

Daniel Guay

List of Publications by Year in descending order

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267
papers

9,623
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30070

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274
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docs citations

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times ranked

9586
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat-treated iron and cobalt tetraphenylporphyrins adsorbed on carbon black: Physical characterization and catalytic properties of these materials for the reduction of oxygen in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 1996, 41, 1689-1701.	5.2	243
2	Microelectrode Study of Pore Size, Ion Size, and Solvent Effects on the Charge/Discharge Behavior of Microporous Carbons for Electrical Double-Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2009, 156, A7.	2.9	231
3	Highly active PtAu alloy nanoparticle catalysts for the reduction of 4-nitrophenol. <i>Nanoscale</i> , 2014, 6, 2125-2130.	5.6	211
4	Is nitrogen important in the formulation of Fe-based catalysts for oxygen reduction in solid polymer fuel cells?. <i>Electrochimica Acta</i> , 1997, 42, 1379-1388.	5.2	207
5	3D RuO ₂ Microsupercapacitors with Remarkable Areal Energy. <i>Advanced Materials</i> , 2015, 27, 6625-6629.	21.0	206
6	Effect of the Pre-Treatment of Carbon Black Supports on the Activity of Fe-Based Electrocatalysts for the Reduction of Oxygen. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2042-2049.	2.6	188
7	Hydrous RuO ₂ /carbon nanowalls hierarchical structures for all-solid-state ultrahigh-energy-density micro-supercapacitors. <i>Nano Energy</i> , 2014, 10, 288-294.	16.0	176
8	XPS investigations of thermally prepared RuO ₂ electrodes in reductive conditions. <i>Electrochimica Acta</i> , 2003, 48, 4245-4252.	5.2	175
9	Physical, chemical and electrochemical characterization of heat-treated tetracarboxylic cobalt phthalocyanine adsorbed on carbon black as electrocatalyst for oxygen reduction in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 1995, 40, 2635-2646.	5.2	173
10	Hydriding behavior of Mg-Al and leached Mg-Al compounds prepared by high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 2000, 297, 282-293.	5.5	165
11	Origin of the electrocatalytic properties for oxygen reduction of some heat-treated polyacrylonitrile and phthalocyanine cobalt compounds adsorbed on carbon black as probed by electrochemistry and x-ray absorption spectroscopy. <i>The Journal of Physical Chemistry</i> , 1992, 96, 10898-10905.	2.9	152
12	Catalytic activity and stability of heat-treated iron phthalocyanines for the electroreduction of oxygen in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 1996, 61, 227-237.	7.8	150
13	Ionomers for Proton Exchange Membrane Fuel Cells with Sulfonic Acid Groups on the End Groups: Novel Branched Poly(ether ketone)s. <i>Macromolecules</i> , 2008, 41, 281-284.	4.8	148
14	Electrochemical Properties of Ruthenium-Based Nanocrystalline Materials as Electrodes for Supercapacitors. <i>Chemistry of Materials</i> , 2002, 14, 1210-1215.	6.7	142
15	Physicochemical Characterization of Mixed RuO ₂ -SnO ₂ Solid Solutions. <i>Chemistry of Materials</i> , 2005, 17, 1570-1579.	6.7	140
16	Pyrolyzed Cobalt Phthalocyanine as Electrocatalyst for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 1993, 140, 1974-1981.	2.9	131
17	Iron catalysts prepared by high-temperature pyrolysis of tetraphenylporphyrins adsorbed on carbon black for oxygen reduction in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 1998, 43, 341-353.	5.2	129
18	Activation of the human peripheral cannabinoid receptor results in inhibition of adenylyl cyclase. <i>Molecular Pharmacology</i> , 1995, 48, 352-61.	2.3	128

