Xavier Obradors

List of Publications by Citations

587 papers	13,375 citations	52 h-index	91 g-index
598 ext. papers	14,070 ext. citations	3.7 avg, IF	5.97 L-index

#	Paper	IF	Citations
587	Low Temperature Surface Spin-Glass Transition in Fe2O3 Nanoparticles. *Physical Review Letters*, **1998**, 80, 181-184	7.4	719
586	Strong isotropic flux pinning in solution-derived YBa2Cu3O7-x nanocomposite superconductor films. *Nature Materials*, **2007**, 6, 367-73	27	509
585	Colossal magnetoresistance of ferromagnetic manganites: Structural tuning and mechanisms. *Physical Review Letters*, **1996**, 76, 1122-1125	7.4	467
584	High-field magnetoresistance at interfaces in manganese perovskites. *Physical Review B*, **1998**, 58, R14697-R14700	3.3	397
583	Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. *Nature Materials*, **2012**, 11, 329-36	27	262
582	Coated conductors for power applications: materials challenges. *Superconductor Science and Technology*, **2014**, 27, 044003	3.1	255
581	High-temperature spin dynamics in CMR manganites: ESR and magnetization. *Physical Review B*, **1998**, 58, 3233-3239	3.3	243
580	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	3.3	204
579	Progress towards all-chemical superconducting YBa2Cu3O7-coated conductors. *Superconductor Science and Technology*, **2006**, 19, S13-S26	3.1	199
578	Magnetic frustration and lattice dimensionality in SrCr8Ga4O19. *Solid State Communications*, **1988**, 65, 189-192	1.6	183
577	Pressure dependence of the metal-insulator transition in the charge-transfer oxides RNiO3 (R=Pr,Nd,Nd0.7La0.3). *Physical Review B*, **1993**, 47, 12353-12356	3.3	149
576	Growth, nanostructure and vortex pinning in superconducting YBa2Cu3O7thin films based on trifluoroacetate solutions. *Superconductor Science and Technology*, **2012**, 25, 123001	3.1	139
575	Cation distribution and intrinsic magnetic properties of Co-Ti-doped M-type barium ferrite. *Journal of Applied Physics*, **1991**, 70, 1614-1623	2.5	139
574	Enhanced critical currents by CeO2 additions in directionally solidified YBa2Cu3O7. *Applied Physics Letters*, **1994**, 65, 1448-1450	3.4	135
573	Magnetic properties of Fe2O3 nanoparticles obtained by vaporization condensation in a solar furnace. *Journal of Applied Physics*, **1996**, 79, 2580-2586	2.5	131
572	Pressure effects on the metal-insulator transition in magnetoresistive manganese perovskites. *Physical Review B*, **1997**, 56, R10009-R10012	3.3	123
571	Critical currents and pinning mechanisms in directionally solidified YBa2Cu3O7-Y2BaCuO5 composites. *Physical Review B*, **1996**, 53, 2797-2810	3.3	123

570	Crystal structure of strontium hexaferrite SrFe12O19. *Journal of Solid State Chemistry*, **1988**, 72, 218-224	3.3	118
569	Chemical solution deposition: a path towards low cost coated conductors. *Superconductor Science and Technology*, **2004**, 17, 1055-1064	3.1	117
568	Neutron diffraction studies of some hexagonal ferrites: BaFe12O19, BaMg2?W and BaCo2?W. *Journal of Magnetism and Magnetic Materials*, **1986**, 62, 57-67	2.8	116
567	Vortex pinning in chemical solution nanostructured YBCO films. *Superconductor Science and Technology*, **2008**, 21, 034008	3.1	111
566	Reversible resistive switching and multilevel recording in La0.7Sr0.3MnO3 thin films for low cost nonvolatile memories. *Nano Letters*, **2010**, 10, 3828-35	11.5	108
565	The influence of growth conditions on the microstructure and critical currents of TFA-MOD YBa2Cu3O7films. *Superconductor Science and Technology*, **2005**, 18, 1141-1150	3.1	95
564	Metallic state and the metal-insulator transition of NdNiO3. *Physical Review B*, **1993**, 48, 11666-11672	3.3	88
563	Chemical solution route to self-assembled epitaxial oxide nanostructures. *Chemical Society Reviews*, **2014**, 43, 2200-25	58.5	78
562	Microstructure of directionally solidified high-critical-current YBa2Cu3O7-Y2BaCuO5 composites. *Physical Review B*, **1994**, 50, 7032-7045	3.3	78
561	Magnetic frustration in mixed valence manganites. *Physical Review B*, **1997**, 55, R668-R671	3.3	75
560	Acid anhydrides: a simple route to highly pure organometallic solutions for superconducting films. *Superconductor Science and Technology*, **2006**, 19, 521-527	3.1	75
559	Magnetic dilution in the strongly frustrated kagome antiferromagnet SrGa12-xCrxO19. *Physical Review B*, **1992**, 46, 10786-10792	3.3	74
558	Spin glass behaviour in an antiferromagnetic non-frustrated lattice: Sr2FeNbO6perovskite. *Journal of Physics C: Solid State Physics*, **1985**, 18, L401-L405		71
557	Evolution of Metal-Trifluoroacetate Precursors in the Thermal Decomposition toward High-Performance YBa2Cu3O7 Superconducting Films. *Chemistry of Materials*, **2010**, 22, 1686-1694	9.6	70
556	Metastable metallic state and hysteresis below the metal-insulator transition in PrNiO3. *Physical Review B*, **1992**, 46, 15683-15688	3.3	70
555	Simultaneous inductive determination of grain and intergrain critical current densities of YBa2Cu3O7 coated conductors. *Applied Physics Letters*, **2004**, 84, 230-232	3.4	67
554	Manganese perovskites: Thick-film based position sensors fabrication. *Applied Physics Letters*, **1996**, 69, 1486-1488	3.4	66
553	Microstructural influence on critical currents and irreversibility line in melt-textured YBa2Cu3O7 reannealed at high oxygen pressure. *Physical Review B*, **2002**, 65,	3.3	65

