

George Z Chen

List of Publications by Year in descending order

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269
papers

18,430
citations

9786

73
h-index

14759

127
g-index

286
all docs

286
docs citations

286
times ranked

14734
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct electrochemical reduction of titanium dioxide to titanium in molten calcium chloride. <i>Nature</i> , 2000, 407, 361-364.	27.8	1,313
2	Carbon nanotube and conducting polymer composites for supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2008, 18, 777-788.	4.4	647
3	Electrochemical Capacitance of a Nanoporous Composite of Carbon Nanotubes and Polypyrrole. <i>Chemistry of Materials</i> , 2002, 14, 1610-1613.	6.7	554
4	Carbon Nanotube and Polypyrrole Composites: Coating and Doping. <i>Advanced Materials</i> , 2000, 12, 522-526.	21.0	529
5	Supercapacitor and supercapattery as emerging electrochemical energy stores. <i>International Materials Reviews</i> , 2017, 62, 173-202.	19.3	518
6	Produced water treatment technologies. <i>International Journal of Low-Carbon Technologies</i> , 2014, 9, 157-177.	2.6	468
7	Redox Electrolytes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2015, 162, A5054-A5059.	2.9	394
8	A comparative study on electrochemical co-deposition and capacitance of composite films of conducting polymers and carbon nanotubes. <i>Electrochimica Acta</i> , 2007, 53, 525-537.	5.2	339
9	Electrochemical Capacitance of Nanocomposite Films Formed by Coating Aligned Arrays of Carbon Nanotubes with Polypyrrole. <i>Advanced Materials</i> , 2002, 14, 382.	21.0	303
10	Synthesis and applications of MOF-derived porous nanostructures. <i>Green Energy and Environment</i> , 2017, 2, 218-245.	8.7	301
11	Nanoscale Microelectrochemical Cells on Carbon Nanotubes. <i>Small</i> , 2007, 3, 1513-1517.	10.0	285
12	Carbon nanotubes/titanium dioxide (CNTs/TiO ₂) nanocomposites prepared by conventional and novel surfactant wrapping sol-gel methods exhibiting enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 503-509.	20.2	276
13	Understanding supercapacitors based on nano-hybrid materials with interfacial conjugation. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 245-255.	4.4	245
14	Mechanisms of electrochemical recognition of cations, anions and neutral guest species by redox-active receptor molecules. <i>Coordination Chemistry Reviews</i> , 1999, 185-186, 3-36.	18.8	241
15	Capacitive and non-capacitive faradaic charge storage. <i>Electrochimica Acta</i> , 2016, 206, 464-478.	5.2	236
16	Electrochemical molecular recognition: pathways between complexation and signalling. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1897-1910.	1.1	229
17	Electrolytes for electrochemical energy storage. <i>Materials Chemistry Frontiers</i> , 2017, 1, 584-618.	5.9	203
18	Redox deposition of manganese oxide on graphite for supercapacitors. <i>Electrochemistry Communications</i> , 2004, 6, 499-504.	4.7	193