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19	Electronic and structural characterization of underpotentially deposited submonolayers and monolayer of copper on gold (111) studied by in situ x-ray-absorption spectroscopy. <i>Physical Review Letters</i> , 1991, 66, 2235-2238.	7.8	116
20	Crystallite Size Effects of Carbon-Supported Platinum on Oxygen Reduction in Liquid Acids. <i>Journal of the Electrochemical Society</i> , 1996, 143, 18-23.	2.9	107
21	Hybrid Nafion [®] -inorganic membrane with potential applications for polymer electrolyte fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2000, 489, 101-105.	3.8	107
22	High-resolution on-chip supercapacitors with ultra-high scan rate ability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7170-7174.	10.3	104
23	Influence of Nitrogen-Containing Precursors on the Electrocatalytic Activity of Heat-Treated Fe(OH) ₂ on Carbon Black for O ₂ Reduction. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2411-2418.	2.9	102
24	Activation and characterization of Fe-based catalysts for the reduction of oxygen in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 1998, 43, 1969-1984.	5.2	100
25	Activation characteristics of graphite modified hydrogen absorbing materials. <i>Journal of Alloys and Compounds</i> , 2001, 325, 245-251.	5.5	98
26	Ionomers for Proton Exchange Membrane Fuel Cells with Sulfonic Acid Groups on the End Groups: Novel Linear Aromatic Poly(sulfide-ketone)s. <i>Macromolecules</i> , 2008, 41, 277-280.	4.8	93
27	Preparation of PtAu Alloy Colloids by Laser Ablation in Solution and Their Characterization. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13413-13420.	3.1	91
28	Activation of Ruthenium Oxide, Iridium Oxide, and Mixed Ru/Ir Oxide Electrodes during Cathodic Polarization and Hydrogen Evolution. <i>Journal of the Electrochemical Society</i> , 1997, 144, 573-581.	2.9	89
29	Influence of the configuration in planar interdigitated electrochemical micro-capacitors. <i>Journal of Power Sources</i> , 2013, 230, 230-235.	7.8	88
30	New class of potent ligands for the human peripheral cannabinoid receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 2263-2268.	2.2	86
31	Activation of Various Fe-Based Precursors on Carbon Black and Graphite Supports to Obtain Catalysts for the Reduction of Oxygen in Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1997, 144, 218-226.	2.9	86
32	Selective electroreduction of CO ₂ to formate on Bi and oxide-derived Bi films. <i>Journal of CO₂ Utilization</i> , 2017, 19, 276-283.	6.8	78
33	High-Performance, Low Pt Content Catalysts for the Electroreduction of Oxygen in Polymer-Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1997, 144, 145-154.	2.9	77
34	Hydrogen production and crystal structure of ball-milled MgH ₂ -Ca and MgH ₂ -CaH ₂ mixtures. <i>Journal of Alloys and Compounds</i> , 2004, 376, 180-185.	5.5	76
35	Growth dynamics of pulsed laser deposited Pt nanoparticles on highly oriented pyrolytic graphite substrates. <i>Physical Review B</i> , 2004, 70, .	3.2	73
36	Carbon/PbO ₂ asymmetric electrochemical capacitor based on methanesulfonic acid electrolyte. <i>Electrochimica Acta</i> , 2011, 56, 8122-8128.	5.2	73

