

M Parans Paranthaman

List of Publications by Year in descending order

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papers

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times ranked

12355
citing authors

#	ARTICLE	IF	CITATIONS
1	High critical current density superconducting tapes by epitaxial deposition of YBa ₂ Cu ₃ O _x thick films on biaxially textured metals. Applied Physics Letters, 1996, 69, 1795-1797.	1.5	944
2	Epitaxial YBa ₂ Cu ₃ O ₇ on Biaxially Textured Nickel (001): An Approach to Superconducting Tapes with High Critical Current Density. Science, 1996, 274, 755-757.	6.0	678
3	Irradiation-free, columnar defects comprised of self-assembled nanodots and nanorods resulting in strongly enhanced flux-pinning in YBa ₂ Cu ₃ O _{7-δ} films. Superconductor Science and Technology, 2005, 18, 1533-1538.	1.8	443
4	High-Performance High-T _c Superconducting Wires. Science, 2006, 311, 1911-1914.	6.0	395
5	Mesoporous TiO ₂ Microspheres with Superior Rate Performance for Lithium Ion Batteries. Advanced Materials, 2011, 23, 3450-3454.	11.1	361
6	Band Gap Narrowing of Titanium Oxide Semiconductors by Noncompensated Anion-Cation Codoping for Enhanced Visible-Light Photoactivity. Physical Review Letters, 2009, 103, 226401.	2.9	347
7	Studies on Supercapacitor Electrode Material from Activated Lignin-Derived Mesoporous Carbon. Langmuir, 2014, 30, 900-910.	1.6	342
8	The RABiTS Approach: Using Rolling-Assisted Biaxially Textured Substrates for High-Performance YBCO Superconductors. MRS Bulletin, 2004, 29, 552-561.	1.7	247
9	Self-organized amorphous TiO ₂ nanotube arrays on porous Ti foam for rechargeable lithium and sodium ion batteries. Journal of Power Sources, 2013, 222, 461-466.	4.0	235
10	Role of Cation Ordering and Surface Segregation in High-Voltage Spinel LiMn _{1.5} Ni _{0.5} XM _x O ₄ (M = Cr, Fe, and Ga) Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2012, 24, 3720-3731.	3.2	202
11	Surface protonation and electrochemical activity of oxides in aqueous solution. Journal of the American Chemical Society, 1990, 112, 2076-2082.	6.6	197
12	Growth of biaxially textured buffer layers on rolled-Ni substrates by electron beam evaporation. Physica C: Superconductivity and Its Applications, 1997, 275, 266-272.	0.6	176
13	Low angle grain boundary transport in YBa ₂ Cu ₃ O _{7-δ} coated conductors. Applied Physics Letters, 2000, 76, 1755-1757.	1.5	166
14	Conductors with controlled grain boundaries: An approach to the next generation, high temperature superconducting wire. Journal of Materials Research, 1997, 12, 2924-2940.	1.2	161
15	Solution-derived textured oxide thin films—a review. Superconductor Science and Technology, 2006, 19, R1-R21.	1.8	161
16	Big Area Additive Manufacturing of High Performance Bonded NdFeB Magnets. Scientific Reports, 2016, 6, 36212.	1.6	138
17	Electrical properties of epoxy resin based nano-composites. Nanotechnology, 2007, 18, 025703.	1.3	133
18	Recovery of Lithium from Geothermal Brine with Lithium-Aluminum Layered Double Hydroxide Chloride Sorbents. Environmental Science & Technology, 2017, 51, 13481-13486.	4.6	132

