

M Parans Paranthaman

List of Publications by Year in descending order

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369
papers

16,052
citations

15504

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docs citations

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times ranked

12355
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic heat capacity measurements and thermodynamic analysis of lithium aluminum layered double hydroxides (LDHs) with intercalated chloride. <i>American Mineralogist</i> , 2022, 107, 709-715.	1.9	6
2	Manufacturing Processes for Permanent Magnets: Part I—Sintering and Casting. <i>Jom</i> , 2022, 74, 1279-1295.	1.9	40
3	Facile Surface Coatings for Performance Improvement of NMC811 Battery Cathode Material. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020565.	2.9	15
4	Manufacturing Processes for Permanent Magnets: Part II—Bonding and Emerging Methods. <i>Jom</i> , 2022, 74, 2492-2506.	1.9	12
5	Review of additive manufacturing of permanent magnets for electrical machines: A prospective on wind turbine. <i>Materials Today Physics</i> , 2022, 24, 100675.	6.0	25
6	Effective antiviral coatings for deactivating SARS-CoV-2 virus on N95 respirator masks or filters. <i>Materials Today Advances</i> , 2022, 14, 100228.	5.2	3
7	Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes. <i>Advanced Functional Materials</i> , 2021, 31, 2008708.	14.9	30
8	MADE3D: Enabling the next generation of high-torque density wind generators by additive design and 3D printing. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2021, 85, 287-311.	1.6	2
9	Alignment of magnetic particles in anisotropic Nd—Fe—B bonded magnets. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 315004.	2.8	4
10	Life Cycle Assessment and Techno-Economic Assessment of Lithium Recovery from Geothermal Brine. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6551-6560.	6.7	19
11	Dynamics of Emim ⁺ in [Emim][TFSI]/LiTFSI Solutions as Bulk and under Confinement in a Quasi-liquid Solid Electrolyte. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5443-5450.	2.6	8
12	(Invited) Carbon Nanostructures for Energy Storage Applications. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 485-485.	0.0	0
13	U.S. lithium resources from geothermal and extraction feasibility. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105514.	10.8	27
14	Recent developments in filtration media and respirator technology in response to COVID-19. <i>MRS Bulletin</i> , 2021, 46, 822-831.	3.5	7
15	Compression molding of anisotropic NdFeB bonded magnets in a polycarbonate matrix. <i>Materialia</i> , 2021, 19, 101167.	2.7	8
16	In-situ magnetic alignment model for additive manufacturing of anisotropic bonded magnets. <i>Additive Manufacturing</i> , 2021, 46, 102096.	3.0	10
17	Polymer, Additives, and Processing Effects on N95 Filter Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1022-1031.	4.4	21
18	3D printing of anisotropic Sm—Fe—N nylon bonded permanent magnets. <i>Engineering Reports</i> , 2021, 3, e12478.	1.7	6

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19	Front Cover Image, Volume 3, Number 12, December 2021. Engineering Reports, 2021, 3, .	1.7	0
20	Unraveling the structural properties and dynamics of sulfonated solid acid carbon catalysts with neutron vibrational spectroscopy. Catalysis Today, 2020, 358, 387-393.	4.4	6
21	Fabrication and Characterization of Composite Membranes for the Concentration of Lithium Containing Solutions Using Forward Osmosis. Advanced Sustainable Systems, 2020, 4, 2000165.	5.3	5
22	Additive manufacturing of soft magnets for electrical machines—a review. Materials Today Physics, 2020, 15, 100255.	6.0	81
23	Additive Manufacturing of Isotropic NdFeB PPS Bonded Permanent Magnets. Materials, 2020, 13, 3319.	2.9	23
24	Encapsulated Sb and Sb ₂ O ₃ particles in waste-tire derived carbon as stable composite anodes for sodium-ion batteries. Sustainable Energy and Fuels, 2020, 4, 3613-3622.	4.9	13
25	Additive manufacturing of highly dense anisotropic Nd-Fe-B bonded magnets. Scripta Materialia, 2020, 183, 91-95.	5.2	30
26	Functionalizing magnet additive manufacturing with in-situ magnetic field source. Additive Manufacturing, 2020, 34, 101289.	3.0	8
27	Magnetic Sorbent for the Removal of Selenium(IV) from Simulated Industrial Wastewaters: Determination of Column Kinetic Parameters. Water (Switzerland), 2020, 12, 1234.	2.7	5
28	Insights into the Enhanced Cycle and Rate Performances of the F-Substituted P2-Type Oxide Cathodes for Sodium-Ion Batteries. Advanced Energy Materials, 2020, 10, 2000135.	19.5	57
29	Thermal and radiation response of 4H-SiC Schottky diodes with direct-write electrical contacts. Applied Physics Letters, 2020, 116, .	3.3	9
30	Neutron Spectroscopic and Thermochemical Characterization of Lithium-Aluminum-Layered Double Hydroxide Chloride: Implications for Lithium Recovery. Journal of Physical Chemistry C, 2019, 123, 20723-20729.	3.1	20
31	Probing microstructure and electrolyte concentration dependent cell chemistry <i>via operando</i> small angle neutron scattering. Energy and Environmental Science, 2019, 12, 1866-1877.	30.8	36
32	Magnetic adsorbents for selective removal of selenite from contaminated water. Separation Science and Technology, 2019, 54, 2138-2146.	2.5	10
33	Recycling of additively printed rare-earth bonded magnets. Waste Management, 2019, 90, 94-99.	7.4	16
34	Carbon polyaniline capacitive deionization electrodes with stable cycle life. Desalination, 2019, 464, 25-32.	8.2	32
35	Fluorination of MXene by Elemental F ₂ as Electrode Material for Lithium-Ion Batteries. ChemSusChem, 2019, 12, 1271-1271.	6.8	0
36	Fluorination of MXene by Elemental F ₂ as Electrode Material for Lithium-Ion Batteries. ChemSusChem, 2019, 12, 1316-1324.	6.8	28

