Xavier Obradors

List of Publications by Year
in descending order

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594 papers	14,869 citations	30068 54 h-index	37202 96 g-index
598 all docs	598 docs citations	598 times ranked	8407 citing authors

#	Article	IF	Citations
1	Low Temperature Surface Spin-Glass Transition inÎ³-Fe2O3Nanoparticles. Physical Review Letters, 1998, 80, 181-184.	7.8	764
2	Strong isotropic flux pinning in solution-derived YBa2Cu3O7â^'x nanocomposite superconductor films. Nature Materials, 2007, 6, 367-373.	27.5	553
3	Colossal Magnetoresistance of Ferromagnetic Manganites: Structural Tuning and Mechanisms. Physical Review Letters, 1996, 76, 1122-1125.	7.8	500
4	High-field magnetoresistance at interfaces in manganese perovskites. Physical Review B, 1998, 58, R14697-R14700.	3.2	311
5	Coated conductors for power applications: materials challenges. Superconductor Science and Technology, 2014, 27, 044003.	3.5	309
6	Nanoscale strain-induced pair suppression asÂaÂvortex-pinning mechanism in high-temperature superconductors. Nature Materials, 2012, 11, 329-336.	27.5	298
7	High-temperature spin dynamics in CMR manganites: ESR and magnetization. Physical Review B, 1998, 58, 3233-3239.	3.2	249
8	X-ray analysis of the structural and dynamic properties of BaFe12O19 hexagonal ferrite at room temperature. Journal of Solid State Chemistry, 1985, 56, 171-181.	2.9	230
9	Progress towards all-chemical superconducting YBa2Cu3O7-coated conductors. Superconductor Science and Technology, 2006, 19, S13-S26.	3.5	205
10	Magnetic frustration and lattice dimensionality in SrCr8Ga4O19. Solid State Communications, 1988, 65, 189-192.	1.9	191
11	Pressure dependence of the metal-insulator transition in the charge-transfer oxidesRNiO3(R=Pr,Nd,Nd0.7La0.3). Physical Review B, 1993, 47, 12353-12356.	3.2	166
12	Cation distribution and intrinsic magnetic properties of Coâ€Tiâ€dopedMâ€type barium ferrite. Journal of Applied Physics, 1991, 70, 1614-1623.	2.5	155
13	Growth, nanostructure and vortex pinning in superconducting YBa₂Cu₃O₇thin films based on trifluoroacetate solutions. Superconductor Science and Technology, 2012, 25, 123001.	3.5	155
14	Crystal structure of strontium hexaferrite SrFe12O19. Journal of Solid State Chemistry, 1988, 72, 218-224.	2.9	143
15	Enhanced critical currents by CeO2additions in directionally solidified YBa2Cu3O7. Applied Physics Letters, 1994, 65, 1448-1450.	3.3	143
16	Magnetic properties of Î³â€Fe2O3nanoparticles obtained by vaporization condensation in a solar furnace. Journal of Applied Physics, 1996, 79, 2580-2586.	2.5	141
17	Neutron diffraction studies of some hexagonal ferrites: BaFe12O19, BaMg2î—¸W and BaCo2î—¸W. Journal of Magnetism and Magnetic Materials, 1986, 62, 57-67.	2.3	131
18	Pressure effects on the metal-insulator transition in magnetoresistive manganese perovskites. Physical Review B, 1997, 56, R10009-R10012.	3.2	128

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19	Critical currents and pinning mechanisms in directionally solidifiedYBa2Cu3O7-Y2BaCuO5composites. Physical Review B, 1996, 53, 2797-2810.	3.2	127
20	Vortex pinning in chemical solution nanostructured YBCO films. Superconductor Science and Technology, 2008, 21, 034008.	3.5	123
21	Chemical solution deposition: a path towards low cost coated conductors. Superconductor Science and Technology, 2004, 17, 1055-1064.	3.5	121
22	Reversible Resistive Switching and Multilevel Recording in La0.7Sr0.3MnO3Thin Films for Low Cost Nonvolatile Memories. Nano Letters, 2010, 10, 3828-3835.	9.1	121
