

Michel L Trudeau

List of Publications by Year in descending order

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177
papers

6,485
citations

71061

41
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82499

72
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185
all docs

185
docs citations

185
times ranked

6960
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the Cation Exchange Reaction between the NASICON $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ Solid Electrolyte and the pyr13TFSI Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2022, 144, 3442-3448.	6.6	15
2	Thermal evolution of NASICON type solid-state electrolytes with lithium at high temperature <i>via in situ</i> scanning electron microscopy. <i>Chemical Communications</i> , 2021, 57, 11076-11079.	2.2	8
3	Dilute-antimonide GaSbN/GaN dots-in-wire heterostructures grown by molecular beam epitaxy: Structural and optical properties. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	3
4	EDS of Lithium Materials from 0.5 to 30 keV. <i>Microscopy and Microanalysis</i> , 2021, 27, 1868-1869.	0.2	2
5	Nanoboxes with a porous MnO core and amorphous TiO_2 shell as a mediator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4952-4961.	5.2	26
6	Design Parameters for Enhanced Performance of $\text{Li}_{1+x}\text{Ni}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ at High Voltage: A Phase Transformation Study by In Situ XRD. <i>Journal of the Electrochemical Society</i> , 2021, 168, 100526.	1.3	7
7	Formation of Mn hydrides from bis(trimethylsilylmethyl) Mn(II): A DFT study. <i>Polyhedron</i> , 2020, 178, 114355.	1.0	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. <i>Nanomaterials</i> , 2020, 10, 1947.	1.9	22
9	Determination of Binary Diffusivities in Concentrated Lithium Battery Electrolytes via NMR and Conductivity Measurements. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24624-24630.	1.5	7
10	On high-temperature evolution of passivation layer in Li-10 wt % Mg alloy <i>via in situ</i> SEM-EBSD. <i>Science Advances</i> , 2020, 6, .	4.7	13
11	Protection of LiFePO_4 against Moisture. <i>Materials</i> , 2020, 13, 942.	1.3	8
12	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode <i>via in-Situ</i> Scanning Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 1607-1613.	4.5	85
13	Application of Magnetic Resonance Techniques to the In Situ Characterization of Li-Ion Batteries: A Review. <i>Materials</i> , 2020, 13, 1694.	1.3	22
14	A low-cost and Li-rich organic coating on a $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode material enabling Li-ion battery cycling at subzero temperatures. <i>Materials Advances</i> , 2020, 1, 854-872.	2.6	7
15	Hydrogen Storage for Mobility: A Review. <i>Materials</i> , 2019, 12, 1973.	1.3	461
16	EELS Monitoring of Beam-Induced Dynamic Transformation of Lithium Materials at 30 keV. <i>Microscopy and Microanalysis</i> , 2019, 25, 2168-2169.	0.2	0
17	A manganese hydride molecular sieve for practical hydrogen storage under ambient conditions. <i>Energy and Environmental Science</i> , 2019, 12, 1580-1591.	15.6	41
18	Computational study of H_2 binding to MH_3 (M = Ti, V, or Cr). <i>Dalton Transactions</i> , 2019, 48, 4921-4930.	1.6	2