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37	Study of the activation process of Mg-based hydrogen storage materials modified by graphite and other carbonaceous compounds. <i>Journal of Materials Research</i> , 2001, 16, 2893-2905.	2.6	72
38	In-plane structural and electronic characteristics of underpotentially deposited copper on gold (100) probed by in-situ X-ray absorption spectroscopy. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 289, 263-278.	0.1	70
39	Structure and high-temperature oxidation behaviour of Cu-Ni-Fe alloys prepared by high-energy ball milling for application as inert anodes in aluminium electrolysis. <i>Corrosion Science</i> , 2010, 52, 3348-3355.	6.6	69
40	Influence of the expansion dynamics of laser-produced gold plasmas on thin film structure grown in various atmospheres. <i>Journal of Applied Physics</i> , 2003, 94, 4796.	2.5	67
41	Inhibition of the Activation of Multiple Serine Proteases with a Cathepsin C Inhibitor Requires Sustained Exposure to Prevent Pro-enzyme Processing*. <i>Journal of Biological Chemistry</i> , 2007, 282, 20836-20846.	3.4	67
42	In Situ Spatial and Time-Resolved Studies of Electrochemical Reactions by Scanning Transmission X-ray Microscopy. <i>Analytical Chemistry</i> , 2005, 77, 3479-3487.	6.5	66
43	Formic acid electro-oxidation at PtAu alloyed nanoparticles synthesized by pulsed laser ablation in liquids. <i>Journal of Power Sources</i> , 2014, 248, 273-282.	7.8	66
44	Ionomers for proton exchange membrane fuel cells with sulfonic acid groups on the end-groups: Novel branched poly(ether-etherone)s with 3,6-ditriptyl-carbazole end-groups. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3860-3868.	2.3	61
45	Structural and Electrochemical Characterization of Metastable PtAu Bulk and Surface Alloys Prepared by Crossed-Beam Pulsed Laser Deposition. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2192-2199.	3.1	61
46	Electrocatalytic Activity of Nafion-impregnated Pyrolyzed Cobalt Phthalocyanine: A Correlative Study Between Rotating Disk and Solid Polymer Electrolyte Fuel Cell Electrodes. <i>Journal of the Electrochemical Society</i> , 1994, 141, 41-45.	2.9	59
47	Structure and electrochemical behaviour of metastable Mg50Ti50 alloy prepared by ball milling. <i>Journal of Power Sources</i> , 2008, 175, 621-624.	7.8	59
48	Surface characterization by time-of-flight SIMS of a catalyst for oxygen electroreduction: pyrolyzed cobalt phthalocyanine-on-carbon black. <i>Applied Surface Science</i> , 1995, 84, 9-21.	6.1	58
49	Kinetics of the Hydrogen Evolution Reaction on RuO ₂ and IrO ₂ Oxide Electrodes in 2.0 M H ₂ SO ₄ Solution: An AC Impedance Study. <i>Journal of the Electrochemical Society</i> , 1996, 143, 3576-3584.	2.9	56
50	Dopamine and ascorbic acid electro-oxidation on Au, AuPt and Pt nanoparticles prepared by pulse laser ablation in water. <i>Electrochimica Acta</i> , 2015, 159, 174-183.	5.2	56
51	Selective electroreduction of CO ₂ to formate on 3D [100] Pb dendrites with nanometer-sized needle-like tips. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20747-20756.	10.3	56
52	Influence of an inert background gas on bimetallic cross-beam pulsed laser deposition. <i>Journal of Applied Physics</i> , 2006, 99, 034904.	2.5	55
53	In Vivo Inhibition of Serine Protease Processing Requires a High Fractional Inhibition of Cathepsin C. <i>Molecular Pharmacology</i> , 2008, 73, 1857-1865.	2.3	55
54	Electroreduction of CO ₂ to formate on amine modified Pb electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11272-11281.	10.3	55