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37	Binder jet additive manufacturing method to fabricate near net shape crack-free highly dense Fe-6.5 wt.% Si soft magnets. <i>Heliyon</i> , 2019, 5, e02804.	3.2	36
38	Low-Field Alignment of Anisotropic Bonded Magnets for Additive Manufacturing of Permanent Magnet Motors. <i>Jom</i> , 2019, 71, 626-632.	1.9	12
39	Lithium aluminum layered double hydroxide chlorides (<sc>LDH</sc>): Formation enthalpies and energetics for lithium ion capture. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2398-2404.	3.8	34
40	Bis(trimethylsilyl) 2-fluoromalonate derivatives as electrolyte additives for high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 412, 527-535.	7.8	47
41	Fabrication of highly dense isotropic Nd-Fe-B nylon bonded magnets via extrusion-based additive manufacturing. <i>Additive Manufacturing</i> , 2018, 21, 495-500.	3.0	48
42	Rationalization of solidification mechanism of Nd-Fe-B magnets during laser directed-energy deposition. <i>Journal of Materials Science</i> , 2018, 53, 8619-8626.	3.7	19
43	Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, H881-H888.	2.9	16
44	Sustainable Waste Tire Derived Carbon Material as a Potential Anode for Lithium-Ion Batteries. <i>Sustainability</i> , 2018, 10, 2840.	3.2	26
45	Carbon/tin oxide composite electrodes for improved lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 811-817.	2.9	13
46	Lithium Recovery from Aqueous Resources and Batteries: A Brief Review. <i>Johnson Matthey Technology Review</i> , 2018, 62, 161-176.	1.0	107
47	Additive manufacturing of anisotropic hybrid NdFeB-SmFeN nylon composite bonded magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 467, 8-13.	2.3	68
48	Tire-derived carbon for catalytic preparation of biofuels from feedstocks containing free fatty acids. <i>Carbon Resources Conversion</i> , 2018, 1, 165-173.	5.9	38
49	Sustainable Potassium-Ion Battery Anodes Derived from Waste-Tire Rubber. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1234-A1238.	2.9	88
50	Structure and Dynamics Investigations of Sr/Ca-Doped LaPO ₄ Proton Conductors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11991-12002.	3.1	13
51	A novel method combining additive manufacturing and alloy infiltration for NdFeB bonded magnet fabrication. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 438, 163-167.	2.3	65
52	Additive manufacturing of near-net-shape bonded magnets: Prospects and challenges. <i>Scripta Materialia</i> , 2017, 135, 100-104.	5.2	102
53	Recovery of Lithium from Geothermal Brine with Lithium-Aluminum Layered Double Hydroxide Chloride Sorbents. <i>Environmental Science & Technology</i> , 2017, 51, 13481-13486.	10.0	132
54	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO ₂ nanotubes as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20651-20657.	10.3	45