23	Metallic state and the metal-insulator transition ofNdNiO3. Physical Review B, 1993, 48, 11666-11672.	3.2	97
24	The influence of growth conditions on the microstructure and critical currents of TFA-MOD YBa2Cu3O7films. Superconductor Science and Technology, 2005, 18, 1141-1150.	3.5	97
25	Chemical solution route to self-assembled epitaxial oxide nanostructures. Chemical Society Reviews, 2014, 43, 2200.	38.1	86
26	Magnetic dilution in the strongly frustratedkagomeantiferromagnetSrGa12â^'xCrxO19. Physical Review B, 1992, 46, 10786-10792.	3.2	83
27	Magnetic frustration in mixed valence manganites. Physical Review B, 1997, 55, R668-R671.	3.2	82
28	Microstructure of directionally solidified high-critical-currentYBa2Cu3O7-Y2BaCuO5composites. Physical Review B, 1994, 50, 7032-7045.	3.2	81
29	Microstructural influence on critical currents and irreversibility line in melt-texturedYBa2Cu3O7â^'xreannealed at high oxygen pressure. Physical Review B, 2002, 65, .	3.2	78
30	Acid anhydrides: a simple route to highly pure organometallic solutions for superconducting films. Superconductor Science and Technology, 2006, 19, 521-527.	3.5	78
31	Spin glass behaviour in an antiferromagnetic non-frustrated lattice: Sr2FeNbO6perovskite. Journal of Physics C: Solid State Physics, 1985, 18, L401-L405.	1.5	75
32	Metastable metallic state and hysteresis below the metal-insulator transition inPrNiO3. Physical Review B, 1992, 46, 15683-15688.	3.2	75
33	Evolution of Metal-Trifluoroacetate Precursors in the Thermal Decomposition toward High-Performance YBa₂Cu₃O₇ Superconducting Films. Chemistry of Materials, 2010, 22, 1686-1694.	6.7	74
34	Manganese perovskites: Thickâ€film based position sensors fabrication. Applied Physics Letters, 1996, 69, 1486-1488.	3.3	71
35	Smooth Stress Relief of Trifluoroacetate Metal-Organic Solutions for YBa2Cu3O7Film Growth. Chemistry of Materials, 2006, 18, 5897-5906.	6.7	70
36	Facile and efficient one-pot solvothermal and microwave-assisted synthesis of stable colloidal solutions of MFe2O4 spinel magnetic nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	70

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37	Structural and magnetic properties of BaFe12-xMnxO19 hexagonal ferrites. Journal of Magnetism and Magnetic Materials, 1984, 44, 118-128.	2.3	69
38	Simultaneous inductive determination of grain and intergrain critical current densities of YBa2Cu3O7â˜'x coated conductors. Applied Physics Letters, 2004, 84, 230-232.	3.3	69
39	Growth Mechanism, Microstructure, and Surface Modification of Nanostructured CeO2 Films by Chemical Solution Deposition. Advanced Functional Materials, 2006, 16, 1363-1372.	14.9	69
40	Band Gap Tuning of Solution-Processed Ferroelectric Perovskite BiFe_{1â€“x}Co_xO₃ Thin Films. Chemistry of Materials, 2019, 31, 947-954.	6.7	69
41	All chemical YBa₂Cu₃O₇ superconducting multilayers: Critical role of CeO₂ cap layer flatness. Journal of Materials Research, 2009, 24, 1446-1455.	2.6	68
42	Tailoring of microstructure and critical currents in directionally solidified. Superconductor Science and Technology, 1997, 10, A93-A119.	3.5	66
43	Oxygen excess and superconductivity at 45 K in La2CaCu2O6+y. Physica C: Superconductivity and Its Applications, 1990, 170, 153-160.	1.2	64
44	Bandwidth narrowing in bulk magnetoresistive oxides. Journal of Physics Condensed Matter, 1996, 8, L787-L793.	1.8	63
45	Precipitate size refinement by CeO₂ and Y₂BaCuO₅ additions in directionally solidified YBa₂Cu₃O₇. Journal of Materials Research, 1997, 12, 38-46.	2.6	63