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55	Graphitization and particle size analysis of pyrolyzed cobalt phthalocyanine/carbon catalysts for oxygen reduction in fuel cells. <i>Journal of Materials Research</i> , 1994, 9, 3203-3209.	2.6	54
56	Gold oxide thin film grown by pulsed laser deposition in an O ₂ atmosphere. <i>Thin Solid Films</i> , 2005, 472, 49-57.	1.8	54
57	New Materials and Procedures to Protect Metallic PEM Fuel Cell Bipolar Plates. <i>Journal of the Electrochemical Society</i> , 2002, 149, A905.	2.9	52
58	Electrodeposited platinum thin films with preferential (100) orientation: Characterization and electrocatalytic properties for ammonia and formic acid oxidation. <i>Journal of Power Sources</i> , 2013, 225, 323-329.	7.8	52
59	Effect of IrO ₆ Octahedron Distortion on the OER Activity at (100) IrO ₂ Thin Film. <i>ACS Catalysis</i> , 2020, 10, 806-817.	11.2	52
60	Highly Porous and Preferentially Oriented {100} Platinum Nanowires and Thin Films. <i>Advanced Functional Materials</i> , 2012, 22, 4172-4181.	14.9	51
61	Trends in Catalysis and Catalyst Cost Effectiveness for N ₂ H ₄ Fuel Cells and Sensors: a Rotating Disk Electrode (RDE) Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4717-4738.	3.1	51
62	Correlation between plasma expansion dynamics and gold-thin film structure during pulsed-laser deposition. <i>Applied Physics Letters</i> , 2002, 80, 1716-1718.	3.3	50
63	Influence of Loading on the Activity and Stability of Heat-Treated Carbon-Supported Cobalt Phthalocyanine Electrocatalysts in Solid Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1995, 142, 1162-1168.	2.9	49
64	Effect of carbon-containing compounds on the hydriding behavior of nanocrystalline Mg ₂ Ni. <i>Journal of Alloys and Compounds</i> , 2000, 307, 226-233.	5.5	49
65	Identification of Cu surface active sites for a complete nitrate-to-nitrite conversion with nanostructured catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 187, 399-407.	20.2	48
66	Anisotropy of the core-hole relaxation in x-ray-absorption spectroscopy as probed in square planar cuprates. <i>Physical Review B</i> , 1992, 45, 8091-8096.	3.2	46
67	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 1999, 29, 951-960.	2.9	46
68	Determination of the real surface area of powdered materials in cavity microelectrodes by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2010, 55, 6283-6291.	5.2	46
69	Tuning Pt-Ir Interactions for NH ₃ Electrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 2508-2518.	11.2	46
70	Uncovering the nature of electroactive sites in nano-architected dendritic Bi for highly efficient CO ₂ electroreduction to formate. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119031.	20.2	46
71	Synthesis and characterization of preferentially oriented (100) Pt nanowires. <i>Electrochemistry Communications</i> , 2009, 11, 1924-1927.	4.7	45
72	Structural and electronic characterization of underpotentially deposited copper on gold single crystal probed by in situ X-ray absorption spectroscopy. <i>Electrochimica Acta</i> , 1991, 36, 1859-1862.	5.2	44