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55	The influence of the local structure on proton transport in a solid oxide proton conductor $\text{La}_{0.8}\text{Ba}_{1.2}\text{GaO}_{3.9}$. Journal of Materials Chemistry A, 2017, 5, 15507-15511.	10.3	9
56	Lithium malonatoborate additives enabled stable cycling of 5 V lithium metal and lithium ion batteries. Nano Energy, 2017, 40, 9-19.	16.0	72
57	Neutron vibrational spectroscopic studies of novel tire-derived carbon materials. Physical Chemistry Chemical Physics, 2017, 19, 22256-22262.	2.8	8
58	Novel Acid Catalysts from Waste-Tire-Derived Carbon: Application in Waste-to-Biofuel Conversion. ChemistrySelect, 2017, 2, 4975-4982.	1.5	17
59	Observing Framework Expansion of Ordered Mesoporous Hard Carbon Anodes with Ionic Liquid Electrolytes via in Situ Small-Angle Neutron Scattering. ACS Energy Letters, 2017, 2, 1698-1704.	17.4	16
60	Membrane-Based Gas Separation Accelerated by Hollow Nanosphere Architectures. Advanced Materials, 2017, 29, 1603797.	21.0	48
61	A Novel Electrolyte Salt Additive for Lithium-Ion Batteries with Voltages Greater than 4.7 V. Advanced Energy Materials, 2017, 7, 1601397.	19.5	103
62	Studies on in situ magnetic alignment of bonded anisotropic Nd-Fe-B alloy powders. Journal of Magnetism and Magnetic Materials, 2017, 422, 168-173.	2.3	29
63	Monodispersed $\text{Li}_4\text{Ti}_5\text{O}_{12}$ with Controlled Morphology as High Power Lithium Ion Battery Anodes. ChemNanoMat, 2016, 2, 642-646.	2.8	12
64	Tire-derived carbon composite anodes for sodium-ion batteries. Journal of Power Sources, 2016, 316, 232-238.	7.8	85
65	Binder Jetting: A Novel NdFeB Bonded Magnet Fabrication Process. Jom, 2016, 68, 1978-1982.	1.9	121
66	<i>In Situ</i> X-ray and Neutron Diffraction of the Rare-Earth Phosphate Proton Conductors Sr/Ca-Doped LaPO_4 at Elevated Temperatures. Chemistry of Materials, 2016, 28, 7232-7240.	6.7	5
67	Big Area Additive Manufacturing of High Performance Bonded NdFeB Magnets. Scientific Reports, 2016, 6, 36212.	3.3	138
68	Nanoparticle Shape Evolution and Proximity Effects During Tip-Induced Electrochemical Processes. ACS Nano, 2016, 10, 663-671.	14.6	11
69	Conduction below 100°C in nominal $\text{Li}_6\text{ZnNb}_4\text{O}_{14}$. Journal of Materials Science, 2016, 51, 854-860.	3.7	5
70	A high performance hybrid battery based on aluminum anode and LiFePO_4 cathode. Chemical Communications, 2016, 52, 1713-1716.	4.1	48
71	Synthesis and characterization of substituted garnet and perovskite-based lithium-ion conducting solid electrolytes. Ionics, 2016, 22, 317-325.	2.4	19
72	ZnO Doping and Defect Engineering—A Review. Springer Series in Materials Science, 2016, , 105-140.	0.6	16