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19	High-Performance YBCO-Coated Superconductor Wires. MRS Bulletin, 2004, 29, 533-541.	1.7	131
20	Reverse micellar synthesis of cerium oxide nanoparticles. Nanotechnology, 2005, 16, 1960-1964.	1.3	131
21	Superconducting MgB ₂ films via precursor postprocessing approach. Applied Physics Letters, 2001, 78, 3669-3671.	1.5	130
22	Epitaxial superconductors on rolling-assisted biaxially-textured substrates (RABiTS): a route towards high critical current density wire. Applied Superconductivity, 1996, 4, 403-427.	0.5	129
23	MOD approach for the growth of epitaxial CeO ₂ buffer layers on biaxially textured Ni-W substrates for YBCO coated conductors. Superconductor Science and Technology, 2003, 16, 1305-1309.	1.8	123
24	Binder Jetting: A Novel NdFeB Bonded Magnet Fabrication Process. Jom, 2016, 68, 1978-1982.	0.9	121
25	Deposition of biaxially-oriented metal and oxide buffer-layer films on textured Ni tapes: new substrates for high-current, high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1997, 275, 155-161.	0.6	117
26	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. Nano Letters, 2015, 15, 3398-3402.	4.5	115
27	Far-Infrared Optical Conductivity Gap in Superconducting MgB ₂ Films. Physical Review Letters, 2001, 88, 027003.	2.9	112
28	Electrical Conductivity of the Manganese Chromite Spinel Solid Solution. Journal of the American Ceramic Society, 2005, 88, 1050-1053.	1.9	110
29	Aligned ZnO Nanorod Arrays Grown Directly on Zinc Foils and Zinc Spheres by a Low-Temperature Oxidization Method. ACS Nano, 2009, 3, 273-278.	7.3	108
30	Low-cost YBCO coated conductor technology. Superconductor Science and Technology, 2000, 13, 473-476.	1.8	107
31	Lithium Recovery from Aqueous Resources and Batteries: A Brief Review. Johnson Matthey Technology Review, 2018, 62, 161-176.	0.5	107
32	A Novel Electrolyte Salt Additive for Lithium-Ion Batteries with Voltages Greater than 4.7 V. Advanced Energy Materials, 2017, 7, 1601397.	10.2	103
33	Oxide ion electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 12, 357-364.	1.7	102
34	Additive manufacturing of near-net-shape bonded magnets: Prospects and challenges. Scripta Materialia, 2017, 135, 100-104.	2.6	102
35	Cube-textured nickel substrates for high-temperature superconductors. Superconductor Science and Technology, 1998, 11, 945-949.	1.8	101
36	Recent progress in the fabrication of high-J _c tapes by epitaxial deposition of YBCO on RABiTS. Physica C: Superconductivity and Its Applications, 2001, 357-360, 903-913.	0.6	101

#	ARTICLE	IF	CITATIONS
37	Enhanced flux pinning by BaZrO ₃ and (Gd,Y)2O ₃ nanostructures in metal organic chemical vapor deposited GdYBCO high temperature superconductor tapes. Applied Physics Letters, 2009, 94, .	1.5	98
38	YBCO coated conductors by an MOD/RABiTS process. IEEE Transactions on Applied Superconductivity, 2003, 13, 2458-2461.	1.1	96
39	Orienting Oxygen Vacancies for Fast Catalytic Reaction. Advanced Materials, 2013, 25, 6459-6463.	11.1	96
40	Waste Tire Derived Carbon-Polymer Composite Paper as Pseudocapacitive Electrode with Long Cycle Life. ChemSusChem, 2015, 8, 3576-3581.	3.6	94
41	Effect of carbon-doping in bulk superconducting MgB ₂ samples. Physica C: Superconductivity and Its Applications, 2001, 355, 1-5.	0.6	92
42	Second Generation HTS Wire Based on RABiTS Substrates and MOD YBCO. IEEE Transactions on Applied Superconductivity, 2005, 15, 2611-2616.	1.1	92
43	In Situ Observation of Solid Electrolyte Interphase Formation in Ordered Mesoporous Hard Carbon by Small-Angle Neutron Scattering. Journal of Physical Chemistry C, 2012, 116, 7701-7711.	1.5	92
44	Uniform performance of continuously processed MOD-YBCO-coated conductors using a textured Ni-W substrate. Superconductor Science and Technology, 2003, 16, L19-L22.	1.8	89
45	Enhancement of dielectric strength in nanocomposites. Nanotechnology, 2007, 18, 325704.	1.3	89
46	Sustainable Potassium-Ion Battery Anodes Derived from Waste-Tire Rubber. Journal of the Electrochemical Society, 2017, 164, A1234-A1238.	1.3	88
47	Tire-derived carbon composite anodes for sodium-ion batteries. Journal of Power Sources, 2016, 316, 232-238.	4.0	85
48	Texture formation and grain boundary networks in rolling assisted biaxially textured substrates and in epitaxial YBCO films on such substrates. Micron, 1999, 30, 463-478.	1.1	84
49	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO ₄ Cathodes. Chemistry of Materials, 2013, 25, 768-781.	3.2	83
50	LaCrO ₃ -based coatings on ferritic stainless steel for solid oxide fuel cell interconnect applications. Surface and Coatings Technology, 2004, 177-178, 65-72.	2.2	82
51	Additive manufacturing of soft magnets for electrical machines—a review. Materials Today Physics, 2020, 15, 100255.	2.9	81
52	Enhancement of flux pinning and critical currents in YBa ₂ Cu ₃ O _{7-x} films by nanoscale iridium pretreatment of substrate surfaces. Journal of Applied Physics, 2005, 98, 114309.	1.1	80
53	Comparative Study of Thickness Dependence of Critical Current Density of Yba ₂ Cu ₃ O _{7-x} on (100) SrTiO ₃ and on Rolling-assisted Biaxially Textured Substrates. Journal of Materials Research, 2002, 17, 1750-1757.	1.2	79
54	High J _c YBCO films on biaxially textured Ni with oxide buffer layers deposited using electron beam evaporation and sputtering. Physica C: Superconductivity and Its Applications, 1998, 302, 87-92.	0.6	77