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73	Reactivity during cycling of nanocrystalline Mg-based hydrogen storage compounds. International Journal of Hydrogen Energy, 2002, 27, 909-913.	7.1	44
74	Enhanced electrocatalytic nitrate reduction by preferentially-oriented (100) PtRh and PtIr alloys: the hidden treasures of the "miscibility gap" TM . Applied Catalysis B: Environmental, 2018, 221, 86-96.	20.2	44
75	XPS surface study of nanocrystalline Ti-Ru-Fe materials. Applied Surface Science, 2000, 158, 252-262.	6.1	43
76	Effect of Size on the Electrochemical Stability of Pt Nanoparticles Deposited on Gold Substrate. Journal of Physical Chemistry C, 2010, 114, 2980-2988.	3.1	43
77	Influence of pressure on the Pt nanoparticle growth modes during pulsed laser ablation. Journal of Applied Physics, 2010, 108, .	2.5	43
78	Effect of the nature of (100) surface sites on the electroactivity of macroscopic Pt electrodes for the electrooxidation of ammonia. Electrochemistry Communications, 2012, 22, 197-199.	4.7	43
79	Partial oxidation of methane over ruthenium catalysts. Catalysis Letters, 1993, 21, 99-111.	2.6	42
80	Electrochemical Template Synthesis of Ordered Lead Dioxide Nanowires. Journal of the Electrochemical Society, 2009, 156, A645.	2.9	42
81	Activation and hydrogen absorption in thermally prepared RuO ₂ and IrO ₂ . Journal of Electroanalytical Chemistry, 2004, 570, 13-27.	3.8	41
82	Investigation of cavity microelectrode technique for electrochemical study with manganese dioxides. Electrochimica Acta, 2012, 86, 268-276.	5.2	40
83	Mechanistic Similarity in Catalytic N ₂ Production from NH ₃ and NO ₂ ⁺ at Pt(100) Thin Films: Toward a Universal Catalytic Pathway for Simple N-Containing Species, and Its Application to <i>in Situ</i> Removal of NH ₃ Poisons. Journal of Physical Chemistry C, 2015, 119, 9860-9878.	3.1	40
84	Physicochemical characteristics of electrochemically deposited molybdenum sulfide and polypyrrole-tetrathiomolybdate/molybdenum trisulfide composite electrodes. Chemistry of Materials, 1993, 5, 861-868.	6.7	39
85	Laser-Fabricated Porous Alumina Membranes for the Preparation of Metal Nanodot Arrays. Small, 2008, 4, 572-576.	10.0	39
86	Synthesis and properties of novel benzimidazole-containing sulfonated polyethersulfones for fuel cell applications. Journal of Polymer Science Part A, 2009, 47, 1920-1929.	2.3	39
87	Metal-Organic-Frameworks-Derived Cu/Cu ₂ O Catalyst with Ultrahigh Current Density for Continuous-Flow CO ₂ Electroreduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 15739-15746.	6.7	39
88	Chemical Bonding in Restacked Single-Layer MoS ₂ by X-ray Absorption Spectroscopy. Chemistry of Materials, 1994, 6, 614-619.	6.7	38
89	Design and synthesis of dipeptidyl nitriles as potent, selective, and reversible inhibitors of cathepsin C. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5392-5396.	2.2	36
90	Ultra high capacitance values of Pt@RuO ₂ core-shell nanotubular electrodes for microsupercapacitor applications. Journal of Power Sources, 2013, 221, 228-231.	7.8	36

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91	Hydrogen Evolution Reaction in Alkaline Solution: Catalytic Influence of Pt Supported on Graphite vs. Pt Inclusions in Graphite. <i>Journal of the Electrochemical Society</i> , 1996, 143, 919-926.	2.9	35
92	Influence of the iron content in Cu-Ni based inert anodes on their corrosion resistance for aluminium electrolysis. <i>Corrosion Science</i> , 2011, 53, 3248-3253.	6.6	35
93	Synthesis and characterization of PtCo nanowires for the electro-oxidation of methanol. <i>Journal of Power Sources</i> , 2012, 206, 20-28.	7.8	35
94	PEMFC Anode with Very Low Pt Loadings Using Pulsed Laser Deposition. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, A125.	2.2	34
95	Electro-oxidation of Ethanol at Sputter-Deposited Platinum-Tin Catalysts. <i>Journal of the Electrochemical Society</i> , 2007, 154, B876.	2.9	34
96	Physico-Chemical and Electrochemical Properties of Platinum-Tin Nanoparticles Synthesized by Pulsed Laser Ablation for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14672-14681.	3.1	34
97	Structural and surface characterizations of nanocrystalline Pt-Ru alloys prepared by high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 1999, 292, 301-310.	5.5	33
98	Nanostructured Gold Thin Films Prepared by Pulsed Laser Deposition. <i>Journal of Materials Research</i> , 2004, 19, 950-958.	2.6	33
99	EQCM study of electrodeposited PbO ₂ : Investigation of the gel formation and discharge mechanisms. <i>Electrochimica Acta</i> , 2009, 54, 7382-7388.	5.2	32
100	Anodic behavior of mechanically alloyed Cu-Ni-Fe and Cu-Ni-Fe-O electrodes for aluminum electrolysis in low-temperature KF-AlF ₃ electrolyte. <i>Electrochimica Acta</i> , 2013, 112, 176-182.	5.2	32
101	On the key role of Cu on the oxidation behavior of Cu-Ni-Fe based anodes for Al electrolysis. <i>Corrosion Science</i> , 2015, 101, 105-113.	6.6	32
102	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 1243-1253.	2.9	31
103	Mechanically Alloyed Cu-Ni-Fe-O Based Materials as Oxygen-Evolving Anodes for Aluminum Electrolysis. <i>Journal of the Electrochemical Society</i> , 2012, 159, E62-E68.	2.9	31
104	Measurements of hydrogen solubility in Cu _x Pd _{100-x} thin films. <i>Electrochimica Acta</i> , 2013, 90, 615-622.	5.2	31
105	Enhanced stability and activity of PtRu nanotubes for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2009, 11, 1449-1452.	4.7	30
106	Electrodeposition of Arrays of Ru, Pt, and PtRu Alloy 1D Metallic Nanostructures. <i>Journal of the Electrochemical Society</i> , 2010, 157, K59.	2.9	30
107	Hydrazine Oxidation at Porous and Preferentially Oriented {100} Pt Thin Films. <i>Electrocatalysis</i> , 2013, 4, 76-84.	3.0	30
108	Electroreduction of Oxygen in Polymer Electrolyte Fuel Cells by Activated Carbon Coated Cobalt Nanocrystallites Produced by Electric Arc Discharge. <i>Chemistry of Materials</i> , 1997, 9, 784-790.	6.7	29