46	Local disorder effects on the pressure dependence of the metalâ€“insulator transition in manganese perovskites. Applied Physics Letters, 1998, 72, 2607-2609.	3.3	60
47	Precursor Evolution and Nucleation Mechanism of YBa2Cu3Ox Films by TFA Metalâ˜'Organic Decomposition. Chemistry of Materials, 2006, 18, 6211-6219.	6.7	58
48	Directional solidification of (Re = Y, Nd): microstructure and superconducting properties. Superconductor Science and Technology, 1997, 10, 884-890.	3.5	57
49	Magnetic surface effects and low-temperature magnetoresistance in manganese perovskites. Journal of Physics Condensed Matter, 1998, 10, 1883-1890.	1.8	57
50	Selfâ€Organization of Heteroepitaxial CeO₂ Nanodots Grown from Chemical Solutions. Advanced Materials, 2007, 19, 3937-3942.	21.0	57
51	High quality YBa2Cu3O7thin films grown by trifluoroacetates metalorganic deposition. Superconductor Science and Technology, 2003, 16, 45-53.	3.5	56
52	Surface spin canting in BaFe12O19 fine particles. Journal of Magnetism and Magnetic Materials, 1993, 124, 228-238.	2.3	55
53	Critical current enhancement in YBCOâ€“Ag melt-textured composites: influence of microcrack density. Physica C: Superconductivity and Its Applications, 2000, 334, 7-14.	1.2	55
54	Superconducting YBa₂Cu₃O_{7â€“Î´} Nanocomposites Using Preformed ZrO₂ Nanocrystals: Growth Mechanisms and Vortex Pinning Properties. Advanced Electronic Materials, 2016, 2, 1600161.	5.1	55

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55	Magnetic transition in highly frustratedSrCr8Ga4O19: The archetypalkagomeÂ´ system. Physical Review B, 1994, 50, 15779-15786.	3.2	54
56	Anisotropy and strength of vortex pinning centers in YBa2Cu3O7â^'x coated conductors. Applied Physics Letters, 2007, 90, 162514.	3.3	54
57	Synthesis and characterization of new substituted barium-ferrite particles for magnetic recording. IEEE Transactions on Magnetics, 1988, 24, 1898-1900.	2.1	52
58	Pressure and magnetic-field effects on charge ordering inLa0.9Sr0.1MnO3. Physical Review B, 1998, 57, 14680-14683.	3.2	52
59	Hybrid solâ€“gel layers containing CeO2 nanoparticles as UV-protection of plastic lenses for concentrated photovoltaics. Solar Energy Materials and Solar Cells, 2014, 120, 175-182.	6.2	51
60	Aging of critical currents and irreversibility line in melt textured YBa2Cu3O7. Applied Physics Letters, 1995, 66, 772-774.	3.3	49
61	Epitaxial YBa₂Cu₃O_{7â^'x}nanocomposite thin films from colloidal solutions. Superconductor Science and Technology, 2015, 28, 124007.	3.5	49
62	Weak ferromagnetism and spin-glass-like behavior in the rare-earth cupratesR2CuO4(R=Tb, Dy, Ho, Er,) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	48
63	Formation and stability of HgCaO2, a competing phase in the synthesis of Hg1â^'xRexBa2Ca2Cu3O8+Î´ superconductor. Physica C: Superconductivity and Its Applications, 1998, 306, 34-46.	1.2	48
64	Mechanical properties of Ag-doped top-seeded melt-grown YBCO pellets. Brazilian Journal of Physics, 2008, 38, .	1.4	47
65	Nucleation and mesostrain influence on percolating critical currents of solution derived YBa2Cu3O7 superconducting thin films. Physica C: Superconductivity and Its Applications, 2012, 482, 58-67.	1.2	47
66	Low Temperature Stabilization of Nanoscale Epitaxial Spinel Ferrite Thin Films by Atomic Layer Deposition. Advanced Functional Materials, 2014, 24, 5368-5374.	14.9	47
67	Diminish electrostatic in piezoresponse force microscopy through longer or ultra-stiff tips. Applied Surface Science, 2018, 439, 577-582.	6.1	47