552	All chemical YBa2Cu3O7 superconducting multilayers: Critical role of CeO2 cap layer flatness. *Journal of Materials Research*, **2009**, 24, 1446-1455	2.5	64
551	Tailoring of microstructure and critical currents in directionally solidified. *Superconductor Science and Technology*, **1997**, 10, A93-A119	3.1	64
550	Growth Mechanism, Microstructure, and Surface Modification of Nanostructured CeO2 Films by Chemical Solution Deposition. *Advanced Functional Materials*, **2006**, 16, 1363-1372	15.6	64
549	Smooth Stress Relief of Trifluoroacetate Metal-Organic Solutions for YBa2Cu3O7Film Growth. *Chemistry of Materials*, **2006**, 18, 5897-5906	9.6	64
548	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	2.3	62
547	Bandwidth narrowing in bulk magnetoresistive oxides. *Journal of Physics Condensed Matter*, **1996**, 8, L787-L793	1.8	61
546	Precipitate size refinement by CeO2 and Y2BaCuO5 additions in directionally solidified YBa2Cu3O7. *Journal of Materials Research*, **1997**, 12, 38-46	2.5	60
545	Oxygen excess and superconductivity at 45 K in La2CaCu2O6+y. *Physica C: Superconductivity and Its Applications*, **1990**, 170, 153-160	1.3	58
544	Structural and magnetic properties of BaFe12-xMnxO19 hexagonal ferrites. *Journal of Magnetism and Magnetic Materials*, **1984**, 44, 118-128	2.8	56
543	Local disorder effects on the pressure dependence of the metal□nsulator transition in manganese perovskites. *Applied Physics Letters*, **1998**, 72, 2607-2609	3.4	55
542	Self-Organization of Heteroepitaxial CeO2 Nanodots Grown from Chemical Solutions. *Advanced Materials*, **2007**, 19, 3937-3942	24	55
541	Precursor Evolution and Nucleation Mechanism of YBa2Cu3Ox Films by TFA Metal□rganic Decomposition. *Chemistry of Materials*, **2006**, 18, 6211-6219	9.6	55
540	Directional solidification of (Re = Y, Nd): microstructure and superconducting properties. *Superconductor Science and Technology*, **1997**, 10, 884-890	3.1	54
539	High quality YBa2Cu3O7thin films grown by trifluoroacetates metalorganic deposition. *Superconductor Science and Technology*, **2003**, 16, 45-53	3.1	54
538	Critical current enhancement in YBCO□Ag melt-textured composites: influence of microcrack density. *Physica C: Superconductivity and Its Applications*, **2000**, 334, 7-14	1.3	53
537	Magnetic surface effects and low-temperature magnetoresistance in manganese perovskites. *Journal of Physics Condensed Matter*, **1998**, 10, 1883-1890	1.8	52
536	Surface spin canting in BaFe12O19 fine particles. *Journal of Magnetism and Magnetic Materials*, **1993**, 124, 228-238	2.8	52
535	Anisotropy and strength of vortex pinning centers in YBa2Cu3O7□ coated conductors. *Applied Physics Letters*, **2007**, 90, 162514	3.4	51

534	Magnetic transition in highly frustrated SrCr8Ga4O19: The archetypal kagome-acute system. *Physical Review B*, **1994**, 50, 15779-15786	3.3	51
533	Pressure and magnetic-field effects on charge ordering in La0.9Sr0.1MnO3. *Physical Review B*, **1998**, 57, 14680-14683	3.3	49
532	Aging of critical currents and irreversibility line in melt textured YBa2Cu3O7. *Applied Physics Letters*, **1995**, 66, 772-774	3.4	48
531	. *IEEE Transactions on Magnetics*, **1988**, 24, 1898-1900	2	48
530	Hybrid sol□gel layers containing CeO2 nanoparticles as UV-protection of plastic lenses for concentrated photovoltaics. *Solar Energy Materials and Solar Cells*, **2014**, 120, 175-182	6.4	46
529	Weak ferromagnetism and spin-glass-like behavior in the rare-earth cuprates R2CuO4 (R=Tb, Dy, Ho, Er, Tm, and Y). *Physical Review B*, **1992**, 45, 4729-4737	3.3	45
528	Formation and stability of HgCaO2, a competing phase in the synthesis of Hg1□RexBa2Ca2Cu3O8+□superconductor. *Physica C: Superconductivity and Its Applications*, **1998**, 306, 34-46	1.3	44
527	Epitaxial YBa2Cu3O7□nanocomposite thin films from colloidal solutions. *Superconductor Science and Technology*, **2015**, 28, 124007	3.1	43
526	Superconducting YBa2Cu3O7□Nanocomposites Using Preformed ZrO2 Nanocrystals: Growth Mechanisms and Vortex Pinning Properties. *Advanced Electronic Materials*, **2016**, 2, 1600161	6.4	43
525	Mechanical properties of Ag-doped top-seeded melt-grown YBCO pellets. *Brazilian Journal of Physics*, **2008**, 38,	1.2	42
524	Intermediate phase evolution in YBCO thin films grown by the TFA process. *Superconductor Science and Technology*, **2010**, 23, 014012	3.1	41
523	Pressure-Controlled Synthesis of the Hg0.82Re0.18Ba2Ca2Cu3O8+□Superconductor. *Advanced Materials*, **1998**, 10, 1126-1129	24	41
522	Crossover between channeling and pinning at twin boundaries in YBa2Cu3O7 thin films. *Physical Review Letters*, **2006**, 97, 257002	7.4	41
521	The loss of vortex line tension sets an upper limit to the irreversibility line in YBa2Cu3O7. *Nature Physics*, **2006**, 2, 402-407	16.2	41
520	Nanostructural control in solution-derived epitaxial Ce(1-x)Gd(x)O(2-y) films. *Nanotechnology*, **2008**, 19, 395601	3.4	39
519	Exchange interactions in BaFe12O19. *Applied Physics A: Solids and Surfaces*, **1986**, 39, 221-225		39
518	Diminish electrostatic in piezoresponse force microscopy through longer or ultra-stiff tips. *Applied Surface Science*, **2018**, 439, 577-582	6.7	38
517	Thermal Analysis for Low Temperature Synthesis of Oxide Thin Films from Chemical Solutions. *Journal of Physical Chemistry C*, **2013**, 117, 20133-20138	3.8	37