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19	Electrochemical Preparation of Silicon and Its Alloys from Solid Oxides in Molten Calcium Chloride. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 733-736.	13.8	188
20	Redox electrode materials for supercapatteries. <i>Journal of Power Sources</i> , 2016, 326, 604-612.	7.8	185
21	Direct electrolytic preparation of chromium powder. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2004, 35, 223-233.	2.1	184
22	Carbon nanotube/titanium dioxide (CNT/TiO ₂) core-shell nanocomposites with tailored shell thickness, CNT content and photocatalytic/photoelectrocatalytic properties. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 50-57.	20.2	184
23	Synthesis and Characterization of Novel Acyclic, Macrocyclic, and Calix[4]arene Ruthenium(II) Bipyridyl Receptor Molecules That Recognize and Sense Anions. <i>Inorganic Chemistry</i> , 1996, 35, 5868-5879.	4.0	175
24	Electrochemical fabrication and capacitance of composite films of carbon nanotubes and polyaniline. <i>Journal of Materials Chemistry</i> , 2005, 15, 2297.	6.7	167
25	Theoretical specific capacitance based on charge storage mechanisms of conducting polymers: Comment on "Vertically oriented arrays of polyaniline nanorods and their super electrochemical properties". <i>Chemical Communications</i> , 2011, 47, 4105.	4.1	159
26	Unequalisation of electrode capacitances for enhanced energy capacity in asymmetrical supercapacitors. <i>Energy and Environmental Science</i> , 2010, 3, 1499.	30.8	158
27	Cathodic deoxygenation of the alpha case on titanium and alloys in molten calcium chloride. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2001, 32, 1041-1052.	2.1	156
28	Electrochemically Driven Three-Phase Interlines into Insulator Compounds: Electroreduction of Solid SiO ₂ in Molten CaCl ₂ . <i>ChemPhysChem</i> , 2006, 7, 1750-1758.	2.1	155
29	Achieving high electrode specific capacitance with materials of low mass specific capacitance: Potentiostatically grown thick micro-nanoporous PEDOT films. <i>Electrochemistry Communications</i> , 2007, 9, 83-88.	4.7	152
30	Spectroscopic and electrochemical studies of charge transfer in modified electrodes. <i>Faraday Discussions of the Chemical Society</i> , 1989, 88, 247.	2.2	143
31	Ionic Liquid-Based Electrolytes for Supercapacitor and Supercapattery. <i>Frontiers in Chemistry</i> , 2019, 7, 272.	3.6	140
32	Photo-electro-catalysis enhancement on carbon nanotubes/titanium dioxide (CNTs/TiO ₂) composite prepared by a novel surfactant wrapping sol-gel method. <i>Applied Catalysis B: Environmental</i> , 2008, 85, 17-23.	20.2	139
33	Electrochemistry at Conductor/Insulator/Electrolyte Three-Phase Interlines: A Thin Layer Model. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14043-14051.	2.6	138
34	Toward optimisation of electrolytic reduction of solid chromium oxide to chromium powder in molten chloride salts. <i>Electrochimica Acta</i> , 2004, 49, 2195-2208.	5.2	135
35	Manganese oxide based materials for supercapacitors. <i>Energy Materials</i> , 2008, 3, 186-200.	0.1	129
36	Selective electrochemical recognition of the dihydrogen phosphate anion in the presence of hydrogen sulfate and chloride ions by new neutral ferrocene anion receptors. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1834.	2.0	126