68	Exchange interactions in BaFe12O19. Applied Physics A: Solids and Surfaces, 1986, 39, 221-225.	1.4	46
69	Size-controlled spontaneously segregated Ba₂YTaO₆nanoparticles in YBa₂Cu₃O₇nanocomposites obtained by chemical solution deposition. Superconductor Science and Technology, 2014, 27, 044008.	3.5	46
70	Pressure-Controlled Synthesis of the Hg0.82Re0.18Ba2Ca2Cu3O8+Î´ Superconductor. Advanced Materials, 1998, 10, 1126-1129.	21.0	45
71	Crossover between Channeling and Pinning at Twin Boundaries inYBa2Cu3O7Thin Films. Physical Review Letters, 2006, 97, 257002.	7.8	45
72	Evolution of yttrium trifluoroacetate during thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2012, 108, 589-596.	3.6	45

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73	The loss of vortex line tension sets an upper limit to the irreversibility line in YBa2Cu3O7. Nature Physics, 2006, 2, 402-407.	16.7	44
74	Status of the European Union Project FASTGRID. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	43
75	Control of nanostructure and pinning properties in solution deposited YBa2Cu3O7â˜'x nanocomposites with preformed perovskite nanoparticles. Scientific Reports, 2019, 9, 5828.	3.3	43
76	Thermal Analysis for Low Temperature Synthesis of Oxide Thin Films from Chemical Solutions. Journal of Physical Chemistry C, 2013, 117, 20133-20138.	3.1	42
77	Solution-derived YBa₂Cu₃O₇nanocomposite films with a Ba₂YTaO₆secondary phase for improved superconducting properties. Superconductor Science and Technology, 2013, 26, 015001.	3.5	42
78	Neutron and X-ray diffraction study of ferrite nanocrystals obtained by microwave-assisted growth. A structural comparison with the thermal synthetic route. Journal of Applied Crystallography, 2014, 47, 414-420.	4.5	42
79	Disentangling vortex pinning landscape in chemical solution deposited superconducting YBa₂Cu₃O_{7â˜'x}films and nanocomposites. Superconductor Science and Technology, 2018, 31, 034004.	3.5	42
80	Intermediate phase evolution in YBCO thin films grown by the TFA process. Superconductor Science and Technology, 2010, 23, 014012.	3.5	41
81	Emerging Diluted Ferromagnetism in Highâ€T_c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	11.2	41
82	Nanostructural control in solution-derived epitaxial Ce_{1â˜'x}Gd_xO_{2â˜'y}films. Nanotechnology, 2008, 19, 395601.	2.6	40
83	Low Temperature Epitaxial Oxide Ultrathin Films and Nanostructures by Atomic Layer Deposition. Chemistry of Materials, 2012, 24, 3732-3737.	6.7	40
84	High pinning performance of YBa₂Cu₃O_{7â˜'x}films added with Y₂O₃nanoparticulate defects. Superconductor Science and Technology, 2015, 28, 024002.	3.5	40
85	Solution design for low-fluorine trifluoroacetate route to YBa₂Cu₃O₇films. Superconductor Science and Technology, 2016, 29, 024002.	3.5	40
86	Piezo-generated charge mapping revealed through direct piezoelectric force microscopy. Nature Communications, 2017, 8, 1113.	12.8	40
87	Extraordinary thermopower in magnetoresistive (La1â˜'xYx)0.67Ca0.33MnO3 oxides. Applied Physics Letters, 1996, 68, 2288-2290.	3.3	39
88	Influence of precursor oxygen stoichiometry on the formation of Hg, Re-1223 superconductors. Superconductor Science and Technology, 1999, 12, 120-127.	3.5	39
89	One-pot synthesis of stable colloidal solutions of MFe2O4 nanoparticles using oleylamine as solvent and stabilizer. Materials Research Bulletin, 2013, 48, 966-972.	5.2	39
90	Strain-driven broken twin boundary coherence in YBa2Cu3O7â˜'Î´ nanocomposite thin films. Applied Physics Letters, 2013, 102, .	3.3	39