516	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	1.3	37
515	Evolution of yttrium trifluoroacetate during thermal decomposition. *Journal of Thermal Analysis and Calorimetry*, **2012**, 108, 589-596	4.1	37
514	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	1.8	37
513	Influence of precursor oxygen stoichiometry on the formation of Hg, Re-1223 superconductors. *Superconductor Science and Technology*, **1999**, 12, 120-127	3.1	37
512	Extraordinary thermopower in magnetoresistive (La1−YYx)0.67Ca0.33MnO3 oxides. *Applied Physics Letters*, **1996**, 68, 2288-2290	3.4	37
511	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	3.8	36
510	Low Temperature Stabilization of Nanoscale Epitaxial Spinel Ferrite Thin Films by Atomic Layer Deposition. *Advanced Functional Materials*, **2014**, 24, 5368-5374	15.6	36
509	Size-controlled spontaneously segregated Ba2YTaO6nanoparticles in YBa2Cu3O7nanocomposites obtained by chemical solution deposition. *Superconductor Science and Technology*, **2014**, 27, 044008	3.1	36
508	Low Temperature Epitaxial Oxide Ultrathin Films and Nanostructures by Atomic Layer Deposition. *Chemistry of Materials*, **2012**, 24, 3732-3737	9.6	36
507	Single-Crystalline La0.7Sr0.3MnO3 Nanowires by Polymer-Template-Directed Chemical Solution Synthesis. *Advanced Materials*, **2008**, 20, 3672-3677	24	36
506	Critical state in finite type-II superconducting rings. *Physical Review B*, **2005**, 71,	3.3	36
505	Carrier Density Dependence of Magnetoresistance in Tl2Mn2−RuxO7 Pyrochlores. *Physical Review Letters*, **1999**, 83, 2022-2025	7.4	36
504	Aging of the microstructure of melt-textured YBa2Cu3O7/Y2BaCuO5 composites and implications on their superconducting properties. *Physical Review B*, **1995**, 51, 6645-6654	3.3	36
503	High pinning performance of YBa2Cu3O7−films added with Y2O3nanoparticulate defects. *Superconductor Science and Technology*, **2015**, 28, 024002	3.1	35
502	Guided vortex motion in YBa2Cu3O7 thin films with collective ratchet pinning potentials. *Physical Review B*, **2012**, 85,	3.3	35
501	Solution-derived YBa2Cu3O7nanocomposite films with a Ba2YTaO6secondary phase for improved superconducting properties. *Superconductor Science and Technology*, **2013**, 26, 015001	3.1	35
500	Solution design for low-fluorine trifluoroacetate route to YBa2Cu3O7films. *Superconductor Science and Technology*, **2016**, 29, 024002	3.1	34
499	Mechanisms of nanostructural and morphological evolution of CeO2functional films by chemical solution deposition. *Nanotechnology*, **2005**, 16, 1809-1813	3.4	34

498	Anisotropic vortex plasticity in the liquid state of YBa2Cu3O7: evidence for quenched c-axis vortex correlation length. *Physical Review Letters*, **2000**, 84, 1571-4	7.4	34
497	Crystal structure and cationic distribution of BaFe4Ti2O11 R-type hexagonal ferrite. *Materials Research Bulletin*, **1983**, 18, 1543-1553	5.1	34
496	Emerging Diluted Ferromagnetism in High- Superconductors Driven by Point Defect Clusters. *Advanced Science*, **2016**, 3, 1500295	13.6	34
495	Band Gap Tuning of Solution-Processed Ferroelectric Perovskite BiFe Co O Thin Films. *Chemistry of Materials*, **2019**, 31, 947-954	9.6	34
494	Status of the European Union Project FASTGRID. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	33
493	One-pot synthesis of stable colloidal solutions of MFe2O4 nanoparticles using oleylamine as solvent and stabilizer. *Materials Research Bulletin*, **2013**, 48, 966-972	5.1	33
492	Strain-driven broken twin boundary coherence in YBa2Cu3O7□nanocomposite thin films. *Applied Physics Letters*, **2013**, 102, 081906	3.4	33
491	Stress-induced spontaneous dewetting of heteroepitaxial YBa2Cu3O7 thin films. *Physical Review B*, **2006**, 73,	3.3	33
490	Vortex liquid entanglement in twinned YBa2Cu3O7/Y2BaCuO5 composite superconductors. *Physical Review B*, **1999**, 60, 13099-13106	3.3	33
489	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	1.3	33
488	Hexagonal ferrite particles for perpendicular recording prepared by the precursor method. *IEEE Transactions on Magnetics*, **1987**, 23, 22-24	2	33
487	Piezo-generated charge mapping revealed through direct piezoelectric force microscopy. *Nature Communications*, **2017**, 8, 1113	17.4	32
486	The thermal decomposition of barium trifluoroacetate. *Thermochimica Acta*, **2012**, 544, 77-83	2.9	32
485	Spontaneous Outcropping of Self-Assembled Insulating Nanodots in Solution-Derived Metallic Ferromagnetic La0.7Sr0.3MnO3 Films. *Advanced Functional Materials*, **2009**, 19, 2139-2146	15.6	32
484	Interface pinning in high Tc-high Jc Nd1+xBa2□Cu3Oy directionally solidified in air. *Applied Physics Letters*, **1997**, 71, 413-415	3.4	31
483	Disentangling vortex pinning landscape in chemical solution deposited superconducting YBa2Cu3O7□films and nanocomposites. *Superconductor Science and Technology*, **2018**, 31, 034004	3.1	30
482	Isotropic and anisotropic pinning in TFA-grown YBa2Cu3O7 □films with BaZrO3nanoparticles. *Superconductor Science and Technology*, **2011**, 24, 125010	3.1	30
481	Atomically Flat Surface: The Key Issue for Solution-Derived Epitaxial Multilayers. *Applied Physics Express*, **2008**, 1, 121701	2.4	30