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109	Synthesis of fcc Mg ₅₀ Ti ₅₀ H alloys by high energy ball milling: Structure and electrochemical hydrogen storage properties. <i>Journal of Power Sources</i> , 2010, 195, 4370-4374.	7.8	29
110	In situ x-ray absorption spectroscopy study of underpotential deposition of copper on platinum (100). <i>Electrochimica Acta</i> , 1992, 37, 1977-1982.	5.2	28
111	Functionally Modified Macroporous Membrane Prepared by using Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2007, 17, 443-450.	14.9	28
112	Synthesis of Cu ₂ Pd alloy thin films by co-electrodeposition. <i>Electrochimica Acta</i> , 2011, 56, 7397-7403.	5.2	28
113	Increase of specific surface area of metal hydrides by lixiviation. <i>Journal of Alloys and Compounds</i> , 1998, 266, 307-310.	5.5	27
114	Electrolytic Production of Aluminum Using Mechanically Alloyed Cu ₂ Al ₂ Ni ₂ Fe-Based Materials as Inert Anodes. <i>Journal of the Electrochemical Society</i> , 2010, 157, E173.	2.9	27
115	3D Interdigitated Microsupercapacitors with Record Areal Cell Capacitance. <i>Small</i> , 2019, 15, 1901224.	10.0	27
116	Ionomers for proton exchange membrane fuel cells by sulfonation of novel dendritic multiblock copoly(ether _s ulfone)s. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5461-5473.	2.3	26
117	Influence of Pd on the structure and electrochemical hydrogen storage properties of Mg ₅₀ Ti ₅₀ alloy prepared by ball milling. <i>Electrochimica Acta</i> , 2010, 55, 611-619.	5.2	26
118	Cold sprayed Cu ₂ Ni ₂ Fe anode for Al production. <i>Corrosion Science</i> , 2015, 90, 259-265.	6.6	26
119	High Energy Ballmilled Pt-Mo Catalysts for Polymer Electrolyte Fuel Cells and Their Tolerance to CO. <i>Journal of the Electrochemical Society</i> , 2000, 147, 3989.	2.9	25
120	Atypical Properties of FIB-Patterned RuO ₂ Nanosupercapacitors. <i>ACS Energy Letters</i> , 2017, 2, 1734-1739.	17.4	25
121	High energy ball-milled Ti ₂ RuFe electrocatalyst for hydrogen evolution in the chlorate industry. <i>Journal of Materials Research</i> , 1997, 12, 1492-1500.	2.6	24
122	Hydrogen Absorption in Thermally Prepared RuO ₂ Electrode. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, E40.	2.2	24
123	Concept for Charge Storage in Electrochemical Capacitors with Functionalized Carbon Electrodes. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A202.	2.2	24
124	Defective Metal-Organic Framework-808@Polyaniline Composite Materials for High Capacitance Retention Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 1235-1243.	5.1	24
125	Iron atomic packing in Fe-Ru superlattices by x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1993, 47, 2344-2352.	3.2	23
126	Composition and thermal-annealing-induced short-range ordering changes in amorphous hydrogenated silicon carbide films as investigated by extended x-ray-absorption fine structure and infrared absorption. <i>Physical Review B</i> , 1995, 51, 4903-4914.	3.2	23