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91	Ultrafast transient liquid assisted growth of high current density superconducting films. Nature Communications, 2020, 11, 344.	12.8	39
92	The tubular crystal structure of the new phase Bi4Sr8Cu5O19+x related to the superconducting perovskites. Physica C: Superconductivity and Its Applications, 1989, 157, 525-530.	1.2	38
93	Aging of the microstructure of melt-texturedYBa2Cu3O7/Y2BaCuO5composites and implications on their superconducting properties. Physical Review B, 1995, 51, 6645-6654.	3.2	38
94	Influence of porosity on the critical currents of trifluoroacetate-MOD YBa/sub 2/Cu/sub 3/O/sub 7/ films. IEEE Transactions on Applied Superconductivity, 2003, 13, 2504-2507.	1.7	38
95	Critical state in finite type-II superconducting rings. Physical Review B, 2005, 71, .	3.2	38
96	Singleâ€Crystalline La_{0.7}Sr_{0.3}MnO₃ Nanowires by Polymerâ€Templateâ€Directed Chemical Solution Synthesis. Advanced Materials, 2008, 20, 3672-3677.	21.0	38
97	display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math	3.2	38
98	Carrier Density Dependence of Magnetoresistance inTl2Mn2â^'xRuxO7Pyrochlores. Physical Review Letters, 1999, 83, 2022-2025.	7.8	36
99	The thermal decomposition of barium trifluoroacetate. Thermochimica Acta, 2012, 544, 77-83.	2.7	36
100	Anisotropic Vortex Plasticity in the Liquid State ofYBa2Cu3O7: Evidence for Quenchedc-Axis Vortex Correlation Length. Physical Review Letters, 2000, 84, 1571-1574.	7.8	35
101	Mechanisms of nanostructural and morphological evolution of CeO2functional films by chemical solution deposition. Nanotechnology, 2005, 16, 1809-1813.	2.6	35
102	Crystal structure and cationic distribution of BaFe4Ti2O11 R-type hexagonal ferrite. Materials Research Bulletin, 1983, 18, 1543-1553.	5.2	34
103	Interface pinning in high Tc-high Jc Nd1+xBa2â^'xCu3Oy directionally solidified in air. Applied Physics Letters, 1997, 71, 413-415.	3.3	34
104	Vortex liquid entanglement in twinnedYBa2Cu3O7/Y2BaCuO5composite superconductors. Physical Review B, 1999, 60, 13099-13106.	3.2	34
105	Neutron diffraction study of the crystallographic and magnetic structures of the BaFe12â^'xMnxO19 m-type hexagonal ferrites. Journal of Magnetism and Magnetic Materials, 1987, 69, 317-324.	2.3	33
106	Hexagonal ferrite particles for perpendicular recording prepared by the precursor method. IEEE Transactions on Magnetics, 1987, 23, 22-24.	2.1	33
107	Optimization of Flux Pinning in Bulk Melt Textured 1-2-3 Superconductors: Bringing Dislocations under Control. Advanced Materials, 2000, 12, 375-381.	21.0	33
108	Self-seeded YBCO welding induced by Ag additives. Physica C: Superconductivity and Its Applications, 2001, 363, 75-79.	1.2	33

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109	Stress-induced spontaneous dewetting of heteroepitaxialYBa2Cu3O7thin films. Physical Review B, 2006, 73, .	3.2	33
110	Spontaneous Outcropping of Selfâ€Assembled Insulating Nanodots in Solutionâ€Derived Metallic Ferromagnetic La_{0.7}Sr_{0.3}MnO₃ Films. Advanced Functional Materials, 2009, 19, 2139-2146.	14.9	33
111	Disentangling Epitaxial Growth Mechanisms of Solution Derived Functional Oxide Thin Films. Advanced Materials Interfaces, 2016, 3, 1600392.	3.7	33
112	Cation distribution and random spin canting in LaZnFe11O19. Journal of Physics C: Solid State Physics, 1986, 19, 6605-6621.	1.5	32
113	Bridgman growth and enhanced critical currents in textured YBa2Cu3O7 â€" Y2BaCuO5 composites. Journal of Alloys and Compounds, 1993, 195, 11-14.	5.5	31