480	Simultaneous determination of grain and grain-boundary critical currents in YBa2Cu3O7-coated conductors by magnetic measurements. *Physical Review B*, **2007**, 75,	3.3	30
479	Bridgman growth and enhanced critical currents in textured YBa2Cu3O7 Y2BaCuO5 composites. *Journal of Alloys and Compounds*, **1993**, 195, 11-14	5.7	30
478	Magnetic phase diagram of Y2CuO4: Weak ferromagnetism and metamagnetic transition. *Physical Review B*, **1994**, 50, 9924-9936	3.3	30
477	Interaction between solution derived BaZrO3 nanodot interfacial templates and YBa2Cu3O7 films leading to enhanced critical currents. *Acta Materialia*, **2011**, 59, 2075-2082	8.4	29
476	Self-seeded YBCO welding induced by Ag additives. *Physica C: Superconductivity and Its Applications*, **2001**, 363, 75-79	1.3	29
475	High oxygen pressure generation of flux-pinning centers in melt-textured YBa2Cu3O7. *Applied Physics Letters*, **1999**, 75, 1952-1954	3.4	29
474	Cation distribution and random spin canting in LaZnFe11O19. *Journal of Physics C: Solid State Physics*, **1986**, 19, 6605-6621		29
473	Thermal analysis of metal organic precursors for functional oxide preparation: Thin films versus powders. *Thermochimica Acta*, **2015**, 601, 1-8	2.9	28
472	Calculation of levitation forces in permanent magnet-superconductor systems using finite element analysis. *Journal of Applied Physics*, **1997**, 82, 1461-1468	2.5	28
471	Critical state in superconducting single-crystalline YBa2Cu3O7 foams: Local versus long-range currents. *Physical Review B*, **2004**, 70,	3.3	28
470	Quench in bulk HTS materials - application to the fault current limiter. *Superconductor Science and Technology*, **2000**, 13, 493-497	3.1	28
469	Neutron diffraction study of the crystallographic and magnetic structures of the BaFe12MnxO19 m-type hexagonal ferrites. *Journal of Magnetism and Magnetic Materials*, **1987**, 69, 317-324	2.8	28
468	Cation distribution and high field magnetization studies on SrFe12-xCrxO19. *IEEE Transactions on Magnetics*, **1984**, 20, 1636-1638	2	28
467	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. *Thin Solid Films*, **2012**, 520, 1949-1953	2.2	27
466	Flexible manufacturing of functional ceramic coatings by inkjet printing. *Thin Solid Films*, **2013**, 548, 489-497	2.2	27
465	Nanoscale magnetic structure and properties of solution-derived self-assembled La0.7Sr0.3MnO3 islands. *Journal of Applied Physics*, **2012**, 111, 024307	2.5	27
464	Anisotropic c-axis pinning in interfacial self-assembled nanostructured trifluoracetate-YBa2Cu3O7 films. *Applied Physics Letters*, **2009**, 94, 172513	3.4	26
463	Complex magnetic structures of the rare-earth cuprates R2Cu2O5 (R=Y,Ho,Er,Yb,Tm). *Physical Review B*, **1991**, 44, 4716-4719	3.3	26

462	Decomposition processes and structural transformations of cerium propionate into nanocrystalline ceria at different oxygen partial pressures. *Journal of Nanoparticle Research*, **2011**, 13, 4085-4096	2.3	25
461	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	25
460	Polygonization of directionally solidified high critical current YBa2Cu3O6+x. *Journal of Applied Physics*, **1996**, 79, 8847-8849	2.5	25
459	The influence of the semiconductor properties on the M□ssbauer emission spectra of 57Co cobalt oxide. *Journal of Physics and Chemistry of Solids*, **1984**, 45, 181-190	3.9	25
458	Disentangling Epitaxial Growth Mechanisms of Solution Derived Functional Oxide Thin Films. *Advanced Materials Interfaces*, **2016**, 3, 1600392	4.6	24
457	Orientation and shape selection of self-assembled epitaxial Ce1□GdxO2□nanostructures grown by chemical solution deposition. *CrystEngComm*, **2011**, 13, 6719	3.3	24
456	Thermoanalytical study of the formation mechanism of yttria from yttrium acetate. *Thermochimica Acta*, **2011**, 521, 84-89	2.9	24
455	Paramagnetic effect at low and high magnetic fields in melt-textured YBa2Cu3O7□*Physical Review B*, **2004**, 70,	3.3	24
454	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	3.1	24
453	Spin-disorder scattering and localization in magnetoresistive (La1-xYx)2/3Ca1/3MnO3 perovskites. *Physical Review B*, **1996**, 54, 10001-10007	3.3	24
452	Epitaxial superconducting GdBa2Cu3O7□/Gd2O3 nanocomposite thin films from advanced low-fluorine solutions. *Superconductor Science and Technology*, **2017**, 30, 125010	3.1	23
451	Control of nanostructure and pinning properties in solution deposited YBaCuO nanocomposites with preformed perovskite nanoparticles. *Scientific Reports*, **2019**, 9, 5828	4.9	23
450	Resistive switching in CeO2/La0.8Sr0.2MnO3 bilayer for non-volatile memory applications. *Microelectronic Engineering*, **2015**, 147, 37-40	2.5	23
449	Biaxial texture analysis of YBa2Cu3O7-coated conductors by micro-Raman spectroscopy. *Physical Review B*, **2004**, 70,	3.3	23
448	Ultra-fast microwave-assisted reverse microemulsion synthesis of Fe3O4@SiO2 core□shell nanoparticles as a highly recyclable silver nanoparticle catalytic platform in the reduction of 4-nitroaniline. *RSC Advances*, **2016**, 6, 88762-88769	3.7	22
447	Magnetic anisotropy and spin diffusion through spin disordered interfaces in magnetoresistive manganites. *Journal of Applied Physics*, **1998**, 83, 7058-7060	2.5	22
446	Pinning regimes of grain boundary vortices in YBa2Cu3O7□ coated conductors. *Physical Review B*, **2006**, 73,	3.3	22
445	High critical current YBa2Cu3O7artificial joints using Ag foils as welding agent. *Superconductor Science and Technology*, **2004**, 17, 182-185	3.1	22