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19	A versatile method for grafting polymers onto Li ₄ Ti ₅ O ₁₂ particles applicable to lithium-ion batteries. Journal of Power Sources, 2019, 421, 116-123.	4.0	10
20	Multi-carbonyl molecules immobilized on high surface area carbon by diazonium chemistry for energy storage applications. Electrochimica Acta, 2019, 308, 99-114.	2.6	19
21	Boosting Ultra-Fast Charge Battery Performance: Filling Porous nanoLi ₄ Ti ₅ O ₁₂ Particles with 3D Network of N-doped Carbons. Scientific Reports, 2019, 9, 16871.	1.6	13
22	Layered oxides-LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ as anode electrode for symmetric rechargeable lithium-ion batteries. Journal of Power Sources, 2018, 378, 516-521.	4.0	24
23	A photochemical diode artificial photosynthesis system for unassisted high efficiency overall pure water splitting. Nature Communications, 2018, 9, 1707.	5.8	123
24	The Role of Metal Disulfide Interlayer in Li- ^S Batteries. Journal of Physical Chemistry C, 2018, 122, 1014-1023.	1.5	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.	4.0	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.	0.2	0
27	Application of Operando X-ray Diffractometry in Various Aspects of the Investigations of Lithium/Sodium-Ion Batteries. Energies, 2018, 11, 2963.	1.6	19
28	EELS Analysis of Bulk Plasmon Harmonics of Aluminium at 30 keV. Microscopy and Microanalysis, 2018, 24, 464-465.	0.2	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.	1.3	34
30	Making of an Industry-Friendly Artificial Photosynthesis Device. ACS Energy Letters, 2018, 3, 2230-2231.	8.8	48
31	In Situ TEM Investigation of Electron Irradiation Induced Metastable States in Lithium-Ion Battery Cathodes: Li ₂ FeSiO ₄ versus LiFePO ₄ . ACS Applied Energy Materials, 2018, 1, 3180-3189.	2.5	20
32	New Avenue for Limiting Degradation in NanoLi ₄ Ti ₅ O ₁₂ for Ultrafast-Charge Lithium-Ion Batteries: Hybrid Polymer-Inorganic Particles. Nano Letters, 2017, 17, 7372-7379.	4.5	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.	0.2	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.	1.5	5
35	Atomic-Scale Origin of Long-Term Stability and High Performance of GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. Advanced Materials, 2016, 28, 8388-8397.	11.1	106
36	Low-Temperature Synthesis and Electrochemical Properties of Mesoporous Titanium Oxysulfides. ChemElectroChem, 2016, 3, 256-265.	1.7	3

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37	High-Pressure Raman and Calorimetry Studies of Vanadium(III) Alkyl Hydrides for Kubas-type Hydrogen Storage. <i>ChemPhysChem</i> , 2016, 17, 822-828.	1.0	6
38	Group III-nitride nanowire structures for photocatalytic hydrogen evolution under visible light irradiation. <i>APL Materials</i> , 2015, 3, .	2.2	42
39	UV-initiated Synthesis of Electroactive High Surface Area Ta and Ti Mesoporous Oxides Composites with Polypyrrole Nanowires within the Pores. <i>ChemNanoMat</i> , 2015, 1, 276-284.	1.5	1
40	Synthesis and Solid-State NMR Studies of Proton-Conducting Mesoporous Niobium Oxide Polymer Composites with Nafion-like Thermal Durability. <i>ChemNanoMat</i> , 2015, 1, 430-437.	1.5	1
41	Secondary Electron Yield at High Voltages up to 300 keV. <i>Microscopy and Microanalysis</i> , 2015, 21, 1705-1706.	0.2	2
42	Synthesis of phase-pure Li ₂ MnSiO ₄ @C porous nanoboxes for high-capacity Li-ion battery cathodes. <i>Nano Energy</i> , 2015, 12, 305-313.	8.2	31
43	Dye-sensitized InGaN nanowire arrays for efficient hydrogen production under visible light irradiation. <i>Nanotechnology</i> , 2015, 26, 285401.	1.3	14
44	Defect-engineered GaN:Mg nanowire arrays for overall water splitting under violet light. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	27
45	Thermodynamically neutral Kubas-type hydrogen storage using amorphous Cr(alkyl hydride gels). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9480-9487.	1.3	24
46	Proton Conductivity of Naphthalene Sulfonate Formaldehyde Resin-doped Mesoporous Niobium and Tantalum Oxide Composites. <i>ChemSusChem</i> , 2015, 8, 301-309.	3.6	6
47	Nanoporous twinned PtPd with highly catalytic activity and stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2050-2056.	5.2	43
48	Synthesis and electrochemical properties of mesoporous titanium oxide with polythiophene nanowires in the pores. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 52-59.	2.2	5
49	On the path to bulk FeH ₂ : Synthesis and magnetic properties of amorphous iron (II) hydride. <i>Journal of Alloys and Compounds</i> , 2014, 590, 199-204.	2.8	9
50	Polymer composites with a large nanofiller content: a case study involving epoxy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 434-443.	1.8	29
51	Hollow Melon-seed-shaped Lithium Iron Phosphate Micro- and Sub-micrometer Plates for Lithium-ion Batteries. <i>ChemSusChem</i> , 2014, 7, 1618-1622.	3.6	16
52	Microscopy and microanalysis of complex nanosized strengthening precipitates in new generation commercial Al-Cu-Li alloys. <i>Journal of Microscopy</i> , 2014, 255, 128-137.	0.8	28
53	Variable temperature proton conductivity of mesoporous titanium oxides doped with naphthalene sulfonate formaldehyde resin. <i>Microporous and Mesoporous Materials</i> , 2014, 190, 284-291.	2.2	9
54	High-resolution imaging and X-ray microanalysis in the FE-SEM. <i>Surface and Interface Analysis</i> , 2014, 46, 1286-1290.	0.8	1