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37	Indirect electrochemical reduction of carbon dioxide to carbon nanopowders in molten alkali carbonates: Process variables and product properties. <i>Carbon</i> , 2014, 73, 163-174.	10.3	122
38	Structure and Ionic-Transport Properties of Lithium-Containing Garnets $\text{Li}_3\text{Ln}_3\text{Te}_2\text{O}_{12}$ (Ln = Y, Pr, Nd). <i>J. Electrochem. Soc.</i> , 2007, 154, 118.	6.7	118
39	Switching on Fast Lithium Ion Conductivity in Garnets: The Structure and Transport Properties of $\text{Li}_{3+x}\text{Nd}_{3-y}\text{Te}_{2-z}\text{Sb}_z\text{O}_{12}$. <i>Chemistry of Materials</i> , 2008, 20, 2360-2369.	6.7	118
40	Supercapattories as High-Performance Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 271-285.	25.5	118
41	Cell voltage versus electrode potential range in aqueous supercapacitors. <i>Scientific Reports</i> , 2015, 5, 9854.	3.3	117
42	Assisted Electrochemical Reduction of Solid TiO_2 in Molten CaCl_2 . <i>Angewandte Chemie - International Edition</i> , 2006, 45, 428-432.	13.8	115
43	1.9 V aqueous carbon-carbon supercapacitors with unequal electrode capacitances. <i>Electrochimica Acta</i> , 2012, 86, 248-254.	5.2	113
44	Voltammetric Studies of the Oxygen-Titanium Binary System in Molten Calcium Chloride. <i>Journal of the Electrochemical Society</i> , 2002, 149, E455.	2.9	112
45	Extraction of titanium from different titania precursors by the FFC Cambridge process. <i>Journal of Alloys and Compounds</i> , 2006, 420, 37-45.	5.5	111
46	Distinct element modelling of cubic particle packing and flow. <i>Powder Technology</i> , 2008, 186, 224-240.	4.2	110
47	Individual and Bipolarly Stacked Asymmetrical Aqueous Supercapacitors of CNTs/ SnO_2 and CNTs/ MnO_2 Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2009, 156, A846.	2.9	110
48	Carbon electrodeposition in molten salts: electrode reactions and applications. <i>RSC Advances</i> , 2014, 4, 35808-35817.	3.6	110
49	Reduction of titanium and other metal oxides using electrodeoxidation. <i>Materials Science and Technology</i> , 2004, 20, 295-300.	1.6	95
50	The measurement of specific capacitances of conducting polymers using the quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 140-146.	3.8	94
51	Advances on transition metal oxides catalysts for formaldehyde oxidation: A review. <i>Catalysis Reviews - Science and Engineering</i> , 2017, 59, 189-233.	12.9	93
52	Solid state reactions: an electrochemical approach in molten salts. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2008, 104, 189.	4.4	92
53	A low resistance boron-doped carbon nanotube-polystyrene composite. <i>Journal of Materials Chemistry</i> , 2001, 11, 2482-2488.	6.7	89
54	Electrochemical Metallization of Solid Terbium Oxide. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2384-2388.	13.8	87

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55	New Ionophoric Calix[4]diquinones: Coordination Chemistry, Electrochemistry, and X-ray Crystal Structures. <i>Inorganic Chemistry</i> , 1997, 36, 5880-5893.	4.0	86
56	Carbon nanotube stabilised emulsions for electrochemical synthesis of porous nanocomposite coatings of poly[3,4-ethylene-dioxythiophene]. <i>Chemical Communications</i> , 2006, , 4629.	4.1	86
57	Rationalisation and optimisation of solid state electro-reduction of SiO ₂ to Si in molten CaCl ₂ in accordance with dynamic three-phase interlines based voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2010, 639, 130-140.	3.8	86
58	Molecular level one-step activation of agar to activated carbon for high performance supercapacitors. <i>Carbon</i> , 2018, 132, 573-579.	10.3	85
59	Metallic Cavity Electrodes for Investigation of Powders. <i>Journal of the Electrochemical Society</i> , 2005, 152, E328.	2.9	83
60	Three-Phase Interlines Electrochemically Driven into Insulator Compounds: A Penetration Model and Its Verification by Electroreduction of Solid AgCl. <i>Chemistry - A European Journal</i> , 2007, 13, 604-612.	3.3	82
61	Electrolysis of solid metal sulfide to metal and sulfur in molten NaCl-KCl. <i>Electrochemistry Communications</i> , 2011, 13, 1492-1495.	4.7	82
62	Electrochemical Production of Sustainable Hydrocarbon Fuels from CO ₂ Co-electrolysis in Eutectic Molten Melts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12877-12890.	6.7	82
63	Lower-rim ferrocenyl substituted calixarenes: New electrochemical sensors for anions. <i>Polyhedron</i> , 1998, 17, 405-412.	2.2	80
64	Thin Pellets: Fast Electrochemical Preparation of Capacitor Tantalum Powders. <i>Chemistry of Materials</i> , 2007, 19, 153-160.	6.7	80
65	A quartz sealed Ag/AgCl reference electrode for CaCl ₂ based molten salts. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 321-328.	3.8	79
66	Electro-deposition and re-oxidation of carbon in carbonate-containing molten salts. <i>Faraday Discussions</i> , 2014, 172, 105-116.	3.2	78
67	The effect of variable operating parameters for hydrocarbon fuel formation from CO ₂ by molten salts electrolysis. <i>Journal of CO₂ Utilization</i> , 2020, 40, 101193.	6.8	77
68	Studies of deposition of and charge storage in polypyrrole-chloride and polypyrrole-carbon nanotube composites with an electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , 2004, 568, 135-142.	3.8	76
69	Electrochemical study of different membrane materials for the fabrication of stable, reproducible and reusable reference electrode. <i>Journal of Energy Chemistry</i> , 2020, 49, 33-41.	12.9	76
70	Chloride ion enhanced thermal stability of carbon dioxide captured by monoethanolamine in hydroxyl imidazolium based ionic liquids. <i>Energy and Environmental Science</i> , 2011, 4, 2125.	30.8	75
71	Nitrogen-doped graphene guided formation of monodisperse microspheres of LiFePO ₄ nanoplates as the positive electrode material of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12065-12072.	10.3	75
72	Thermo-solvatochromism of chloro-nickel complexes in 1-hydroxyalkyl-3-methyl-imidazolium cation based ionic liquids. <i>Green Chemistry</i> , 2008, 10, 296.	9.0	74

