Michel L Trudeau

List of Publications by Year
in descending order

177 papers	6,485 citations	71102 41 h-index	82547 72 g-index
185 all docs	185 docs citations	185 times ranked	6960 citing authors

#	Article	IF	Citations
1	Unveiling the Cation Exchange Reaction between the NASICON Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solid Electrolyte and the pyr13TFSI Ionic Liquid. Journal of the American Chemical Society, 2022, 144, 3442-3448.	13.7	15
2	Thermal evolution of NASICON type solid-state electrolytes with lithium at high temperature via in situ scanning electron microscopy. Chemical Communications, 2021, 57, 11076-11079.	4.1	8
3	Dilute-antimonide GaSbN/GaN dots-in-wire heterostructures grown by molecular beam epitaxy: Structural and optical properties. Applied Physics Letters, 2021, 118, .	3.3	3
4	EDS of Lithium Materials from 0.5 to 30 keV. Microscopy and Microanalysis, 2021, 27, 1868-1869.	0.4	2
5	Nanoboxes with a porous MnO core and amorphous TiO₂ shell as a mediator for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2021, 9, 4952-4961.	10.3	26
6	Design Parameters for Enhanced Performance of Li_{1+x}Ni_{0.6}Co_{0.2}Mn_{0.2}O₂ at High Voltage: A Phase Transformation Study by In Situ XRD. Journal of the Electrochemical Society, 2021, 168, 100526.	2.9	7
7	Formation of Mn hydrides from bis(trimethylsilylmethyl) Mn(II): A DFT study. Polyhedron, 2020, 178, 114355.	2.2	0
8	Synthesis and Performance of MOF-Based Non-Noble Metal Catalysts for the Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells: A Review. Nanomaterials, 2020, 10, 1947.	4.1	22
9	Determination of Binary Diffusivities in Concentrated Lithium Battery Electrolytes via NMR and Conductivity Measurements. Journal of Physical Chemistry C, 2020, 124, 24624-24630.	3.1	7
10	On high-temperature evolution of passivation layer in Liâ€“10 wt % Mg alloy via in situ SEM-EBSD. Science Advances, 2020, 6, .	10.3	13
11	Protection of LiFePO4 against Moisture. Materials, 2020, 13, 942.	2.9	8
12	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. Nano Letters, 2020, 20, 1607-1613.	9.1	85
13	Application of Magnetic Resonance Techniques to the In Situ Characterization of Li-Ion Batteries: A Review. Materials, 2020, 13, 1694.	2.9	22
14	A low-cost and Li-rich organic coating on a Li₄Ti₅O₁₂anode material enabling Li-ion battery cycling at subzero temperatures. Materials Advances, 2020, 1, 854-872.	5.4	7
15	Hydrogen Storage for Mobility: A Review. Materials, 2019, 12, 1973.	2.9	461
16	EELS Monitoring of Beam-Induced Dynamic Transformation of Lithium Materials at 30 keV. Microscopy and Microanalysis, 2019, 25, 2168-2169.	0.4	0
17	A manganese hydride molecular sieve for practical hydrogen storage under ambient conditions. Energy and Environmental Science, 2019, 12, 1580-1591.	30.8	41
18	Computational study of H2 binding to MH3 (M = Ti, V, or Cr). Dalton Transactions, 2019, 48, 4921-4930.	3.3	2

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19	A versatile method for grafting polymers onto Li4Ti5O12 particles applicable to lithium-ion batteries. Journal of Power Sources, 2019, 421, 116-123.	7.8	10
20	Multi-carbonyl molecules immobilized on high surface area carbon by diazonium chemistry for energy storage applications. Electrochimica Acta, 2019, 308, 99-114.	5.2	19
21	Boosting Ultra-Fast Charge Battery Performance: Filling Porous nanoLi4Ti5O12 Particles with 3D Network of N-doped Carbons. Scientific Reports, 2019, 9, 16871.	3.3	13
22	Layered oxides-LiNi1/3Co1/3Mn1/3O2 as anode electrode for symmetric rechargeable lithium-ion batteries. Journal of Power Sources, 2018, 378, 516-521.	7.8	24
23	A photochemical diode artificial photosynthesis system for unassisted high efficiency overall pure water splitting. Nature Communications, 2018, 9, 1707.	12.8	123