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55	Effect of Synthesis Parameters on the Electrochemical Properties of High-Surface-Area Mesoporous Titanium Oxide with Polypyrrole Nanowires in the Pores. <i>ChemElectroChem</i> , 2014, 1, 2153-2162.	1.7	3
56	In-Situ Synthesis of New Electrode Materials for Li-Ions Batteries using a cold FEG Environmental HRTEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 1522-1523.	0.2	0
57	One-Step Overall Water Splitting under Visible Light Using Multiband InGaN/GaN Nanowire Heterostructures. <i>ACS Nano</i> , 2013, 7, 7886-7893.	7.3	190
58	Titanium hydrazide gels for Kubas-type hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1947.	5.2	20
59	Variations in nanomechanical properties of back-end Zr-2.5Nb pressure tube material. <i>Journal of Nuclear Materials</i> , 2013, 442, 116-123.	1.3	7
60	Review and analysis of nanostructured olivine-based lithium rechargeable batteries: Status and trends. <i>Journal of Power Sources</i> , 2013, 232, 357-369.	4.0	173
61	Current density dependence of peroxide formation in the Li-O ₂ battery and its effect on charge. <i>Energy and Environmental Science</i> , 2013, 6, 1772.	15.6	586
62	Observation of TiH ₅ and TiH ₇ in Bulk-Phase TiH ₃ Gels for Kubas-Type Hydrogen Storage. <i>Chemistry of Materials</i> , 2013, 25, 4765-4771.	3.2	15
63	Acquisition parameters optimization of a transmission electron forward scatter diffraction system in a cold-field emission scanning electron microscope for nanomaterials characterization. <i>Scanning</i> , 2013, 35, 375-386.	0.7	27
64	HR-STEM In-Situ Mechanical Testing of FIB Samples. <i>Microscopy and Microanalysis</i> , 2012, 18, 772-773.	0.2	0
65	High Resolution Imaging and X-Ray Microanalysis with STEM in the FE-SEM. <i>Microscopy and Microanalysis</i> , 2012, 18, 390-391.	0.2	41
66	EDS Spectrum Imaging with Fast Fourier Transforms. <i>Microscopy and Microanalysis</i> , 2012, 18, 1008-1009.	0.2	0
67	Determination of EDS Detection Limits of Nanoparticle Using Monte Carlo Simulations. <i>Microscopy and Microanalysis</i> , 2012, 18, 1016-1017.	0.2	3
68	Synthesis of New Electrode Materials for Li-Ions Batteries using an Environmental HRTEM. <i>Microscopy and Microanalysis</i> , 2012, 18, 1476-1477.	0.2	0
69	Evaluation of strain rate sensitivity by constant load nanoindentation. <i>Journal of Materials Science</i> , 2012, 47, 7189-7200.	1.7	51
70	Multivalent Manganese Hydrazide Gels for Kubas-Type Hydrogen Storage. <i>Chemistry of Materials</i> , 2012, 24, 1629-1638.	3.2	24
71	Contribution of a New Generation Field-Emission Scanning Electron Microscope in the Understanding of a 2099 Al-Li Alloy. <i>Microscopy and Microanalysis</i> , 2012, 18, 1393-1409.	0.2	20
72	Microstructural and electrochemical investigation of functional nanostructured TiO ₂ anode for Li-ions batteries. <i>Journal of Power Sources</i> , 2012, 202, 357-363.	4.0	13