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73	Polypyrrole/TiO ₂ nanotube arrays with coaxial heterogeneous structure as sulfur hosts for lithium sulfur batteries. <i>Journal of Power Sources</i> , 2016, 327, 447-456.	7.8	74
74	Anion recognition by novel ruthenium(II) bipyridyl calix[4]arene receptor molecules. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1269.	2.0	73
75	Transition metal cation and phosphate anion electrochemical recognition in water by new polyaza ferrocene macrocyclic ligands. <i>Inorganica Chimica Acta</i> , 1996, 246, 143-150.	2.4	73
76	Up-scalable and controllable electrolytic production of photo-responsive nanostructured silicon. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10243.	10.3	72
77	Reviewâ€”recent advances in non-aqueous liquid electrolytes containing fluorinated compounds for high energy density lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 38, 542-570.	18.0	72
78	Electrolytic conversion of graphite to carbon nanotubes in fused salts. <i>Journal of Electroanalytical Chemistry</i> , 1998, 446, 1-6.	3.8	70
79	Electrochemical investigation of novel reference electrode Ni/Ni(OH) ₂ , in comparison with silver and platinum inert quasi-reference electrodes for electrolysis in eutectic molten hydroxide. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27224-27236.	7.1	70
80	Nanocomposites of manganese oxides and carbon nanotubes for aqueous supercapacitor stacks. <i>Electrochimica Acta</i> , 2010, 55, 7447-7453.	5.2	69
81	Nanostructured materials for the construction of asymmetrical supercapacitors. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2010, 224, 479-503.	1.4	69
82	Controlling the nanostructure of electrochemically grown nanoporous composites of carbon nanotubes and conducting polymers. <i>Composites Science and Technology</i> , 2004, 64, 2325-2331.	7.8	68
83	Morphology, structure and growth of WS ₂ nanotubes. <i>Journal of Materials Chemistry</i> , 2000, 10, 2570-2577.	6.7	67
84	A Direct Electrochemical Route from Ilmenite to Hydrogen-Storage Ferrotitanium Alloys. <i>Chemistry - A European Journal</i> , 2006, 12, 5075-5081.	3.3	66
85	Electro-reduction of cuprous chloride powder to copper nanoparticles in an ionic liquid. <i>Electrochemistry Communications</i> , 2007, 9, 1374-1381.	4.7	65
86	Electrolysis of solid MoS ₂ in molten CaCl ₂ for Mo extraction without CO ₂ emission. <i>Electrochemistry Communications</i> , 2007, 9, 1951-1957.	4.7	65
87	Diester-calix[4]arene-diquinone complexation and electrochemical recognition of group 1 and 2, ammonium and alkyl ammonium guest cations.. <i>Tetrahedron</i> , 1994, 50, 931-940.	1.9	60
88	Bis(calix[4]diquinone) Receptors:Â Cesium- and Rubidium-Selective Redox-Active Ionophores. <i>Journal of the American Chemical Society</i> , 2003, 125, 5774-5785.	13.7	60
89	Mechanisms and Designs of Asymmetrical Electrochemical Capacitors. <i>Electrochimica Acta</i> , 2017, 247, 344-357.	5.2	60
90	Design and optimization of electrochemical cell potential for hydrogen gas production. <i>Journal of Energy Chemistry</i> , 2021, 52, 421-427.	12.9	60