24	The Role of Metal Disulfide Interlayer in Liâ€“S Batteries. Journal of Physical Chemistry C, 2018, 122, 1014-1023.	3.1	40
25	Ultra-low cost and highly stable hydrated FePO 4 anodes for aqueous sodium-ion battery. Journal of Power Sources, 2018, 374, 211-216.	7.8	44
26	The Joy of Nanoscale Imaging and Spectroscopy in a Low Accelerating Voltage Scanning Transmitted Electron Microscope. Microscopy and Microanalysis, 2018, 24, 640-641.	0.4	0
27	Application of Operando X-ray Diffractometry in Various Aspects of the Investigations of Lithium/Sodium-Ion Batteries. Energies, 2018, 11, 2963.	3.1	19
28	EELS Analysis of Bulk Plasmon Harmonics of Aluminium at 30 keV. Microscopy and Microanalysis, 2018, 24, 464-465.	0.4	3
29	High Capacity and High Efficiency Maple Tree-Biomass-Derived Hard Carbon as an Anode Material for Sodium-Ion Batteries. Materials, 2018, 11, 1294.	2.9	34
30	Making of an Industry-Friendly Artificial Photosynthesis Device. ACS Energy Letters, 2018, 3, 2230-2231.	17.4	48
31	In Situ TEM Investigation of Electron Irradiation Induced Metastable States in Lithium-Ion Battery Cathodes: Li₂FeSiO₄ versus LiFePO₄. ACS Applied Energy Materials, 2018, 1, 3180-3189.	5.1	20
32	New Avenue for Limiting Degradation in NanoLi₄Ti₅O₁₂ for Ultrafast-Charge Lithium-Ion Batteries: Hybrid Polymerâ€“Inorganic Particles. Nano Letters, 2017, 17, 7372-7379.	9.1	17
33	Electron Dose Management for High Angle Annular Dark Field Scanning Transmission Electron Microscope Tomography of Beam Sensitive Materials. Microscopy and Microanalysis, 2016, 22, 1294-1295.	0.4	0
34	Synthesis and Electrochemical Evaluation of Multivalent Vanadium Hydride Gels for Lithium and Hydrogen Storage. Journal of Physical Chemistry C, 2016, 120, 11407-11414.	3.1	5
35	Atomicâ€Scale Origin of Longâ€Term Stability and High Performance of pâ€GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. Advanced Materials, 2016, 28, 8388-8397.	21.0	106
36	Lowâ€Temperature Synthesis and Electrochemical Properties of Mesoporous Titanium Oxysulfides. ChemElectroChem, 2016, 3, 256-265.	3.4	3

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37	High‐Pressure Raman and Calorimetry Studies of Vanadium(III) Alkyl Hydrides for Kubas‐Type Hydrogen Storage. ChemPhysChem, 2016, 17, 822-828.	2.1	6
38	Group III-nitride nanowire structures for photocatalytic hydrogen evolution under visible light irradiation. APL Materials, 2015, 3, .	5.1	42
39	UV‐Initiated Synthesis of Electroactive High Surface Area Ta and Ti Mesoporous Oxides Composites with Polypyrrole Nanowires within the Pores. ChemNanoMat, 2015, 1, 276-284.	2.8	1
40	Synthesis and Solid‐State NMR Studies of Proton‐Conducting Mesoporous Niobium Oxide Polymer Composites with Nafion‐Like Thermal Durability. ChemNanoMat, 2015, 1, 430-437.	2.8	1
41	Secondary Electron Yield at High Voltages up to 300 keV. Microscopy and Microanalysis, 2015, 21, 1705-1706.	0.4	2
42	Synthesis of phase-pure Li 2 MnSiO 4 @C porous nanoboxes for high-capacity Li-ion battery cathodes. Nano Energy, 2015, 12, 305-313.	16.0	31
43	Dye-sensitized InGaN nanowire arrays for efficient hydrogen production under visible light irradiation. Nanotechnology, 2015, 26, 285401.	2.6	14
44	Defect-engineered GaN:Mg nanowire arrays for overall water splitting under violet light. Applied Physics Letters, 2015, 106, .	3.3	27
45	Thermodynamically neutral Kubas-type hydrogen storage using amorphous Cr(<scp>iii</scp>) alkyl hydride gels. Physical Chemistry Chemical Physics, 2015, 17, 9480-9487.	2.8	24
46	Proton Conductivity of Naphthalene Sulfonate Formaldehyde Resin‐Doped Mesoporous Niobium and Tantalum Oxide Composites. ChemSusChem, 2015, 8, 301-309.	6.8	6