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73	New advanced cathode material: LiMnPO ₄ encapsulated with LiFePO ₄ . Journal of Power Sources, 2012, 204, 177-181.	4.0	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.	6.6	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.	6.6	36
77	In situ high-resolution transmission electron microscopy synthesis observation of nanostructured carbon coated LiFePO ₄ . Journal of Power Sources, 2011, 196, 7383-7394.	4.0	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.	2.6	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.	1.5	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.	6.6	44
81	Multifunctional Fe ₃ O ₄ @Au/Porous Silica@Fluorescein Core/Shell Nanoparticles with Enhanced Fluorescence Quantum Yield. Journal of Physical Chemistry C, 2010, 114, 18313-18317.	1.5	33
82	Cyclopentadienyl chromium hydrazide gels for Kubas-type hydrogen storage. Chemical Communications, 2010, 46, 3206.	2.2	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.	3.1	16
84	Towards a more comprehensive microstructural analysis of Zr-2.5Nb pressure tubing using image analysis and electron backscattered diffraction (EBSD). Journal of Nuclear Materials, 2009, 393, 162-174.	1.3	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.	0.8	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.	1.5	12
87	What is the Best Beam Energy for X-Ray Microanalysis of Nanomaterials in Electron Microscopy?. Microscopy and Microanalysis, 2009, 15, 460-461.	0.2	0
88	Fe Distribution in Zr-2.5Nb Pressure Tubes Having Variable Deformation Properties. Microscopy and Microanalysis, 2009, 15, 482-483.	0.2	0
89	Sulfated Mesoporous Tantalum Oxides in the Shape Selective Synthesis of Linear Alkyl Benzene. Angewandte Chemie - International Edition, 2008, 47, 4896-4899.	7.2	26
90	H ₂ Storage Materials (22KJ/mol) Using Organometallic Ti Fragments as η^2 -H ₂ Binding Sites. Journal of the American Chemical Society, 2008, 130, 6992-6999.	6.6	86