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91	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 155-164.	2.9	59
92	A direct electrochemical route from oxide precursors to the terbium-nickel intermetallic compound TbNi ₅ . Electrochimica Acta, 2006, 51, 5785-5793.	5.2	59
93	Solar-thermochromism of Pseudocrystalline Nanodroplets of Ionic Liquid-Ni ^{II} Complexes Immobilized inside Translucent Microporous PVDF Films. Advanced Materials, 2009, 21, 776-780.	21.0	59
94	Fe-Filled Carbon Nanotubes: Nano-electromagnetic Inductors. Chemistry of Materials, 2002, 14, 4505-4508.	6.7	58
95	Metal-Oxide Molar Volume Ratio: The Overlooked Barrier to Solid-State Electroreduction and a "Green" Bypass through Recyclable NH ₄ HCO ₃ . Angewandte Chemie - International Edition, 2010, 49, 3203-3206.	13.8	56
96	Enhancing hydrogen production from steam electrolysis in molten hydroxides via selection of non-precious metal electrodes. International Journal of Hydrogen Energy, 2020, 45, 28260-28271.	7.1	56
97	Electrochemical Synthesis of LiTiO ₂ and LiTi ₂ O ₄ in Molten LiCl. Chemistry of Materials, 2004, 16, 4324-4329.	6.7	55
98	Fluorinated Electrolytes for Li-Ion Batteries: The Lithium Difluoro(oxalato)borate Additive for Stabilizing the Solid Electrolyte Interphase. ACS Omega, 2017, 2, 8741-8750.	3.5	55
99	High energy supercapattery with an ionic liquid solution of LiClO ₄ . Faraday Discussions, 2016, 190, 231-240.	3.2	54
100	Unusual anodic behaviour of chloride ion in 1-butyl-3-methylimidazolium hexafluorophosphate. Electrochemistry Communications, 2005, 7, 685-691.	4.7	53
101	Electrochemical Methods to Enhance the Capacitance in Activated Carbon/Polyaniline Composites. Journal of the Electrochemical Society, 2008, 155, A672.	2.9	53
102	Development of the Fray-Farthing-Chen Cambridge Process: Towards the Sustainable Production of Titanium and Its Alloys. Jom, 2018, 70, 129-137.	1.9	52
103	Electrochemical investigation of lithium intercalation into graphite from molten lithium chloride. Journal of Electroanalytical Chemistry, 2002, 530, 16-22.	3.8	51
104	Smart solar concentrators for building integrated photovoltaic façades. Solar Energy, 2016, 133, 111-118.	6.1	51
105	Electrochemical Conversion of Oxide Precursors to Consolidated Zr and Zr _{2.5} Nb Tubes. Chemistry of Materials, 2008, 20, 7274-7280.	6.7	50
106	More affordable electrolytic LaNi ₅ -type hydrogen storage powders. Chemical Communications, 2007, , 2515.	4.1	48
107	More sustainable electricity generation in hot and dry fuel cells with a novel hybrid membrane of Nafion/nano-silica/hydroxyl ionic liquid. Applied Energy, 2016, 175, 451-458.	10.1	48
108	Influences of ions and temperature on performance of carbon nano-particulates in supercapacitors with neutral aqueous electrolytes. Particuology, 2014, 15, 9-17.	3.6	47