47	Nanoporous twinned PtPd with highly catalytic activity and stability. Journal of Materials Chemistry A, 2015, 3, 2050-2056.	10.3	43
48	Synthesis and electrochemical properties of mesoporous titanium oxide with polythiophene nanowires in the pores. Microporous and Mesoporous Materials, 2014, 194, 52-59.	4.4	5
49	On the path to bulk FeH2: Synthesis and magnetic properties of amorphous iron (II) hydride. Journal of Alloys and Compounds, 2014, 590, 199-204.	5.5	9
50	Polymer composites with a large nanofiller content: a case study involving epoxy. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 434-443.	2.9	29
51	Hollow Melon‐Seed‐Shaped Lithium Iron Phosphate Micro‐and Sub‐Micrometer Plates for Lithium‐Ion Batteries. ChemSusChem, 2014, 7, 1618-1622.	6.8	16
52	Microscopy and microanalysis of complex nanosized strengthening precipitates in new generation commercial Al–Cu–Li alloys. Journal of Microscopy, 2014, 255, 128-137.	1.8	28
53	Variable temperature proton conductivity of mesoporous titanium oxides doped with naphthalene sulfonate formaldehyde resin. Microporous and Mesoporous Materials, 2014, 190, 284-291.	4.4	9
54	High‐resolution imaging and X‐ray microanalysis in the FE‐SEM. Surface and Interface Analysis, 2014, 46, 1286-1290.	1.8	1

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55	Effect of Synthesis Parameters on the Electrochemical Properties of Highâ€Surfaceâ€Area Mesoporous Titanium Oxide with Polypyrrole Nanowires in the Pores. ChemElectroChem, 2014, 1, 2153-2162.	3.4	3
56	In-Situ Synthesis of New Electrode Materials for Li-Ions Batteries using a cold FEG Environmental HRTEM. Microscopy and Microanalysis, 2014, 20, 1522-1523.	0.4	0
57	One-Step Overall Water Splitting under Visible Light Using Multiband InGaN/GaN Nanowire Heterostructures. ACS Nano, 2013, 7, 7886-7893.	14.6	190
58	Titanium hydrazide gels for Kubas-type hydrogen storage. Journal of Materials Chemistry A, 2013, 1, 1947.	10.3	20
59	Variations in nanomechanical properties of back-end Zrâ€“2.5Nb pressure tube material. Journal of Nuclear Materials, 2013, 442, 116-123.	2.7	7
60	Review and analysis of nanostructured olivine-based lithium recheargeable batteries: Status and trends. Journal of Power Sources, 2013, 232, 357-369.	7.8	173
61	Current density dependence of peroxide formation in the Liâ€“O2 battery and its effect on charge. Energy and Environmental Science, 2013, 6, 1772.	30.8	586
62	Observation of TiH₅ and TiH₇ in Bulk-Phase TiH₃ Gels for Kubas-Type Hydrogen Storage. Chemistry of Materials, 2013, 25, 4765-4771.	6.7	15
63	Acquisition parameters optimization of a transmission electron forward scatter diffraction system in a coldâ€field emission scanning electron microscope for nanomaterials characterization. Scanning, 2013, 35, 375-386.	1.5	27
64	HR-STEM In-Situ Mechanical Testing of FIB Samples. Microscopy and Microanalysis, 2012, 18, 772-773.	0.4	0
65	High Resolution Imaging and X-Ray Microanalysis with STEM in the FE-SEM. Microscopy and Microanalysis, 2012, 18, 390-391.	0.4	41
66	EDS Spectrum Imaging with Fast Fourier Transforms. Microscopy and Microanalysis, 2012, 18, 1008-1009.	0.4	0
67	Determination of EDS Detection Limits of Nanoparticle Using Monte Carlo Simulations. Microscopy and Microanalysis, 2012, 18, 1016-1017.	0.4	3
68	Synthesis of New Electrode Materials for Li-Ions Batteries using an Environmental HRTEM.. Microscopy and Microanalysis, 2012, 18, 1476-1477.	0.4	0
69	Evaluation of strain rate sensitivity by constant load nanoindentation. Journal of Materials Science, 2012, 47, 7189-7200.	3.7	51
70	Multivalent Manganese Hydrazide Gels for Kubas-Type Hydrogen Storage. Chemistry of Materials, 2012, 24, 1629-1638.	6.7	24