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73	Waste Tire Derived Carbonâ€“Polymer Composite Paper as Pseudocapacitive Electrode with Long Cycle Life. <i>ChemSusChem</i> , 2015, 8, 3576-3581.	6.8	94
74	Optimization of a non-arsenic iron-based superconductor for wire fabrication. <i>Superconductor Science and Technology</i> , 2015, 28, 045018.	3.5	3
75	Humidity Effect on Nanoscale Electrochemistry in Solid Silver Ion Conductors and the Dual Nature of Its Locality. <i>Nano Letters</i> , 2015, 15, 1062-1069.	9.1	27
76	Monolithic graded-refractive-index glass-based antireflective coatings: broadband/omnidirectional light harvesting and self-cleaning characteristics. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5440-5449.	5.5	55
77	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. <i>Nano Letters</i> , 2015, 15, 3398-3402.	9.1	115
78	The â€œfiller effectâ€“ A study of solid oxide fillers with Li_3PS_4 for lithium conducting electrolytes. <i>Solid State Ionics</i> , 2015, 283, 75-80.	2.7	41
79	A POMâ€“organic framework anode for Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22989-22995.	10.3	58
80	Synthesis, characterization and electrochemical performance of Al-substituted Li_2MnO_3 . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 201, 13-22.	3.5	19
81	Second harmonic detection in the electrochemical strain microscopy of Ag-ion conducting glass. <i>Applied Physics Letters</i> , 2014, 105, 193106.	3.3	10
82	Quasi-Elastic Neutron Scattering Reveals Fast Proton Diffusion in Ca-Doped LaPO_4 . <i>Journal of Physical Chemistry C</i> , 2014, 118, 20112-20121.	3.1	10
83	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithiumâ€“Ion Battery Applications. <i>Advanced Energy Materials</i> , 2014, 4, 1301368.	19.5	43
84	Chemical solution derived planarization layers for highly aligned IBAD-MgO templates. <i>Superconductor Science and Technology</i> , 2014, 27, 022002.	3.5	30
85	High performance Cr, N-codoped mesoporous TiO_2 microspheres for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1818-1824.	10.3	58
86	An integrated approach for structural characterization of complex solid state electrolytes: the case of lithium lanthanum titanate. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2418.	10.3	22
87	Studies on Supercapacitor Electrode Material from Activated Lignin-Derived Mesoporous Carbon. <i>Langmuir</i> , 2014, 30, 900-910.	3.5	342
88	Neutron Diffraction and Electrochemical Studies of $\text{Na}_{0.79}\text{CoO}_2$ and $\text{Na}_{0.79}\text{Co}_{0.7}\text{Mn}_{0.3}\text{O}_2$ Cathodes for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014, 161, A961-A967.	2.9	19
89	Tailored recovery of carbons from waste tires for enhanced performance as anodes in lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 38213.	3.6	70
90	Chemical and Electrochemical Lithiation of LiVOPO_4 Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 3849-3861.	6.7	63

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91	Evolution of structural and magnetic properties due to nanocrystallization of mechanically milled amorphous Pr-Co-B powders. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	7
92	Atomic-Scale Picture of the Ion Conduction Mechanism in a Tetrahedral Network of Lanthanum Barium Gallate. <i>Chemistry of Materials</i> , 2013, 25, 2741-2748.	6.7	17
93	Defect chemistry of phospho-olivine nanoparticles synthesized by a microwave-assisted solvothermal process. <i>Journal of Solid State Chemistry</i> , 2013, 205, 197-204.	2.9	8
94	Orienting Oxygen Vacancies for Fast Catalytic Reaction. <i>Advanced Materials</i> , 2013, 25, 6459-6463.	21.0	96
95	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO_4 Cathodes. <i>Chemistry of Materials</i> , 2013, 25, 768-781.	6.7	83
96	Self-organized amorphous TiO_2 nanotube arrays on porous Ti foam for rechargeable lithium and sodium ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 461-466.	7.8	235
97	Proton dynamics in $\text{La}_{0.8}\text{Ba}_{1.2}\text{GaO}_{3.9}\cdot n\text{H}_2\text{O}$ studied by quasielastic incoherent neutron scattering. <i>Solid State Ionics</i> , 2013, 252, 12-18.	2.7	8
98	Overcoming phase instability of $\text{RBaCo}_2\text{O}_5+\hat{\Gamma}$ (R=Y and Ho) by Sr substitution for application as cathodes in solid oxide fuel cells. <i>Solid State Ionics</i> , 2013, 253, 81-87.	2.7	24
99	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2013, 3, 708-712.	19.5	51
100	Mesoporous TiO_2 spheres with a nitrated conducting layer for lithium-ion batteries. <i>Journal of Materials Science</i> , 2013, 48, 5125-5131.	3.7	18
101	Enhanced visible-light absorption of mesoporous TiO_2 by co-doping with transition-metal/nitrogen ions. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1547, 115-119.	0.1	1
102	Novel tri-modal defect structure in Nb-doped MOCVD $\text{YBa}_2\text{Cu}_3\text{O}_7$: a paradigm for pinning landscape control. <i>Superconductor Science and Technology</i> , 2012, 25, 095013.	3.5	2
103	Superconducting properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films deposited on commercial tape substrates, decorated with Pd or Ta nano-islands. <i>Superconductor Science and Technology</i> , 2012, 25, 025018.	3.5	15
104	$\text{Li}_6\text{La}_3\text{SnMO}_{12}$ (M = Sb, Nb, Ta), a Family of Lithium Garnets with High Li-Ion Conductivity. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1148-A1151.	2.9	19
105	Heteroepitaxial film silicon solar cell grown on Ni-W foils. <i>Energy and Environmental Science</i> , 2012, 5, 6052.	30.8	40
106	Conductive surface modification of LiFePO_4 with nitrogen-doped carbon layers for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 4611.	6.7	76
107	In Situ Observation of Solid Electrolyte Interphase Formation in Ordered Mesoporous Hard Carbon by Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7701-7711.	3.1	92
108	Role of Cation Ordering and Surface Segregation in High-Voltage Spinel $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{M}_2\text{O}_4$ (M = Cr, Fe, and Ga) Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 3720-3731.	6.7	202