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91	Hydrogen Storage in Mesoporous Titanium Oxide ²⁺ Alkali Fulleride Composites. <i>Inorganic Chemistry</i> , 2008, 47, 2477-2484.	1.9	13
92	Nanostructured polymer microcomposites: A distinct class of insulating materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2008, 15, 90-105.	1.8	49
93	¹⁷ O and ¹⁵ N Solid State NMR Studies on Ligand-Assisted Templating and Oxygen Coordination in the Walls of Mesoporous Nb, Ta and Ti Oxides. <i>Journal of the American Chemical Society</i> , 2008, 130, 15726-15731.	6.6	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. <i>Chemistry of Materials</i> , 2007, 19, 1388-1395.	3.2	35
96	Compositional Effects in Ru, Pd, Pt, and Rh-Doped Mesoporous Tantalum Oxide Catalysts for Ammonia Synthesis. <i>Inorganic Chemistry</i> , 2007, 46, 5084-5092.	1.9	26
97	A Solid-State ¹⁷ O NMR Study of Local Order and Crystallinity in Amine-Templated Mesoporous Nb Oxide. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2635-2638.	7.2	11
98	A Solid-State ¹⁷ O NMR Study of Local Order and Crystallinity in Amine-Templated Mesoporous Nb Oxide. <i>Angewandte Chemie</i> , 2007, 119, 2689-2692.	1.6	4
99	Sulfated and Phosphated Mesoporous Nb Oxide in the Benzoylation of Anisole and Toluene by Benzyl Alcohol. <i>Journal of the American Chemical Society</i> , 2006, 128, 13996-13997.	6.6	67
100	Electroactive mesoporous tantalum oxide catalysts for nitrogen activation and ammonia synthesis. <i>Chemical Communications</i> , 2006, , 1918.	2.2	31
101	Hydrogen Storage in Chemically Reducible Mesoporous and Microporous Ti Oxides. <i>Journal of the American Chemical Society</i> , 2006, 128, 11740-11741.	6.6	108
102	Solid-State ²³ Na and ⁷ Li NMR Investigations of Sodium- and Lithium-Reduced Mesoporous Titanium Oxides. <i>Inorganic Chemistry</i> , 2006, 45, 1828-1838.	1.9	16
103	Mesoporous tantalum oxide photocatalysts for Schrauzer-type conversion of dinitrogen to ammonia. <i>Canadian Journal of Chemistry</i> , 2005, 83, 308-314.	0.6	12
104	Electronic Properties and Solid-State ⁸⁷ Rb and ¹³ C NMR Studies of Mesoporous Tantalum Oxide Rubidium Fulleride Composites. <i>Chemistry of Materials</i> , 2005, 17, 1467-1478.	3.2	11
105	Nanostructured Gold Thin Films Prepared by Pulsed Laser Deposition. <i>Journal of Materials Research</i> , 2004, 19, 950-958.	1.2	33
106	Synthesis and Electrochemistry of Li- and Na-Fulleride Doped Mesoporous Ta Oxides. <i>Chemistry of Materials</i> , 2004, 16, 2886-2894.	3.2	15
107	Mesostructured Fe Oxide Synthesized by Ligand-Assisted Templating with a Chelating Triol Surfactant. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5211-5216.	1.2	24
108	Introductory remarks on nanodielectrics. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2004, 11, 808-818.	1.8	158

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109	Structural and Spectroscopic Studies on Mesoporous Tantalum Oxideâ€“Sodium Fulleride Composites with Conducting Fulleride Columns in the Pores. <i>Advanced Functional Materials</i> , 2003, 13, 671-681.	7.8	9
110	Compositional and ² H NMR Studies of Bis(benzene)chromium Composites of Mesoporous Vanadiumâ”Niobium Mixed Oxides. <i>Inorganic Chemistry</i> , 2003, 42, 335-347.	1.9	11
111	Mesoporous Ta oxide reduced with bis(toluene)Ti: electronic properties and mechanistic considerations of nitrogen cleavage on the low valent surface. <i>Dalton Transactions</i> , 2003, , 4115-4120.	1.6	16
112	Synthesis and magnetic properties of decamethylsamarocene composites of mesoporous niobium oxide. <i>Journal of Materials Chemistry</i> , 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. <i>Studies in Surface Science and Catalysis</i> , 2002, 141, 661-668.	1.5	2
114	Room-Temperature Ammonia Formation from Dinitrogen on a Reduced Mesoporous Titanium Oxide Surface with Metallic Properties. <i>Journal of the American Chemical Society</i> , 2002, 124, 9567-9573.	6.6	51
115	Compositional Studies on the Electronic and Magnetic Properties of Potassium Fulleride Mesoporous Niobium Oxide Composites. <i>Chemistry of Materials</i> , 2002, 14, 2774-2781.	3.2	13
116	Comparison of Partly Revealed Anisotropic Microstructures Using Grid Intersepts as Applied to Zirconium Tubes. <i>Microscopy and Microanalysis</i> , 2002, 8, 1304-1305.	0.2	0
117	Synthesis of a Stable Metallic Niobium Oxide Molecular Sieve and Subsequent Room Temperature Activation of Dinitrogen. <i>Advanced Functional Materials</i> , 2002, 12, 174.	7.8	22
118	Microstructure and physical properties of nanostructured tin oxide thin films grown by means of pulsed laser deposition. <i>Thin Solid Films</i> , 2002, 419, 230-236.	0.8	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. <i>Inorganic Chemistry</i> , 2001, 40, 2088-2095.	1.9	36
120	Bis(cyclopentadienyl)chromium and Bis(cyclopentadienylvanadium) Composites of Mesoporous Niobium Oxide with Pseudo-One-Dimensional Organometallic Wires in the Pores. <i>Chemistry of Materials</i> , 2001, 13, 4808-4816.	3.2	12
121	Superparamagnetic and spin glass behavior in mesoporous niobium oxide bis(cyclopentadienyl)nickel composites. <i>Journal of Materials Chemistry</i> , 2001, 11, 1755-1759.	6.7	18
122	Synthesis and Electronic Properties of Low-Dimensional Bis(benzene) Vanadium Reduced Mesoporous Niobium Oxide Composites. <i>Inorganic Chemistry</i> , 2001, 40, 6463-6468.	1.9	15
123	Unusual Conductivity Patterns in Reduced Mesoporous Titanium, Niobium, and Tantalum Oxides with One-Dimensional Potassium Fulleride Wires in the Channels. <i>Chemistry of Materials</i> , 2001, 13, 2730-2741.	3.2	12
124	Pulsed laser deposition of nanostructured tin oxide films for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 383-388.	4.0	79
125	Synthesis and Electronic Properties of Potassium Fulleride Nanowires in a Mesoporous Niobium Oxide Host. <i>Advanced Materials</i> , 2001, 13, 29-33.	11.1	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. <i>Advanced Materials</i> , 2001, 13, 561-565.	11.1	41