71	Contribution of a New Generation Field-Emission Scanning Electron Microscope in the Understanding of a 2099 Al-Li Alloy. Microscopy and Microanalysis, 2012, 18, 1393-1409.	0.4	20
72	Microstructural and electrochemical investigation of functional nanostructured TiO2 anode for Li-ions batteries. Journal of Power Sources, 2012, 202, 357-363.	7.8	13

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73	New advanced cathode material: LiMnPO4 encapsulated with LiFePO4. Journal of Power Sources, 2012, 204, 177-181.	7.8	58
74	Improvement in the Characterization of the 2099 Al-Li Alloy by FE-SEM. , 2012, , 23-28.		0
75	Kubas-Type Hydrogen Storage in V(III) Polymers Using Tri- and Tetradentate Bridging Ligands. Journal of the American Chemical Society, 2011, 133, 4955-4964.	13.7	26
76	Hydride-Induced Amplification of Performance and Binding Enthalpies in Chromium Hydrazide Gels for Kubas-Type Hydrogen Storage. Journal of the American Chemical Society, 2011, 133, 15434-15443.	13.7	36
77	In situ high-resolution transmission electron microscopy synthesis observation of nanostructured carbon coated LiFePO4. Journal of Power Sources, 2011, 196, 7383-7394.	7.8	52
78	Fabrication and properties of mechanically milled alumina/aluminum nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7605-7614.	5.6	106
79	Functionalized Porous Silicas with Unsaturated Early Transition Metal Moieties as Hydrogen Storage Materials: Comparison of Metal and Oxidation State. Journal of Physical Chemistry C, 2010, 114, 8651-8660.	3.1	18
80	Design and Synthesis of Vanadium Hydrazide Gels for Kubas-Type Hydrogen Adsorption: A New Class of Hydrogen Storage Materials. Journal of the American Chemical Society, 2010, 132, 11792-11798.	13.7	44
81	Multifunctional Fe₃O₄â˜Au/Porous Silica@Fluorescein Core/Shell Nanoparticles with Enhanced Fluorescence Quantum Yield. Journal of Physical Chemistry C, 2010, 114, 18313-18317.	3.1	33
82	Cyclopentadienyl chromium hydrazide gels for Kubas-type hydrogen storage. Chemical Communications, 2010, 46, 3206.	4.1	19
83	Investigation of the catalytic activities of sulfated mesoporous Ti, Nb, and Ta oxides in 1-hexene isomerization. Journal of Catalysis, 2009, 266, 1-8.	6.2	16
84	Towards a more comprehensive microstructural analysis of Zrâ€“2.5Nb pressure tubing using image analysis and electron backscattered diffraction (EBSD). Journal of Nuclear Materials, 2009, 393, 162-174.	2.7	24
85	Optimization of hydrogen storage capacity in silica-supported low valent Ti systems exploiting Kubas binding of hydrogen. Journal of Organometallic Chemistry, 2009, 694, 2793-2800.	1.8	19
86	Bis(benzene) and Bis(cyclopentadienyl) V and Cr Doped Mesoporous Silica with High Enthalpies of Hydrogen Adsorption. Journal of Physical Chemistry C, 2009, 113, 17240-17246.	3.1	12
87	What is the Best Beam Energy for X-Ray Microanalysis of Nanomaterials in Electron Microscopy?. Microscopy and Microanalysis, 2009, 15, 460-461.	0.4	0
88	Fe Distribution in Zr-2.5Nb Pressure Tubes Having Variable Deformation Properties. Microscopy and Microanalysis, 2009, 15, 482-483.	0.4	0
89	Sulfated Mesoporous Tantalum Oxides in the Shape Selective Synthesis of Linear Alkyl Benzene. Angewandte Chemie - International Edition, 2008, 47, 4896-4899.	13.8	26
90	H₂ Storage Materials (22KJ/mol) Using Organometallic Ti Fragments as Ïƒ-H₂ Binding Sites. Journal of the American Chemical Society, 2008, 130, 6992-6999.	13.7	86

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91	Hydrogen Storage in Mesoporous Titanium Oxideâ^'Alkali Fulleride Composites. Inorganic Chemistry, 2008, 47, 2477-2484.	4.0	13
92	Nanostructured polymer microcomposites: A distinct class of insulating materials. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 90-105.	2.9	49