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109	Effect of Ca doping on the electrical conductivity of the high temperature proton conductor LaNbO ₄ . International Journal of Hydrogen Energy, 2012, 37, 12751-12759.	7.1	32
110	Optimum lithium-ion conductivity in cubic Li _{7-x} La ₃ Hf ₂ xTa _x O ₁₂ . Journal of Power Sources, 2012, 209, 184-188.	7.8	70
111	(Y _{0.5} In _{0.5})Ba(Co,Zn) ₄ O ₇ cathodes with superior high-temperature phase stability for solid oxide fuel cells. Journal of Power Sources, 2012, 214, 7-14.	7.8	21
112	Colloidal synthesis of BaF ₂ nanoparticles and their application as fillers in polymer nanocomposites. Applied Physics A: Materials Science and Processing, 2012, 106, 661-667.	2.3	11
113	Development of Solution Buffer Layers for RABiTS Based YBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2011, 21, 3059-3061.	1.7	20
114	Heteroepitaxial film crystal silicon on Al ₂ O ₃ : new route to inexpensive crystal silicon photovoltaics. Energy and Environmental Science, 2011, 4, 3346.	30.8	33
115	Comparing Cr, and N only doping with (Cr, N)-codoping for enhancing visible light reactivity of TiO ₂ . Applied Catalysis B: Environmental, 2011, 110, 148-153.	20.2	37
116	Triangular Graphene Grain Growth on Cu Textured Cu Substrates. Advanced Functional Materials, 2011, 21, 3868-3874.	14.9	31
117	Mesoporous TiO ₂ Microspheres with Superior Rate Performance for Lithium Ion Batteries. Advanced Materials, 2011, 23, 3450-3454.	21.0	361
118	Thermal stability of HfO ₂ nanotube arrays. Applied Surface Science, 2011, 257, 4075-4081.	6.1	25
119	High temperature phase stabilities and electrochemical properties of InBaCo _{4-x} Zn _x O ₇ cathodes for intermediate temperature solid oxide fuel cells. Electrochimica Acta, 2011, 56, 5740-5745.	5.2	13
120	Phase stability and electrical conductivity of Ca-doped LaNb _{1-x} Ta _x O ₄ high temperature proton conductors. Journal of Power Sources, 2011, 196, 7395-7403.	7.8	23
121	Structure and magnetic order in the series BixRE _{1-x} Fe _{0.5} Mn _{0.5} O ₃ (RE=La,Nd). Journal of Solid State Chemistry, 2011, 184, 830-842.	2.9	16
122	Nano-engineered defect structures in Ce- and Ho-doped metal-organic chemical vapor deposited YBa ₂ Cu ₃ O _{6+y} films: Correlation of structure and chemistry with flux pinning performance. Journal of Applied Physics, 2011, 109, 113923.	2.5	12
123	Pinning Enhancements in YBCO Films via Nanoengineered $\{m \text{ LaMnO}_3\} \{n \text{ MgO}\}$ Composite Cap Layer. IEEE Transactions on Applied Superconductivity, 2011, 21, 3171-3174.	1.7	1
124	An evaluation of phase separated, self-assembled LaMnO ₃ -MgO nanocomposite films directly on IBAD-MgO as buffer layers for flux pinning enhancements in YBa ₂ Cu ₃ O _{7-y} coated conductors. Journal of Materials Research, 2010, 25, 437-443.	2.6	7
125	Interactions of Ba ₂ YCu ₃ O _{6+y} with the Gd ₃ NbO ₇ buffer layer in coated conductors. Journal of Solid State Chemistry, 2010, 183, 649-657.	2.9	2
126	Modified Lanthanum Zirconium Oxide buffer layers for low-cost, high performance YBCO coated conductors. Physica C: Superconductivity and Its Applications, 2010, 470, 352-356.	1.2	24

