109	(Invited) Anthraquinone on Carbon: Is There Any Way to Get It Working?. ECS Meeting Abstracts, 2020, MA2020-02, 608-608.	0.0	Ο