93	¹⁷O and ¹⁵N Solid State NMR Studies on Ligand-Assisted Templating and Oxygen Coordination in the Walls of Mesoporous Nb, Ta and Ti Oxides. Journal of the American Chemical Society, 2008, 130, 15726-15731.	13.7	13
94	Nanostructured Materials for Gas Reactive Applications. , 2007, , 365-437.		5
95	Hydrogen Storage in Microporous Titanium Oxides Reduced by Early Transition Metal Organometallic Sandwich Compounds. Chemistry of Materials, 2007, 19, 1388-1395.	6.7	35
96	Compositional Effects in Ru, Pd, Pt, and Rh-Doped Mesoporous Tantalum Oxide Catalysts for Ammonia Synthesis. Inorganic Chemistry, 2007, 46, 5084-5092.	4.0	26
97	A Solid-State17O NMR Study of Local Order and Crystallinity in Amine-Templated Mesoporous Nb Oxide. Angewandte Chemie - International Edition, 2007, 46, 2635-2638.	13.8	11
98	A Solid-State 17O NMR Study of Local Order and Crystallinity in Amine-Templated Mesoporous Nb Oxide. Angewandte Chemie, 2007, 119, 2689-2692.	2.0	4
99	Sulfated and Phosphated Mesoporous Nb Oxide in the Benzylation of Anisole and Toluene by Benzyl Alcohol. Journal of the American Chemical Society, 2006, 128, 13996-13997.	13.7	67
100	Electroactive mesoporous tantalum oxide catalysts for nitrogen activation and ammonia synthesis. Chemical Communications, 2006, , 1918.	4.1	31
101	Hydrogen Storage in Chemically Reducible Mesoporous and Microporous Ti Oxides. Journal of the American Chemical Society, 2006, 128, 11740-11741.	13.7	108
102	Solid-State23Na and7Li NMR Investigations of Sodium- and Lithium-Reduced Mesoporous Titanium Oxides. Inorganic Chemistry, 2006, 45, 1828-1838.	4.0	16
103	Mesoporous tantalum oxide photocatalysts for Schrauzer-type conversion of dinitrogen to ammonia. Canadian Journal of Chemistry, 2005, 83, 308-314.	1.1	12
104	Electronic Properties and Solid-State 87Rb and 13C NMR Studies of Mesoporous Tantalum Oxide Rubidium Fulleride Composites. Chemistry of Materials, 2005, 17, 1467-1478.	6.7	11
105	Nanostructured Gold Thin Films Prepared by Pulsed Laser Deposition. Journal of Materials Research, 2004, 19, 950-958.	2.6	33
106	Synthesis and Electrochemistry of Li- and Na-Fulleride Doped Mesoporous Ta Oxides. Chemistry of Materials, 2004, 16, 2886-2894.	6.7	15
107	Mesostructured Fe Oxide Synthesized by Ligand-Assisted Templating with a Chelating Triol Surfactant. Journal of Physical Chemistry B, 2004, 108, 5211-5216.	2.6	24
108	Introductory remarks on nanodielectrics. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 808-818.	2.9	158

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109	Structural and Spectroscopic Studies on Mesoporous Tantalum Oxideâ€“Sodium Fulleride Composites with Conducting Fulleride Columns in the Pores. Advanced Functional Materials, 2003, 13, 671-681.	14.9	9
110	Compositional and2H NMR Studies of Bis(benzene)chromium Composites of Mesoporous Vanadiumâ^'Niobium Mixed Oxides. Inorganic Chemistry, 2003, 42, 335-347.	4.0	11
111	Mesoporous Ta oxide reduced with bis(toluene)Ti: electronic properties and mechanistic considerations of nitrogen cleavage on the low valent surface. Dalton Transactions, 2003, , 4115-4120.	3.3	16
112	Synthesis and magnetic properties of decamethylsamarocene composites of mesoporous niobium oxide. Journal of Materials Chemistry, 2003, 13, 75-79.	6.7	9
113	Spontaneous nitride formation in the reaction of mesoporous titanium oxide with bis(toluene) titanium in a nitrogen atmosphere. Studies in Surface Science and Catalysis, 2002, 141, 661-668.	1.5	2
114	Room-Temperature Ammonia Formation from Dinitrogen on a Reduced Mesoporous Titanium Oxide Surface with Metallic Properties. Journal of the American Chemical Society, 2002, 124, 9567-9573.	13.7	51