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55	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
56	Strengthened, biaxially textured Ni substrate with small alloying additions for coated conductor applications. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 382, 251-262.	0.6	75
57	Epitaxial growth of La ₂ Zr ₂ O ₇ thin films on rolled Ni-substrates by sol-gel process for high T _c superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 336, 63-69.	0.6	74
58	Biaxially Textured YBa ₂ Cu ₃ O _{7-δ} Conductors on Rolling Assisted Biaxially Textured Substrates with Critical Current Densities of 2-3 mA/cm ² . <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1379-L1382.	0.8	72
59	Growth of biaxially textured RE ₂ O ₃ buffer layers on rolled-Ni substrates using reactive evaporation for HTS-coated conductors. <i>Superconductor Science and Technology</i> , 1999, 12, 319-325.	1.8	72
60	Lithium malonateborate additives enabled stable cycling of 5 V lithium metal and lithium ion batteries. <i>Nano Energy</i> , 2017, 40, 9-19.	8.2	72
61	Low cost Y-Ba-Cu-O coated conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 2927-2930.	1.1	70
62	Optimum lithium-ion conductivity in cubic Li _{7-x} La ₃ Hf _{2-x} Ta _x O ₁₂ . <i>Journal of Power Sources</i> , 2012, 209, 184-188.	4.0	70
63	Tailored recovery of carbons from waste tires for enhanced performance as anodes in lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 38213.	1.7	70
64	Surface barriers, irreversibility line, and pancake vortices in an aligned HgBa ₂ Ca ₂ Cu ₃ O _{8+δ} superconductor. <i>Physical Review B</i> , 1995, 52, 4438-4445.	1.1	68
65	Additive manufacturing of anisotropic hybrid NdFeB-SmFeN nylon composite bonded magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 467, 8-13.	1.0	68
66	YBa ₂ Cu ₃ O _{7-δ} coated conductors with high engineering current density. <i>Journal of Materials Research</i> , 2000, 15, 2647-2652.	1.2	65
67	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.	1.0	65
68	Preparation of Cr-doped Y ₃ Al ₅ O ₁₂ phosphors by heterogeneous precipitation methods and their luminescent properties. <i>Materials Research Bulletin</i> , 2000, 35, 217-224.	2.7	64
69	Chemical and Electrochemical Lithiation of LiVOPO ₄ Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 3849-3861.	3.2	63
70	Vortex fluctuations, magnetic penetration depth, and H _{c2} in Hg- and Tl-based high-T _c superconductors. <i>Physical Review B</i> , 1993, 48, 14031-14034.	1.1	61
71	Analysis of flux pinning in YBa ₂ Cu ₃ O _{7-δ} films by nanoparticle-modified substrate surfaces. <i>Physical Review B</i> , 2006, 74, .	1.1	60
72	Single-step synthesis of bulk HgBa ₂ Ca ₂ Cu ₃ O _{8+δ} . <i>Physica C: Superconductivity and Its Applications</i> , 1994, 222, 7-12.	0.6	59