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109	Titanium carbide nanocube core induced interfacial growth of crystalline polypyrrole/polyvinyl alcohol lamellar shell for wide-temperature range supercapacitors. <i>Journal of Power Sources</i> , 2015, 274, 1118-1125.	7.8	47
110	Electrochemical Fabrication of Nickel Manganese Gallium Alloy Powder. <i>Advanced Engineering Materials</i> , 2003, 5, 650-653.	3.5	45
111	Electrodeposition of Nonconducting Polymers: Roles of Carbon Nanotubes in the Process and Products. <i>ACS Nano</i> , 2010, 4, 4274-4282.	14.6	45
112	Mixed-Phase WxMoyCzS2Nanotubes. <i>Chemistry of Materials</i> , 2000, 12, 3541-3546.	6.7	44
113	Electrolytic reduction of mixed solid oxides in molten salts for energy efficient production of the TiNi alloy. <i>Science Bulletin</i> , 2006, 51, 2535-2540.	1.7	44
114	Interfacial Synthesis: Amphiphilic Monomers Assisted Ultrarefining of Mesoporous Manganese Oxide Nanoparticles and the Electrochemical Implications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3120-3129.	8.0	44
115	Study on the reduction of highly porous TiO ₂ precursors and thin TiO ₂ layers by the FFC-Cambridge process. <i>Journal of Materials Science</i> , 2007, 42, 7494-7501.	3.7	43
116	A feasibility study of scaling-up the electrolytic production of carbon nanotubes in molten salts. <i>Electrochimica Acta</i> , 2002, 48, 91-102.	5.2	42
117	A study of the film formation kinetics on zinc in different acidic corrosion inhibitor solutions by quartz crystal microbalance. <i>Corrosion Science</i> , 2005, 47, 2157-2172.	6.6	42
118	Electrolytic synthesis of TbFe ₂ from Tb ₄ O ₇ and Fe ₂ O ₃ powders in molten CaCl ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2006, 589, 139-147.	3.8	42
119	Electrolytic, TEM and Raman studies on the production of carbon nanotubes in molten NaCl. <i>Carbon</i> , 2003, 41, 1127-1141.	10.3	41
120	Cross-linked Ni(OH) ₂ /CuCo ₂ S ₄ /Ni networks as binder-free electrodes for high performance supercapatteries. <i>Nanoscale</i> , 2018, 10, 20526-20532.	5.6	41
121	Circuit elements in carbon nanotube-polymer composites. <i>Carbon</i> , 2004, 42, 1707-1712.	10.3	39
122	Computer-aided control of electrolysis of solid Nb ₂ O ₅ in molten CaCl ₂ . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1809.	2.8	39
123	Cyclic Voltammetry of ZrO ₂ Powder in the Metallic Cavity Electrode in Molten CaCl ₂ . <i>Journal of the Electrochemical Society</i> , 2010, 157, F1.	2.9	39
124	Utilisation of Carbon Dioxide for Electro-Carburisation of Mild Steel in Molten Carbonate Salts. <i>Journal of the Electrochemical Society</i> , 2011, 158, H1117.	2.9	39
125	Electrochemical recognition of group 1 and 2 metal cations by redox-active ionophores. <i>Inorganica Chimica Acta</i> , 1994, 225, 137-144.	2.4	38
126	Electrochemical response to anions in acetonitrile by neutral molecular receptors containing ferrocene, amide and amine moieties. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 97.	1.7	38