114	Quench in bulk HTS materials - application to the fault current limiter. Superconductor Science and Technology, 2000, 13, 493-497.	3.5	31
115	Critical state in superconducting single-crystallineYBa2Cu3O7foams: Local versus long-range currents. Physical Review B, 2004, 70, .	3.2	31
116	Simultaneous determination of grain and grain-boundary critical currents inYBa2Cu3O7-coated conductors by magnetic measurements. Physical Review B, 2007, 75, .	3.2	31
117	Isotropic and anisotropic pinning in TFA-grown YBa₂Cu₃O_{7 â^'x}films with BaZrO₃nanoparticles. Superconductor Science and Technology, 2011, 24, 125010.	3.5	31
118	Thermal analysis of metal organic precursors for functional oxide preparation: Thin films versus powders. Thermochimica Acta, 2015, 601, 1-8.	2.7	31
119	Complex magnetic structures of the rare-earth cuprateR2Cu2O5(R=Y,Ho,Er,Yb,Tm). Physical Review B, 1991, 44, 4716-4719.	3.2	30
120	Magnetic phase diagram ofY2CuO4: Weak ferromagnetism and metamagnetic transition. Physical Review B, 1994, 50, 9924-9936.	3.2	30
121	Atomically Flat Surface: The Key Issue for Solution-Derived Epitaxial Multilayers. Applied Physics Express, 2008, 1, 121701.	2.4	30
122	Interaction between solution derived BaZrO3 nanodot interfacial templates and YBa2Cu3O7 films leading to enhanced critical currents. Acta Materialia, 2011, 59, 2075-2082.	7.9	30
123	Resistive switching in CeO2/La0.8Sr0.2MnO3 bilayer for non-volatile memory applications. Microelectronic Engineering, 2015, 147, 37-40.	2.4	30
124	Cation distribution and high field magnetization studies on SrFe<inf>12-x</inf>Cr<inf>x</inf>O<inf>19</inf>. IEEE Transactions on Magnetics, 1984, 20, 1636-1638.	2.1	29
125	Calculation of levitation forces in permanent magnet-superconductor systems using finite element analysis. Journal of Applied Physics, 1997, 82, 1461-1468.	2.5	29
126	High oxygen pressure generation of flux-pinning centers in melt-textured YBa2Cu3O7. Applied Physics Letters, 1999, 75, 1952-1954.	3.3	29

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127	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. Thin Solid Films, 2012, 520, 1949-1953.	1.8	29
128	Role of twin boundaries on vortex pinning of CSD YBCO nanocomposites. Superconductor Science and Technology, 2014, 27, 125009.	3.5	29
129	The influence of the semiconductor properties on the MÃ¶ssbauer emission spectra of 57Co cobalt oxide. Journal of Physics and Chemistry of Solids, 1984, 45, 181-190.	4.0	28
130	Paramagnetic effect at low and high magnetic fields in melt-texturedYBa2Cu3O7âˆ'Î´. Physical Review B, 2004, 70, .	3.2	28
131	Anisotropic c-axis pinning in interfacial self-assembled nanostructured trifluoracetate-YBa2Cu3O7âˆ'x films. Applied Physics Letters, 2009, 94, 172513.	3.3	28
132	Nanoscale magnetic structure and properties of solution-derived self-assembled La0.7Sr0.3MnO3 islands. Journal of Applied Physics, 2012, 111, 024307.	2.5	28
133	Flexible manufacturing of functional ceramic coatings by inkjet printing. Thin Solid Films, 2013, 548, 489-497.	1.8	28
134	Ultrafast Epitaxial Growth Kinetics in Functional Oxide Thin Films Grown by Pulsed Laser Annealing of Chemical Solutions. Chemistry of Materials, 2016, 28, 6136-6145.	6.7	28
135	Tunable Self-Assembly of YF₃ Nanoparticles by Citrate-Mediated Ionic Bridges. Journal of the American Chemical Society, 2018, 140, 2127-2134.	13.7	28
136	Magnetic interactions, weak ferromagnetism, and field-induced transitions inNd2NiO4. Physical Review B, 1992, 45, 2830-2843.	3.2	27