444	In-field Hall probe mapping system for characterization of YBCO welds. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 3136-3139	1.8	22
443	Characterization of superconducting rings using an in-field Hall probe magnetic mapping system. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 3667-3670	1.8	22
442	Electron spin resonance and magnetization in perovskite and pyrochlore manganites. *Journal of Applied Physics*, **1998**, 83, 7201-7203	2.5	22
441	Enhanced critical currents in melt textured YBa2Cu3O7 by cold isostatic pressing. *Applied Physics Letters*, **1999**, 74, 73-75	3.4	22
440	Magnetic interactions, weak ferromagnetism, and field-induced transitions in Nd2NiO4. *Physical Review B*, **1992**, 45, 2830-2843	3.3	22
439	Role of twin boundaries on vortex pinning of CSD YBCO nanocomposites. *Superconductor Science and Technology*, **2014**, 27, 125009	3.1	21
438	Growth of ferroelectric Ba0.8Sr0.2TiO3 epitaxial films by ultraviolet pulsed laser irradiation of chemical solution derived precursor layers. *Applied Physics Letters*, **2015**, 106, 262903	3.4	21
437	Structural defects in trifluoroacetate derived YBa2Cu3O7thin films. *Superconductor Science and Technology*, **2012**, 25, 065009	3.1	21
436	Low-power superconducting motors. *Superconductor Science and Technology*, **2008**, 21, 034010	3.1	21
435	Atomically flat MOD La0.7Sr0.3MnO3buffer layers for high critical current YBa2Cu3O7TFA films. *Superconductor Science and Technology*, **2007**, 20, S230-S238	3.1	21
434	All-chemical YBa2Cu3O7coated conductors on IBAD-YSZ stainless steel substrates. *Superconductor Science and Technology*, **2006**, 19, L1-L4	3.1	21
433	Bandwidth dependence of the charge-order and Curie temperatures in manganese perovskites. *Physical Review B*, **1999**, 60, 6266-6269	3.3	21
432	. *IEEE Transactions on Applied Superconductivity*, **1995**, 5, 1071-1074	1.8	21
431	Magnetic properties of colossal magnetoresistive manganese oxides. *Journal of Applied Physics*, **1996**, 79, 5182	2.5	21
430	Ultrafast Epitaxial Growth Kinetics in Functional Oxide Thin Films Grown by Pulsed Laser Annealing of Chemical Solutions. *Chemistry of Materials*, **2016**, 28, 6136-6145	9.6	21
429	Nanocrystalline Ferroelectric BiFeO3 Thin Films by Low-Temperature Atomic Layer Deposition. *Chemistry of Materials*, **2015**, 27, 6322-6328	9.6	20
428	Single crystalline La0.7Sr0.3MnO3 molecular sieve nanowires with high temperature ferromagnetism. *Journal of the American Chemical Society*, **2011**, 133, 4053-61	16.4	20
427	Self-organized Ce(1-x)Gd(x)O(2-y) nanowire networks with very fast coarsening driven by attractive elastic interactions. *Small*, **2010**, 6, 2716-24	11	20

426	Growth of strain-induced self-assembled BaZrO3 nanodots from chemical solutions. *Surface Science* , **2007**, 601, 2680-2683	1.8	20
425	In-plane Mg doping in YBa2Cu3O7: influence on the superconducting anisotropy. *Superconductor Science and Technology*, **2000**, 13, 1067-1073	3.1	20
424	Improvement of superconducting (Hg,Re)-1223 ceramics synthesised by the sealed quartz tube technique. *Physica C: Superconductivity and Its Applications*, **1999**, 328, 80-88	1.3	20
423	Chemical tuning of the colossal magnetoresistance of ferromagnetic perovskites. *Europhysics Letters*, **1996**, 34, 379-384	1.6	20
422	Field induced decoupling of superconducting bands in oxygen deficient melt-textured YBa2Cu3O7□. *Applied Physics Letters*, **1993**, 63, 3081-3083	3.4	20
421	Cation distribution and magnetization of BaFe12□xCoxSnxO19 (x=0.9,1.28) single crystals. *Journal of Applied Physics*, **1992**, 72, 4608-4614	2.5	20
420	Ferromagnetic layers in Y2Cu2O5: a neutron diffraction study. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1990**, 149, 319-327	2.3	20
419	M□ssbauer study of bipyramidal site occupancy in BaFe12□MnxO19. *Solid State Communications*, **1984**, 50, 821-824	1.6	20
418	Tunable Self-Assembly of YF Nanoparticles by Citrate-Mediated Ionic Bridges. *Journal of the American Chemical Society*, **2018**, 140, 2127-2134	16.4	19
417	Integration of atomic layer deposition CeO2 thin films with functional complex oxides and 3D patterns. *Thin Solid Films*, **2014**, 553, 7-12	2.2	19
416	Thermal decomposition of barium trifluoroacetate thin films. *Thermochimica Acta*, **2013**, 556, 58-62	2.9	19
415	Computation of Current Distribution in YBCO Tapes With Defects Obtained From Hall Magnetic Mapping by Inverse Problem Solution. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 3408-3412	1.8	19
414	The role of stacking faults in the critical current density of MOD films through a thickness dependence study. *Superconductor Science and Technology*, **2009**, 22, 015022	3.1	19
413	Comparison of ac susceptibility of YBa2Cu3O7 coated conductors and single crystals. *Applied Physics Letters*, **2004**, 85, 5646-5648	3.4	19
412	Growth related Y2BaCuO5 particle concentration micro-inhomogeneity in the growth sectors of TSMG YBa2Cu3O7/Y2BaCuO5 bulk superconductor. *Physica C: Superconductivity and Its Applications* , **2003**, 384, 125-129	1.3	19
411	Tuning the critical currents in bulk MTG YBCO for current limiting devices. *Superconductor Science and Technology*, **2000**, 13, 879-885	3.1	19
410	Ultrafast transient liquid assisted growth of high current density superconducting films. *Nature Communications*, **2020**, 11, 344	17.4	18
409	Epitaxial YBa2Cu3O7□nanocomposite films and coated conductors from BaMO3(M= Zr, Hf) colloidal solutions. *Superconductor Science and Technology*, **2018**, 31, 044001	3.1	18