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73	Spontaneous Growth of ZnCO ₃ Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. <i>Chemistry of Materials</i> , 2010, 22, 149-154.	3.2	58
74	High performance Cr, N-codoped mesoporous TiO ₂ microspheres for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1818-1824.	5.2	58
75	A POM-organic framework anode for Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22989-22995.	5.2	58
76	Insights into the Enhanced Cycle and Rate Performances of the F-substituted P2-type Oxide Cathodes for Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000135.	10.2	57
77	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.	2.7	55
78	Synthesis and magnetic characterization of the high-T _c superconducting compound HgBa ₂ CuO ₄ + δ . <i>Physica C: Superconductivity and Its Applications</i> , 1993, 213, 271-275.	0.6	54
79	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 90-95.	10.8	54
80	Bend strain tolerance of critical currents for YBa ₂ Cu ₃ O ₇ films deposited on rolled-textured (001)Ni. <i>Applied Physics Letters</i> , 1998, 73, 1904-1906.	1.5	53
81	La _{0.7} Sr _{0.3} MnO ₃ : A single, conductive-oxide buffer layer for the development of YBa ₂ Cu ₃ O ₇ coated conductors. <i>Applied Physics Letters</i> , 2001, 79, 2205-2207.	1.5	53
82	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2013, 3, 708-712.	10.2	51
83	Flux-pinning characteristics as a function of density of columnar defects comprised of self-assembled nanodots and nanorods in epitaxial YBa ₂ Cu ₃ O ₇ films for coated conductor applications. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 457, 41-46.	0.6	50
84	Fabrication of long lengths of YBCO coated conductors using a continuous reel-to-reel dip-coating unit. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3146-3149.	1.1	49
85	Enhanced flux pinning in MOCVD-YBCO films through Zr additions: systematic feasibility studies. <i>Superconductor Science and Technology</i> , 2010, 23, 014005.	1.8	49
86	A surfactant and template-free route for synthesizing ceria nanocrystals with tunable morphologies. <i>Journal of Materials Chemistry</i> , 2010, 20, 7776.	6.7	49
87	High temporal stability of supercurrents in MgB ₂ materials. <i>Superconductor Science and Technology</i> , 2001, 14, L17-L20.	1.8	48
88	Superconducting magnesium diboride films on Si with T _c ≈ 24 K grown via vacuum annealing from stoichiometric precursors. <i>Applied Physics Letters</i> , 2001, 79, 2603-2605.	1.5	48
89	A high performance hybrid battery based on aluminum anode and LiFePO ₄ cathode. <i>Chemical Communications</i> , 2016, 52, 1713-1716.	2.2	48
90	Membrane-Based Gas Separation Accelerated by Hollow Nanosphere Architectures. <i>Advanced Materials</i> , 2017, 29, 1603797.	11.1	48

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91	Fabrication of highly dense isotropic Nd-Fe-B nylon bonded magnets via extrusion-based additive manufacturing. Additive Manufacturing, 2018, 21, 495-500.	1.7	48
92	High Critical Current Density YBa ₂ Cu ₃ O _x Tapes Using the RABiTs Approach. Journal of Superconductivity and Novel Magnetism, 1998, 11, 481-487.	0.5	47
93	Bis(trimethylsilyl) 2-fluoromalonate derivatives as electrolyte additives for high voltage lithium ion batteries. Journal of Power Sources, 2019, 412, 527-535.	4.0	47
94	Inter- and intragrain transport measurements in YBa ₂ Cu ₃ O _{7-δ} deformation textured coated conductors. Applied Physics Letters, 2001, 79, 3998-4000.	1.5	45
95	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO ₂ nanotubes as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 20651-20657.	5.2	45
96	Properties of the chemically characterized thallium cuprate superconductors. Physica C: Superconductivity and Its Applications, 1990, 171, 135-146.	0.6	44
97	Lanthanum zirconate: A single buffer layer processed by solution deposition for coated conductor fabrication. Journal of Materials Research, 2002, 17, 2181-2184.	1.2	44
98	Chemical solution deposition of lanthanum zirconate barrier layers applied to low-cost coated-conductor fabrication. Journal of Materials Research, 2004, 19, 2117-2123.	1.2	44
99	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithium-ion Battery Applications. Advanced Energy Materials, 2014, 4, 1301368.	10.2	43
100	Neutron powder diffraction study of the superconducting quaternary intermetallic compound YNi ₂ B ₂ C. Physica C: Superconductivity and Its Applications, 1994, 227, 143-150.	0.6	42
101	Crystal Chemistry of HgBa ₂ Ca _{n-1} Cu _n O _{2n+2+δ} (n= 1, 2, 3, 4) Superconductors. Journal of Solid State Chemistry, 1996, 122, 221-230.	1.4	42
102	Microstructure of electron-beam-evaporated epitaxial yttria-stabilized zirconia/CeO ₂ bilayers on biaxially textured Ni tape. Physica C: Superconductivity and Its Applications, 1998, 307, 87-98.	0.6	42
103	Epitaxial YBa ₂ Cu ₃ O ₇ films on rolled-textured metals for high-temperature superconducting applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 86-94.	1.7	42
104	Fabrication of Long Lengths of Epitaxial Buffer Layers on Biaxially Textured Nickel Substrates Using a Continuous Reel-to-Reel Dip-Coating Unit. Journal of the American Ceramic Society, 2001, 84, 273-78.	1.9	41
105	The "filler effect": A study of solid oxide fillers with $\hat{1}^2$ -Li ₃ PS ₄ for lithium conducting electrolytes. Solid State Ionics, 2015, 283, 75-80.	1.3	41
106	Structure of the superconducting gap in MgB ₂ from point-contact spectroscopy. Superconductor Science and Technology, 2002, 15, 526-532.	1.8	40
107	Chemical Solution Deposition of Lanthanum Zirconate Buffer Layers on Biaxially Textured Ni-1.7% Fe-3% W Alloy Substrates for Coated-conductor Fabrication. Journal of Materials Research, 2002, 17, 1543-1549.	1.2	40
108	Vortex pinning and slow creep in high-J _c MgB ₂ thin films: a magnetic and transport study. Superconductor Science and Technology, 2005, 18, 970-976.	1.8	40