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127	Current progress on catalytic oxidation of toluene: a review. Environmental Science and Pollution Research, 2021, 28, 62030-62060.	5.3	38
128	Roles of Cationic and Elemental Calcium in the Electro-Reduction of Solid Metal Oxides in Molten Calcium Chloride. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 292-302.	1.5	37
129	Preparation of Mo nanopowders through electroreduction of solid MoS ₂ in molten KClâ€‘NaCl. Physical Chemistry Chemical Physics, 2014, 16, 19514-19521.	2.8	37
130	Oxidation Decomposition Mechanism of Fluoroethylene Carbonateâ€‘Based Electrolytes for Highâ€‘Voltage Lithium Ion Batteries: A DFT Calculation and Experimental Study. ChemistrySelect, 2017, 2, 7353-7361.	1.5	36
131	Nanoporous Versus Nanoparticulate Carbonâ€‘Based Materials for Capacitive Charge Storage. Energy and Environmental Materials, 2020, 3, 247-264.	12.8	36
132	ELECTROCHEMICAL INVESTIGATION OF THE FORMATION OF CARBON NANOTUBES IN MOLTEN SALTS. High Temperature Material Processes, 1998, 2, 459-469.	0.6	35
133	Linear and non-linear pseudocapacitances with or without diffusion control. Progress in Natural Science: Materials International, 2021, 31, 792-800.	4.4	35
134	Niobium based intermetallics as a source of high-current/high magnetic field superconductors. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1315-1320.	1.2	34
135	Superconducting Nb ₃ Sn intermetallics made by electrochemical reduction of Nb ₂ O ₅ â€‘SnO ₂ oxides. Physica C: Superconductivity and Its Applications, 2003, 387, 242-246.	1.2	34
136	Direct and low energy electrolytic co-reduction of mixed oxides to zirconium-based multi-phase hydrogen storage alloys in molten salts. Journal of Materials Chemistry, 2009, 19, 2803.	6.7	34
137	20 V stack of aqueous supercapacitors with carbon (âˆ’), titanium bipolar plates and CNTâ€‘polypyrrole composite (+). AIChE Journal, 2012, 58, 974-983.	3.6	34
138	A sunlight assisted dual purpose photoelectrochemical cell for low voltage removal of heavy metals and organic pollutants in wastewater. Chemical Engineering Journal, 2014, 244, 411-421.	12.7	34
139	Near-Net-Shape Production of Hollow Titanium Alloy Components via Electrochemical Reduction of Metal Oxide Precursors in Molten Salts. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 272-282.	2.1	32
140	A Co ₉ S ₈ microsphere and N-doped carbon nanotube composite host material for lithium-sulfur batteries. Journal of Alloys and Compounds, 2020, 826, 154201.	5.5	32
141	Interactions of molten salts with cathode products in the FFC Cambridge Process. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 1572-1587.	4.9	32
142	Phase-Tunable Fabrication of Consolidated (Î±+Î²)-TiZr Alloys for Biomedical Applications through Molten Salt Electrolysis of Solid Oxides. Chemistry of Materials, 2009, 21, 5187-5195.	6.7	31
143	From Electrochemical Capacitors to Supercapatteries. Green, 2012, 2, 41-54.	0.4	31
144	Silicon prepared by electro-reduction in molten salts as new energy materials. Journal of Energy Chemistry, 2020, 47, 46-61.	12.9	31

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145	Cyclic voltammetry of electroactive and insulative compounds in solid state: A revisit of AgCl in aqueous solutions assisted by metallic cavity electrode and chemically modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 627, 28-40.	3.8	30
146	Physicochemical and Electrochemical Properties of 1,1,2,2-tetrafluoroethyl-2,3,3-tetrafluoropropyl Ether as a Co-solvent for High-Voltage Lithium-ion Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 3747-3755.	3.4	28
147	A comparative study of anodic oxidation of bromide and chloride ions on platinum electrodes in 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 371-378.	3.8	27
148	Investigation of electrochemical reduction of GeO ₂ to Ge in molten CaCl ₂ -NaCl. <i>Electrochimica Acta</i> , 2014, 147, 352-359.	5.2	27
149	Optimal Utilization of Combined Double Layer and Nernstian Charging of Activated Carbon Electrodes in Aqueous Halide Supercapattery through Capacitance Unequalization. <i>Journal of the Electrochemical Society</i> , 2018, 165, A4067-A4076.	2.9	27
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