408	Competition between Superconductor - Ferromagnetic stray magnetic fields in YBaCuO films pierced with Co nano-rods. *Scientific Reports*, **2017**, 7, 5663	4.9	18
407	Volume Resistive Switching in metallic perovskite oxides driven by the Metal-Insulator Transition. *Journal of Electroceramics*, **2017**, 39, 185-196	1.5	18
406	Nanostructured Superconductors with Efficient Vortex Pinning **2011**, 303-349		18
405	Vortex dynamics at high ac amplitudes of trifluoracetate route grown YBa2Cu3O7-BaZrO3 nanocomposites. *Physical Review B*, **2010**, 81,	3.3	18
404	Nanoindentation of multilayered epitaxial YBa2Cu3O7- thin films and coated conductors. *Thin Solid Films*, **2011**, 519, 2470-2476	2.2	18
403	Magnetic flux penetration and creep in a ceramic superconductor. *Superconductor Science and Technology*, **1996**, 9, 161-175	3.1	18
402	Magnetic irreversibility and surface barriers in grain-aligned Re-doped Hg-1223. *Physica C: Superconductivity and Its Applications*, **1998**, 296, 29-36	1.3	18
401	All-chemical high-Jc YBa2Cu3O7 multilayers with SrTiO3 as cap layer. *Journal of Materials Research*, **2006**, 21, 1106-1116	2.5	18
400	Paramagnetic Meissner effect at high fields in melt-textured YBa2Cu3O7 *Physica C: Superconductivity and Its Applications*, **2001**, 354, 219-222	1.3	18
399	. *IEEE Transactions on Applied Superconductivity*, **1995**, 5, 1549-1552	1.8	18
398	Probing localized strain in solution-derived YBa2Cu3O7 nanocomposite thin films. *Physical Review Materials*, **2017**, 1,	3.2	18
397	Thermal decomposition of yttrium propionate: film and powder. *Journal of Analytical and Applied Pyrolysis*, **2018**, 133, 225-233	6	17
396	Ultraviolet pulsed laser crystallization of Ba0.8Sr0.2TiO3 films on LaNiO3-coated silicon substrates. *Ceramics International*, **2016**, 42, 4039-4047	5.1	17
395	Magnetoresistance in epitaxial thin films of La0.85Ag0.15MnO3 produced by polymer assisted deposition. *Applied Physics Letters*, **2011**, 99, 083113	3.4	17
394	Microstructure, irreversibility line and flux dynamics in plastically deformed directionally solidified YBa2Cu3O7. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 75, 431-441		17
393	Three dimensional dislocation substructure in NdBa2Cu3Oy. *Applied Physics Letters*, **1998**, 73, 2660-2662	3.4	17
392	Fabrication of melt-textured Nd123 superconductors with Nd2BaO4 addition. *Applied Superconductivity*, **1998**, 6, 129-137		17
391	Correlation between grain and grain-boundary critical current densities in ex situ coated conductors with variable YBa2Cu3O7 layer thickness. *Applied Physics Letters*, **2006**, 88, 122502	3.4	17

390	Current distribution maps in large YBCO melt-textured blocks. *Physica C: Superconductivity and Its Applications*, **2003**, 385, 539-543	1.3	17
389	Influence of twin boundaries and randomly oriented correlated disorder on the liquid vortex plasticity of YBa2Cu3O7. *Physical Review B*, **2003**, 67,	3.3	17
388	In-plane flux pinning in melt-textured YBa2Cu3O7Y2BaCuO5 composites. *Physical Review B*, **1998**, 58, 15198-15207	3.3	17
387	Radial and axial flux superconducting motors in a levitating rotor configuration. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1249-1252	1.8	17
386	Effects of re-doping on superconducting properties and formation of Hg-1223 superconductors. *Physica C: Superconductivity and Its Applications*, **1999**, 328, 257-269	1.3	17
385	Magnetic behavior of R2Cu2O5 cuprates studied by neutron diffraction. *Physical Review B*, **1995**, 51, 6594-6601	3.3	17
384	Magnetic-Field-Induced Weak Ferromagnetic Order in Y 2 CuO 4. *Europhysics Letters*, **1992**, 20, 651-656	1.6	17
383	Magnetic study of spin freezing in the spin glass BaCo6Ti6O19: Static and dynamic analysis. *Physical Review B*, **1992**, 46, 8994-9001	3.3	17
382	Critical fields and fundamental lengths in a superconducting electron-doped Pr1.85Ce0.15CuO4-y single crystal. *Physical Review B*, **1992**, 46, 5581-5587	3.3	17
381	Dynamics of the bipyramidal ions in SrFe12O19studied by Mossbauer spectroscopy. *Journal of Physics C: Solid State Physics*, **1988**, 21, 2335-2345		17
380	Growth of all-chemical high critical current YBa2Cu3O7thick films and coated conductors. *Superconductor Science and Technology*, **2019**, 32, 015004	3.1	17
379	Unveiling the Nucleation and Coarsening Mechanisms of Solution-Derived Self-Assembled Epitaxial Ce0.9Gd0.1O2y Nanostructures. *Crystal Growth and Design*, **2017**, 17, 504-516	3.5	16
378	Optical properties of ceriazirconia epitaxial films grown from chemical solutions. *Materials Chemistry and Physics*, **2013**, 138, 462-467	4.4	16
377	Vertical (La,Sr)MnO3 Nanorods from Track-Etched Polymers Directly Buffering Substrates. *Advanced Functional Materials*, **2010**, 20, 892-897	15.6	16
376	Porosity induced magnetic granularity in epitaxial YBa2Cu3O7 thin films. *Physical Review B*, **2006**, 73,	3.3	16
375	Y2BaCuO5-free melt textured YBa2Cu3O7: a search for the reference sample. *Physica C: Superconductivity and Its Applications*, **2000**, 336, 213-226	1.3	16
374	High magnetic polarizability of magnetoresistive manganese oxides. *Solid State Communications*, **1996**, 97, 1033-1038	1.6	16
373	Field-Induced Diamagnetic Fluctuations at Low Temperature in Pr 1.85 Ce 0.15 CuO 4- y Superconductor. *Europhysics Letters*, **1993**, 24, 595-600	1.6	16