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109	Heteroepitaxial film silicon solar cell grown on Ni-W foils. Energy and Environmental Science, 2012, 5, 6052.	15.6	40
110	Manufacturing Processes for Permanent Magnets: Part I—Sintering and Casting. Jom, 2022, 74, 1279-1295.	0.9	40
111	Sol-gel Synthesis of LaAlO_3 ; Epitaxial Growth of LaAlO_3 Thin Films on $\text{SrTiO}_3(100)$. Journal of Materials Research, 1997, 12, 1017-1021.	1.2	39
112	Tire-derived carbon for catalytic preparation of biofuels from feedstocks containing free fatty acids. Carbon Resources Conversion, 2018, 1, 165-173.	3.2	38
113	Phase stability for the in situ growth of $\text{Nd}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_y$ films using pulsed-laser deposition. Applied Physics Letters, 1999, 74, 96-98.	1.5	37
114	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.	10.8	37
115	Strong surface-pinning effects in polycrystalline $\text{HgBa}_2\text{CuO}_4$ superconductors. Physical Review B, 1994, 50, 3330-3336.	1.1	36
116	Probing microstructure and electrolyte concentration dependent cell chemistry via operando small angle neutron scattering. Energy and Environmental Science, 2019, 12, 1866-1877.	15.6	36
117	Binder jet additive manufacturing method to fabricate near net shape crack-free highly dense Fe-6.5 wt.% Si soft magnets. Heliyon, 2019, 5, e02804.	1.4	36
118	Chemical methods to identify the origin of oxidation in the thallium cuprate superconductors. Journal of Solid State Chemistry, 1990, 87, 479-482.	1.4	35
119	Equilibrium superconducting properties of grain-aligned $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$. Physical Review B, 1995, 51, 11767-11772.	1.1	35
120	Continuous growth of epitaxial CeO_2 buffer layers on rolled Ni tapes by electron beam evaporation. Physica C: Superconductivity and Its Applications, 1999, 316, 27-33.	0.6	34
121	Lithium aluminum layered double hydroxide chlorides (LDH): Formation enthalpies and energetics for lithium ion capture. Journal of the American Ceramic Society, 2019, 102, 2398-2404.	1.9	34
122	Alternating current losses in biaxially textured $\text{YBa}_2\text{Cu}_3\text{O}_7$ films deposited on Ni tapes. Applied Physics Letters, 1997, 71, 2029-2031.	1.5	33
123	Electrical and magnetic properties of conductive Cu-based coated conductors. Applied Physics Letters, 2003, 83, 3963-3965.	1.5	33
124	Fabrication of high-critical current density $\text{YBa}_2\text{Cu}_3\text{O}_7$ films using a fluorine-free sol gel approach. Journal of Materials Research, 2003, 18, 677-681.	1.2	33
125	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. Advanced Materials, 2009, 21, 890-896.	11.1	33
126	Heteroepitaxial film crystal silicon on Al_2O_3 : new route to inexpensive crystal silicon photovoltaics. Energy and Environmental Science, 2011, 4, 3346.	15.6	33