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127	Enhanced flux pinning in MOCVD-YBCO films through Zr additions: systematic feasibility studies. Superconductor Science and Technology, 2010, 23, 014005.	3.5	49
128	Raman and x-ray absorption spectroscopy characterization of Zr-doped MOCVD YBa ₂ Cu ₃ O _{6+δ} . Superconductor Science and Technology, 2010, 23, 014020.	3.5	11
129	Spontaneous Growth of ZnCO ₃ Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. Chemistry of Materials, 2010, 22, 149-154.	6.7	58
130	A surfactant and template-free route for synthesizing ceria nanocrystals with tunable morphologies. Journal of Materials Chemistry, 2010, 20, 7776.	6.7	49
131	Strategic Buffer Layer Development for YBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2009, 19, 3303-3306.	1.7	10
132	Deposition studies and coordinated characterization of MOCVD YBCO films on IBAD-MgO templates. Superconductor Science and Technology, 2009, 22, 015008.	3.5	21
133	Size control of highly ordered HfO ₂ nanotube arrays and a possible growth mechanism. Nanotechnology, 2009, 20, 455601.	2.6	21
134	Solution-derived textured oxide thin films—a review. Superconductor Science and Technology, 2009, 22, 049801-049801.	3.5	0
135	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. Advanced Materials, 2009, 21, 890-896.	21.0	33
136	Synthesis and characterization of anodized titanium-oxide nanotube arrays. Journal of Materials Science, 2009, 44, 2820-2827.	3.7	30
137	Epitaxial growth of MgO/TiN multilayers on Cu. Vacuum, 2009, 83, 897-901.	3.5	9
138	Magnetic field orientation dependence of flux pinning in (Gd,Y)Ba ₂ Cu ₃ O _{7-x} coated conductor with tilted lattice and nanostructures. Physica C: Superconductivity and Its Applications, 2009, 469, 2044-2051.	1.2	21
139	Magnetic order in CaMn ₂ Sb ₂ studied via powder neutron diffraction. Journal of Magnetism and Magnetic Materials, 2009, 321, 3653-3657.	2.3	24
140	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. Applied Catalysis B: Environmental, 2009, 93, 90-95.	20.2	54
141	Properties of YBCO on LaMnO_3 -Capped IBAD MgO-Templates Without Homo-Epitaxial MgO Layer. IEEE Transactions on Applied Superconductivity, 2009, 19, 3315-3318.	1.7	5
142	Three-Dimensional Germanium Oxide Nanowire Networks. Crystal Growth and Design, 2009, 9, 35-39.	3.0	29
143	Vapor-Phase Synthesis of Gallium Phosphide Nanowires. Crystal Growth and Design, 2009, 9, 525-527.	3.0	28
144	Enhanced flux pinning by BaZrO ₃ and (Gd,Y)ZrO ₃ nanostructures in metal organic chemical vapor deposited GdYBCO high temperature superconductor tapes. Applied Physics Letters, 2009, 94, .	3.3	98

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145	Aligned ZnO Nanorod Arrays Grown Directly on Zinc Foils and Zinc Spheres by a Low-Temperature Oxidization Method. ACS Nano, 2009, 3, 273-278.	14.6	108
146	Band Gap Narrowing of Titanium Oxide Semiconductors by Noncompensated Anion-Cation Codoping for Enhanced Visible-Light Photoactivity. Physical Review Letters, 2009, 103, 226401.	7.8	347
147	Germanium-catalyzed hierarchical Al ₂ O ₃ and SiO ₂ nanowire bunch arrays. Nanoscale, 2009, 1, 347.	5.6	23
148	Microstructure and magnetic properties of electrodeposited cobalt films. Journal of Materials Science, 2008, 43, 1644-1649.	3.7	31
149	Analytical modeling of residual stresses in multilayered superconductor systems. Journal of Materials Science, 2008, 43, 6223-6232.	3.7	29
150	Improved textured La ₂ Zr ₂ O ₇ buffer on La ₃ TaO ₇ seed for all-MOD Buffer/YBCO coated conductors. Physica C: Superconductivity and Its Applications, 2008, 468, 1587-1590.	1.2	21
151	Corrections to "Growth of Lanthanum Manganate Buffer Layers for Coated Conductors via a Metal-Organic Decomposition Process". IEEE Transactions on Applied Superconductivity, 2008, 18, 1801-1803.	1.7	1
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