372	Weak ferromagnetism and spin-glass-like behavior in Tb2CuO4. *Journal of Applied Physics*, **1991**, 70, 6095-6097	2.5	16
371	Effect of the axial stress and the magnetic field on the critical current and the electric resistance of the joints between HTS coated conductors. *Superconductor Science and Technology*, **2015**, 28, 064001	3.1	15
370	Thermoanalytical study of the decomposition of yttrium trifluoroacetate thin films. *Thin Solid Films*, **2013**, 545, 200-204	2.2	15
369	Misfit relaxation of La0.7Sr0.3MnO3 thin films by a nanodot segregation mechanism. *Applied Physics Letters*, **2011**, 98, 041903	3.4	15
368	Chemical solution approaches to YBa2Cu3O7_delta-Au nanocomposite superconducting thin films. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 3245-55	1.3	15
367	Growth rate control and solid□as modeling of TFA-YBa2Cu3O7thin film processing. *Superconductor Science and Technology*, **2010**, 23, 034005	3.1	15
366	Anomalous ac magnetic susceptibility of high-temperature YBa2Cu3O7□superconductors. *Physical Review B*, **2005**, 72,	3.3	15
365	Fluctuation conductivity in melt-textured REBa2Cu3O7□superconductors. *Physica C: Superconductivity and Its Applications*, **2003**, 399, 87-92	1.3	15
364	Subgrain boundary structure in melt-textured RBa2Cu3O7 (R=Y,Nd): Limitation of critical currents versus flux pinning. *Physical Review B*, **2001**, 64,	3.3	15
363	The crystal structure of a new quaternary ferrite: Ba12Fe28Ti15O84. *Journal of Solid State Chemistry*, **1991**, 91, 131-139	3.3	15
362	Magnetic transitions in Nd2NiO4. *Physical Review B*, **1991**, 43, 10451-10454	3.3	15
361	Observation of magnetic order in the double-layer system La2MCu2O6+ delta (M=Ca,Sr). *Physical Review B*, **1992**, 46, 3084-3088	3.3	15
360	Rare-earth magnetic ordering in the R2CuO4 cuprates (R=Tb, Dy , Ho, Er and Tm). *Physica C: Superconductivity and Its Applications*, **1993**, 213, 81-87	1.3	15
359	Cationic distribution, magnetization and magnetic anisotropy of Co2+ doped M-type barium ferrite. *Journal of Magnetism and Magnetic Materials*, **1990**, 83, 465-467	2.8	15
358	Ferromagnetic 1D oxide nanostructures grown from chemical solutions in confined geometries. *Chemical Society Reviews*, **2014**, 43, 2042-54	58.5	14
357	Magnetic and structural characterization of inkjet-printedTFAYBa2Cu3O7□/MODCZO/ABADYSZ/SS coated conductors. *Superconductor Science and Technology*, **2013**, 26, 125004	3.1	14
356	Growth of Chemical Solution Deposited $^{rm TFA}{rm YBCO}/^{rm MOD}({rm Ce},{rm Zr}){rm O}_{2}/^{rm ABAD}{rm YSZ/SS}$ Coated Conductors. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 3212-3215	1.8	14
355	Thickness control of solution deposited YBCO superconducting films by use of organic polymeric additives. *Journal of Materials Research*, **2007**, 22, 2330-2338	2.5	14

354	Chemical solution techniques for epitaxial growth of oxide buffer and YBa2Cu3O7 films. *Journal of the European Ceramic Society*, **2004**, 24, 1831-1835	6	14
353	In-plane and out-of-plane resistivities of vicinal Hg-1212 thin films. *Applied Physics Letters*, **2000**, 77, 1369-1371	3.4	14
352	Thermoelectric power, specific heat, and giant magnetoresistance of La0.85MnO3. *Journal of Applied Physics*, **1998**, 83, 5264-5269	2.5	14
351	Hybrid superconducting fault current limiter based on bulk melt textured YBa/sub 2/Cu/sub 3/O/sub 7/ ceramic composites. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1308-1311	1.8	14
350	Upper critical field anisotropy and dissipative flux motion in Nd?Ce?Cu?O single crystals. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1913-1914	1.3	14
349	Electron-spin resonance in the spin-glass-like system Fe1-xGaxSbO4. *Physical Review B*, **1991**, 44, 4455-4460	3.7	14
348	Influence of internal electric field on the transport properties of the magnetoplumbite system BaFe12-xMnxO19. *Journal of Physics C: Solid State Physics*, **1987**, 20, 441-449		14
347	Accelerated growth by flash heating of high critical current trifluoroacetate solution derived epitaxial superconducting YBa2Cu3O7 films. *Journal of Materials Chemistry C*, **2019**, 7, 4748-4759	7.1	13
346	In situstudy through electrical resistance of growth rate of trifluoroacetate-based solution-derived YBa2Cu3O7films. *Superconductor Science and Technology*, **2015**, 28, 024006	3.1	13
345	Nucleation and growth rate influence on microstructure and critical currents of TFA□Ba2Cu3O7 under low-pressure conditions. *Journal of Materials Research*, **2010**, 25, 2371-2379	2.5	13
344	Orientational ordering of solution derived epitaxial Gd-doped ceria nanowires induced by nanoscratching. *Nanotechnology*, **2010**, 21, 025302	3.4	13
343	Lattice compression and charge transfer in electron-doped L2□CexCuO4 superconductors. *Physica C: Superconductivity and Its Applications*, **1996**, 268, 173-179	1.3	13
342	Spin glass transition in BaCo6Ti6O19. *Journal of Applied Physics*, **1991**, 70, 6172-6174	2.5	13
341	Magnetic properties of Ba2SmCu3O9□ high Tc superconductor. *Solid State Communications*, **1987**, 64, 707-710	1.6	13
340	Engineering Oxygen Migration for Homogeneous Volume Resistive Switching in 3-Terminal Devices. *Advanced Electronic Materials*, **2019**, 5, 1800629	6.4	12
339	Ultrafast Crystallization of Ce0.9Zr0.1O2□ Epitaxial Films on Flexible Technical Substrates by Pulsed Laser Irradiation of Chemical Solution Derived Precursor Layers. *Crystal Growth and Design*, **2015**, 15, 1957-1967	3.5	12
338	Induced shape controllability by tailored precursor design in thermal and microwave-assisted synthesis of (mathrm{Fe}_{3}mathrm{O}_{4}) nanoparticles. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	12
337	Electrochemical Tuning of Metal Insulator Transition and Nonvolatile Resistive Switching in Superconducting Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 30522-30531	9.5	12