115	Compositional Studies on the Electronic and Magnetic Properties of Potassium Fulleride Mesoporous Niobium Oxide Composites. Chemistry of Materials, 2002, 14, 2774-2781.	6.7	13
116	Comparison of Partly Revealed Anisotropic Microstructures Using Grid Intersepts as Applied to Zirconium Tubes. Microscopy and Microanalysis, 2002, 8, 1304-1305.	0.4	0
117	Synthesis of a Stable Metallic Niobium Oxide Molecular Sieve and Subsequent Room Temperature Activation of Dinitrogen. Advanced Functional Materials, 2002, 12, 174.	14.9	22
118	Microstructure and physical properties of nanostructured tin oxide thin films grown by means of pulsed laser deposition. Thin Solid Films, 2002, 419, 230-236.	1.8	103
119	Synthesis and Characterization of a New Family of Electroactive Alkali Metal Doped Mesoporous Nb, Ta, and Ti Oxides and Evidence for an Anderson Transition in Reduced Mesoporous Titanium Oxide. Inorganic Chemistry, 2001, 40, 2088-2095.	4.0	36
120	Bis(cyclopentadienyl)chromium and Bis(cyclopentadienylvanadium) Composites of Mesoporous Niobium Oxide with Pseudo-One-Dimensional Organometallic Wires in the Pores. Chemistry of Materials, 2001, 13, 4808-4816.	6.7	12
121	Superparamagnetic and spin glass behavior in mesoporous niobium oxide bis(cyclopentadienyl)nickel composites. Journal of Materials Chemistry, 2001, 11, 1755-1759.	6.7	18
122	Synthesis and Electronic Properties of Low-Dimensional Bis(benzene) Vanadium Reduced Mesoporous Niobium Oxide Composites. Inorganic Chemistry, 2001, 40, 6463-6468.	4.0	15
123	Unusual Conductivity Patterns in Reduced Mesoporous Titanium, Niobium, and Tantalum Oxides with One-Dimensional Potassium Fulleride Wires in the Channels. Chemistry of Materials, 2001, 13, 2730-2741.	6.7	12
124	Pulsed laser deposition of nanostructured tin oxide films for gas sensing applications. Sensors and Actuators B: Chemical, 2001, 77, 383-388.	7.8	79
125	Synthesis and Electronic Properties of Potassium Fulleride Nanowires in a Mesoporous Niobium Oxide Host. Advanced Materials, 2001, 13, 29-33.	21.0	45
126	Observation of a Double Maximum in the Dependence of Conductivity on Oxidation State in Potassium Fulleride Nanowires Supported by a Mesoporous Niobium Oxide Host Lattice. Advanced Materials, 2001, 13, 561-565.	21.0	41

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127	Growth of carbon nanotubes on Ohmically heated carbon paper. Chemical Physics Letters, 2001, 342, 503-509.	2.6	50
128	Synthesis and Electronic Properties of Reduced Mesoporous Sodium Niobium Oxides. Advanced Materials, 2000, 12, 337-341.	21.0	39
129	Electronic Properties of Novel Mixed Oxidation-State Bis-Arene Chromium Nanowires Supported by a Mesoporous Niobium Oxide Host. Advanced Materials, 2000, 12, 1036-1040.	21.0	32
130	Synthesis and Magnetic Tuning in Superparamagnetic Cobaltocene-Mesoporous Niobium Oxide Composites. Advanced Materials, 2000, 12, 1339-1342.	21.0	37
131	X-ray Photoelectron Spectroscopy and Magnetic Studies on the Effect of Pore Size, Wall Thickness, and Wall Composition on Superparamagnetic Cobaltocene Mesoporous Nb, Ta, and Ti Composites. Inorganic Chemistry, 2000, 39, 5901-5908.	4.0	20
132	Advanced Materials for Energy Storage. MRS Bulletin, 1999, 24, 23-26.	3.5	56
133	Phase Changes and Electronic Properties in Toroidal Mesoporous Molybdenum Oxides. Angewandte Chemie - International Edition, 1999, 38, 1471-1475.	13.8	46
134	Nanocrystalline Fe and Fe-riched Fe-Ni through electrodeposition. Scripta Materialia, 1999, 12, 55-60.	0.5	44
135	Redox Properties of Nanocrystalline Cu-Doped Cerium Oxide Studied by Isothermal Gravimetric Analysis and X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 8858-8863.	2.6	54