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127	Growth of carbon nanotubes on Ohmically heated carbon paper. <i>Chemical Physics Letters</i> , 2001, 342, 503-509.	1.2	50
128	Synthesis and Electronic Properties of Reduced Mesoporous Sodium Niobium Oxides. <i>Advanced Materials</i> , 2000, 12, 337-341.	11.1	39
129	Electronic Properties of Novel Mixed Oxidation-State Bis-Arene Chromium Nanowires Supported by a Mesoporous Niobium Oxide Host. <i>Advanced Materials</i> , 2000, 12, 1036-1040.	11.1	32
130	Synthesis and Magnetic Tuning in Superparamagnetic Cobaltocene-Mesoporous Niobium Oxide Composites. <i>Advanced Materials</i> , 2000, 12, 1339-1342.	11.1	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. <i>Inorganic Chemistry</i> , 2000, 39, 5901-5908.	1.9	20
132	Advanced Materials for Energy Storage. <i>MRS Bulletin</i> , 1999, 24, 23-26.	1.7	56
133	Phase Changes and Electronic Properties in Toroidal Mesoporous Molybdenum Oxides. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1471-1475.	7.2	46
134	Nanocrystalline Fe and Fe-riched Fe-Ni through electrodeposition. <i>Scripta Materialia</i> , 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. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8858-8863.	1.2	54
136	Surface reactivity of nanocrystalline Fe ₈₇ Zr ₇ Cu ₁ B ₅ alloys. <i>Scripta Materialia</i> , 1997, 9, 217-220.	0.5	0
137	Nanostructured material induced by a 400 W yag laser. <i>Scripta Materialia</i> , 1997, 9, 221-224.	0.5	1
138	The Nature of Cobalt Species in Co ²⁺ /ZSM-5 NO Emission Control Catalysts. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13662-13666.	2.9	41
139	Nanocrystalline materials in catalysis and electrocatalysis: Structure tailoring and surface reactivity. <i>Scripta Materialia</i> , 1996, 7, 245-258.	0.5	73
140	XPS investigation of surface oxidation and reduction in nanocrystalline CexLa1-xO2-y. <i>Surface and Interface Analysis</i> , 1995, 23, 219-226.	0.8	83
141	Engineering nanocrystalline materials from amorphous precursors. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 204, 233-239.	2.6	7
142	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.	1.3	49
143	Nanocrystalline Ni-Mo alloys and their application in electrocatalysis. <i>Journal of Materials Research</i> , 1994, 9, 2998-3008.	1.2	55
144	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.	1.2	54

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