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127	Comparative study on the structure and electrochemical hydriding properties of MgTi, Mg _{0.5} Ni _{0.5} Ti and MgTi _{0.5} Ni _{0.5} alloys prepared by high energy ball milling. <i>Journal of Power Sources</i> , 2011, 196, 1561-1568.	7.8	23
128	Preparation and corrosion behavior of nanocrystalline iron gradient materials produced by powder processing. <i>Journal of Materials Processing Technology</i> , 2002, 121, 383-389.	6.3	22
129	Effect of the nanostructure on the CO poisoning rate of platinum. <i>Electrochemistry Communications</i> , 2009, 11, 834-837.	4.7	22
130	Structure and valence properties of ceria films synthesized by laser ablation under reducing atmosphere. <i>Materials Research Express</i> , 2014, 1, 015704.	1.6	22
131	AFM observation of surface activation of ruthenium oxide electrodes during hydrogen evolution. <i>Journal of Electroanalytical Chemistry</i> , 1997, 429, 185-192.	3.8	21
132	X-ray photoelectron spectroscopy studies of the electrochemically n-doped state of a conducting polymer. <i>Synthetic Metals</i> , 2002, 132, 71-79.	3.9	21
133	Structural and Electrochemical Hydriding Characteristics of Mg-Ti-Based Alloys Prepared by High Energy Ballmilling. <i>Journal of the Electrochemical Society</i> , 2009, 156, A967.	2.9	21
134	Synthesis and Characterization of Well Aligned Ru Nanowires and Nanotubes. <i>ECS Transactions</i> , 2010, 25, 3-11.	0.5	20
135	Consolidation of mechanically alloyed Cu-Ni-Fe material by spark plasma sintering and evaluation as inert anode for aluminum electrolysis. <i>Journal of Alloys and Compounds</i> , 2013, 580, 256-261.	5.5	20
136	Hydrogen Bubble Templating of Fractal Ni Catalysts for Water Oxidation in Alkaline Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 5734-5743.	5.1	20
137	Selected Dissolution of Aluminum Initiated by Atomic Force Microscope Tip-Surface Interaction. <i>Journal of the Electrochemical Society</i> , 1994, 141, L43-L45.	2.9	19
138	Porous RuO _x N _y S _z Electrodes for Microsupercapacitors and Microbatteries with Enhanced Areal Performance. <i>ACS Energy Letters</i> , 2021, 6, 131-139.	17.4	19
139	Metastable AuRh _{100-x} Thin Films Prepared by Pulsed Laser Deposition for the Electrooxidation of Methanol. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5262-5269.	3.1	18
140	CO ₂ electroreduction at AuCu _{1-x} obtained by pulsed laser deposition in O ₂ atmosphere. <i>Electrochimica Acta</i> , 2017, 246, 115-122.	5.2	18
141	X-ray absorption spectroscopy: A fluorescence detection system based on a plastic scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 294, 382-390.	1.6	17
142	Electrooxidation of Ammonia at Tuned (100)Pt Surfaces by using Epitaxial Thin Films. <i>ChemElectroChem</i> , 2015, 2, 1187-1198.	3.4	17
143	In-situ time-resolved EXAFS study of the structural modifications occurring in nickel oxide electrodes between their fully oxidized and reduced states. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 305, 83-95.	0.1	16
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