136	Surface reactivity of nanocrystalline Fe87Zr7Cu1B5 alloys. Scripta Materialia, 1997, 9, 217-220.	0.5	0
137	Nanostructured material induced by a 400 W yag laser. Scripta Materialia, 1997, 9, 221-224.	0.5	1
138	The Nature of Cobalt Species in Coâ^'ZSM-5 NO Emission Control Catalysts. The Journal of Physical Chemistry, 1996, 100, 13662-13666.	2.9	41
139	Nanocrystalline materials in catalysis and electrocatalysis: Structure tailoring and surface reactivity. Scripta Materialia, 1996, 7, 245-258.	0.5	73
140	XPS investigation of surface oxidation and reduction in nanocrystalline CexLa1 â^'xO2 â^'y. Surface and Interface Analysis, 1995, 23, 219-226.	1.8	83
141	Engineering nanocrystalline materials from amorphous precursors. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 204, 233-239.	5.6	7
142	Influence of Loading on the Activity and Stability of Heatâ€Treated Carbonâ€Supported Cobalt Phthalocyanine Electrocatalysts in Solid Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 1995, 142, 1162-1168.	2.9	49
143	Nanocrystalline Ni-Mo alloys and their application in electrocatalysis. Journal of Materials Research, 1994, 9, 2998-3008.	2.6	55
144	Graphitization and particle size analysis of pyrolyzed cobalt phthalocyanine/carbon catalysts for oxygen reduction in fuel cells. Journal of Materials Research, 1994, 9, 3203-3209.	2.6	54

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145	Structural and magnetic characterization of granular Y₁Ba₂Cu₃O_{7â˜Î´} nanocrystalline powders. Journal of Materials Research, 1994, 9, 535-540.	2.6	63
146	Deformation induced crystallization due to instability in amorphous FeZr alloys. Applied Physics Letters, 1994, 64, 3661-3663.	3.3	27
147	Hydrogen Absorption in Amorphous and Nano-Crystalline FeTi*. Zeitschrift Fur Physikalische Chemie, 1994, 183, 45-49.	2.8	30
148	Electrochemical Studies of Amorphous Ni₆₄Zr₃₆ Hydride Electrodes*. Zeitschrift Fur Physikalische Chemie, 1994, 183, 365-370.	2.8	8
149	Fabrication of nanocrystalline iron-based alloys by the mechanical crystallization of amorphous materials. Scripta Materialia, 1993, 2, 361-368.	0.5	21
150	Pyrolyzed Cobalt Phthalocyanine as Electrocatalyst for Oxygen Reduction. Journal of the Electrochemical Society, 1993, 140, 1974-1981.	2.9	131
151	Amorphous and nanocrystalline Feâ€“Ti prepared by ball milling. Journal of Materials Research, 1993, 8, 3059-3068.	2.6	94
152	Electrochemical Studies of Hydrogen Storage in Amorphous Ni64Zr36 Alloy. Journal of the Electrochemical Society, 1993, 140, 579-584.	2.9	31
153	Anisotropic electron diffusion and weak localization in Cu/Al multilayers. Physical Review B, 1993, 48, 12202-12216.	3.2	8
154	Structural transformations and metastable phases produced by mechanical deformations in the Biâ€“Srâ€“Caâ€“Cuâ€“O superconducting system. Journal of Materials Research, 1993, 8, 1258-1267.	2.6	5
155	Nanocrystalline Fe-(Co,Ni)-Si-B: The mechanical crystallization of amorphous alloys and the effects on electrocatalytic reactions. Physical Review B, 1992, 45, 4626-4636.	3.2	62
156	The fcc to hcp transition induced by mechanical deformations in the Niâ€“Ru system. Journal of Materials Research, 1992, 7, 2412-2417.	2.6	13
157	The oxidation of nanocrystalline FeTi hydrogen storage compounds. Scripta Materialia, 1992, 1, 457-464.	0.5	26
158	Low Hydrogen Overpotential Nanocrystalline Niâ€Mo Cathodes for Alkaline Water Electrolysis. Journal of the Electrochemical Society, 1991, 138, 1316-1321.	2.9	118
159	The contribution of strain and plastic deformations to the amorphization reaction of Niî—¸Zr alloys by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 134, 1354-1360.	5.6	17
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