137	Polygonization of directionally solidified high critical current YBa2Cu3O6+x. Journal of Applied Physics, 1996, 79, 8847-8849.	2.5	27
138	A new method of computation of current distribution maps in bulk high-temperature superconductors: analysis and validation. Superconductor Science and Technology, 2003, 16, 1187-1194.	3.5	27
139	Ultra-fast microwave-assisted reverse microemulsion synthesis of Fe₃O₄@SiO₂ coreâ€“shell nanoparticles as a highly recyclable silver nanoparticle catalytic platform in the reduction of 4-nitroaniline. RSC Advances, 2016, 6, 88762-88769.	3.6	27
140	Epitaxial superconducting GdBa₂Cu₃O_{7âˆ'Î´}/Gd₂O₃ nanocomposite thin films from advanced low-fluorine solutions. Superconductor Science and Technology, 2017, 30, 125010.	3.5	27
141	Epitaxial YBa₂Cu₃O_{7âˆ'x}nanocomposite films and coated conductors from BaMO₃(M= Zr, Hf) colloidal solutions. Superconductor Science and Technology, 2018, 31, 044001.	3.5	27
142	Probing localized strain in solution-derived <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YB</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>âˆ'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></	2.4	27
143	Spin-disorder scattering and localization in magnetoresistive (La1âˆ'xYx)2/3Ca1/3MnO3perovskites. Physical Review B, 1996, 54, 10001-10007.	3.2	26
144	High critical current YBa2Cu3O7artificial joints using Ag foils as welding agent. Superconductor Science and Technology, 2004, 17, 182-185.	3.5	26

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145	Biaxial texture analysis ofYBa2Cu3O7-coated conductors by micro-Raman spectroscopy. Physical Review B, 2004, 70, .	3.2	26
146	Decomposition processes and structural transformations of cerium propionate into nanocrystalline ceria at different oxygen partial pressures. Journal of Nanoparticle Research, 2011, 13, 4085-4096.	1.9	26
147	Thermoanalytical study of the formation mechanism of yttria from yttrium acetate. Thermochimica Acta, 2011, 521, 84-89.	2.7	26
148	Structural defects in trifluoroacetate derived YBa₂Cu₃O₇thin films. Superconductor Science and Technology, 2012, 25, 065009.	3.5	26
149	Volume Resistive Switching in metallic perovskite oxides driven by the Metal-Insulator Transition. Journal of Electroceramics, 2017, 39, 185-196.	2.0	26
150	Bandwidth control of the spin diffusion through interfaces and the electron-phonon coupling in magnetoresistive manganites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1577-1591.	3.4	25
151	Orientation and shape selection of self-assembled epitaxial Ce1â^'xGdxO2â^'y nanostructures grown by chemical solution deposition. CrystEngComm, 2011, 13, 6719.	2.6	25
152	Growth of all-chemical high critical current YBa₂Cu₃O_{7â^'Î´} thick films and coated conductors. Superconductor Science and Technology, 2019, 32, 015004.	3.5	25
153	Current limiter based on melt processed YBCO bulk superconductors. IEEE Transactions on Applied Superconductivity, 1995, 5, 1071-1074.	1.7	24
154	Pinning regimes of grain boundary vortices inYBa2Cu3O7â^'xcoated conductors. Physical Review B, 2006, 73, .	3.2	24
155	Nanostructured Superconductors with Efficient Vortex Pinning. , 2011, , 303-349.		24
156	Nanocrystalline Ferroelectric BiFeO₃ Thin Films by Low-Temperature Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 6322-6328.	6.7	24
157	Ultra-high critical current densities of superconducting YBa2Cu3O7-Î´ thin films in the overdoped state. Scientific Reports, 2021, 11, 8176.	3.3	24
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