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127	Growth of biaxially oriented conductive LaNiO ₃ buffer layers on textured Ni tapes for high-T _c -coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 314, 105-111.	0.6	32
128	Effect of Ca doping on the electrical conductivity of the high temperature proton conductor LaNbO ₄ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12751-12759.	3.8	32
129	Carbon polyaniline capacitive deionization electrodes with stable cycle life. <i>Desalination</i> , 2019, 464, 25-32.	4.0	32
130	Preparation of YBCO Films on CeO ₂ -Buffered (001) YSZ Substrates by a Non-Fluorine MOD Method. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1669-1676.	1.9	31
131	Control of Flux Pinning in MOD YBCO Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3347-3350.	1.1	31
132	Microstructure and magnetic properties of electrodeposited cobalt films. <i>Journal of Materials Science</i> , 2008, 43, 1644-1649.	1.7	31
133	Triangular Graphene Grain Growth on Cu Textured Cu Substrates. <i>Advanced Functional Materials</i> , 2011, 21, 3868-3874.	7.8	31
134	Long length fabrication of YBCO on rolling assisted biaxially textured substrates (RABiTS) using pulsed laser deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2276-2279.	1.1	30
135	Epitaxial growth of gadolinium oxide on roll-textured nickel using a solution growth technique. <i>Journal of Materials Research</i> , 2000, 15, 621-628.	1.2	30
136	Degradation of superconducting properties in MgB ₂ films by exposure to water. <i>Superconductor Science and Technology</i> , 2001, 14, 425-428.	1.8	30
137	Transverse compressive stress effect in Y-Ba-Cu-O coatings on biaxially textured Ni and Ni-W substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3530-3533.	1.1	30
138	Synthesis and characterization of anodized titanium-oxide nanotube arrays. <i>Journal of Materials Science</i> , 2009, 44, 2820-2827.	1.7	30
139	Chemical solution derived planarization layers for highly aligned IBAD-MgO templates. <i>Superconductor Science and Technology</i> , 2014, 27, 022002.	1.8	30
140	Additive manufacturing of highly dense anisotropic Nd-Fe-B bonded magnets. <i>Scripta Materialia</i> , 2020, 183, 91-95.	2.6	30
141	Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes. <i>Advanced Functional Materials</i> , 2021, 31, 2008708.	7.8	30
142	Thermoelectric power and resistivity measurements on oxygen-annealed HgBa ₂ Ca ₂ Cu ₃ O _{8+δ} superconductors. <i>Physical Review B</i> , 1995, 51, 1330-1333.	1.1	29
143	Microwave surface resistance of MgB ₂ . <i>Applied Physics Letters</i> , 2002, 80, 2347-2349.	1.5	29
144	The microwave surface impedance of MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2003, 16, 1-6.	1.8	29

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145	All MOD buffer/YBCO approach to coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 529-532.	0.6	29
146	Analytical modeling of residual stresses in multilayered superconductor systems. <i>Journal of Materials Science</i> , 2008, 43, 6223-6232.	1.7	29
147	Three-Dimensional Germanium Oxide Nanowire Networks. <i>Crystal Growth and Design</i> , 2009, 9, 35-39.	1.4	29
148	Studies on in situ magnetic alignment of bonded anisotropic Nd-Fe-B alloy powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 168-173.	1.0	29
149	A perspective on conducting oxide buffers for Cu-based YBCO-coated conductors. <i>Superconductor Science and Technology</i> , 2006, 19, R23-R29.	1.8	28
150	Vapor-Phase Synthesis of Gallium Phosphide Nanowires. <i>Crystal Growth and Design</i> , 2009, 9, 525-527.	1.4	28
151	Fluorination of MXene by Elemental F ₂ as Electrode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 1316-1324.	3.6	28
152	Alternative Buffer Architectures for High Critical Current Density YBCO Superconducting Deposits on Rolling Assisted Biaxially-Textured Substrates. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L178-L180.	0.8	27
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