336	Multiple superconducting transition and phase separation in melt-textured YBa2Cu3O7□. *Physica C: Superconductivity and Its Applications*, **2013**, 495, 202-207	1.3	12
335	Melting temperature of YBa2Cu3O7□ and GdBa2Cu3O7□ at subatmospheric partial pressure. *Journal of Alloys and Compounds*, **2017**, 692, 787-792	5.7	12
334	Enhanced Vortex Pinning in YBCO Coated Conductors With BZO Nanoparticles From Chemical Solution Deposition. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 3258-3261	1.8	12
333	Designing and testing of a sensor based on a magnetoresistive manganese perovskite thick film. *Journal of Applied Physics*, **1997**, 81, 4298-4300	2.5	12
332	Conducting La0.7Sr0.3MnO3-superconducting YBa2Cu3O7 epitaxial bilayers grown by chemical solution deposition. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 1357-1358	1.3	12
331	Interface control in all metalorganic deposited coated conductors: Influence on critical currents. *Journal of Materials Research*, **2006**, 21, 2176-2184	2.5	12
330	Preparation of MZrO/sub 3/ (M=Ba,Sr) buffer layers on surface oxidized Ni/NiO templates by PLD and MOD. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 3024-3027	1.8	12
329	Magnetization and critical current of finite superconducting YBa2Cu3O7 rings. *Physical Review B*, **2005**, 72,	3.3	12
328	Synthesizing the Y-123/Y-211 composite by the PVA method. *Superconductor Science and Technology*, **2002**, 15, 566-571	3.1	12
327	Weak ferromagnetism induced by the external ield above TN in GdzCuO4. *Journal of Applied Physics* , **1993**, 73, 5710-5712	2.5	12
326	Metamagnetism in single-crystal Pr2NiO4. *Physical Review B*, **1993**, 47, 5834-5840	3.3	12
325	Intergranular flux penetration and creep in strongly connected YBa2Cu3O7 ceramics. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2941-2942	1.3	12
324	Directional solidification of YBCO rods for current lead applications. *Cryogenics*, **1994**, 34, 833-835	1.8	12
323	Noncritical behavior and remanent magnetization in magnetically frustrated FeSbO4. *Physical Review B*, **1991**, 44, 691-698	3.3	12
322	Spin glass transition in iron antimonate: The inducement by cationic ordering of localized magnetic order in a mixed metal oxide with a superlattice. *Journal of Solid State Chemistry*, **1987**, 71, 582-586	3.3	12
321	The dynamics of bipyramidal ions in magnetoplumbite-like hexagonal ferrite systems revisited. *European Physical Journal B*, **1988**, 70, 379-386	1.2	12
320	Hybrid YBa2Cu3O7 Superconducting–Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. *Advanced Electronic Materials*, **2017**, 3, 1700037	6.4	11
319	Direct Monolithic Integration of Vertical Single Crystalline Octahedral Molecular Sieve Nanowires on Silicon. *Chemistry of Materials*, **2014**, 26, 1019-1028	9.6	11

318	Laser-induced metal organic decomposition for Ce0.9Zr0.1O2−δ epitaxial thin film growth. *Journal of Alloys and Compounds*, **2013**, 574, 246-254	5.7	11
317	Thermodynamic stability analysis of isometric and elongated epitaxial Ce1−xGdxO2−δ nanostructures on perovskite substrates. *Physical Review B*, **2010**, 82,	3.3	11
316	Water determination of precursor solutions with oxidant cations by the Karl Fischer method: the YBCO-TFA case. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 347-352	2.3	11
315	Effect of melt-processing temperature on the microstructure and the levitation force of YBCO melt-textured superconductors. *Superconductor Science and Technology*, **1997**, 10, 583-589	3.1	11
314	Grain and grain boundary vortex dynamics in YBa2Cu3O7-δ coated conductor by ac susceptibility. *Journal of Applied Physics*, **2007**, 102, 073911	2.5	11
313	The identification of grain boundary networks of distinct critical current density in YBa2Cu3O7−x coated conductors. *Superconductor Science and Technology*, **2004**, 17, 1283-1288	3.1	11
312	Pushing and trapping phenomena in YBa2Cu3O7 melt-textured composites with BaZrO3 and Ag additions. *Superconductor Science and Technology*, **2005**, 18, S77-S81	3.1	11
311	Critical current determination of artificially welded HTS samples by in-field Hall mapping technique. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 3632-3635	1.8	11
310	Weak ferromagnetism and magnetic interactions in La2NiO4. *Journal of Physics Condensed Matter*, **1992**, 4, 487-496	1.8	11
309	Short-range antiferromagnetic correlations in spin-glass-like iron antimonate of composition FeSbO4. *Journal of Physics Condensed Matter*, **1990**, 2, 6801-6806	1.8	11
308	Magnetic structure and supermagnetic properties of β-FeOOH. *IEEE Transactions on Magnetics*, **1984**, 20, 1524-1526	2	11
307	Direct observation of apical oxygen vacancies in the high-temperature superconductor YBa2Cu3O7−x. *Physical Review Materials*, **2019**, 3,	3.2	11
306	Surface Charge Reversal Method for High-Resolution Inkjet Printing of Functional Water-Based Inks. *Advanced Functional Materials*, **2015**, 25, 768-775	15.6	10
305	Vortex Lattice Instabilities in YBa2Cu3O7−δ Nanowires. *Materials*, **2018**, 11,	3.5	10
304	Intrinsic anisotropy versus effective pinning anisotropy in YBa2Cu3O7 thin films and nanocomposites. *Physical Review B*, **2019**, 100,	3.3	10
303	Ink Jet Printing for Functional Ceramic Coatings. *Journal of Imaging Science and Technology*, **2011**, 55, 040304	1.2	10
302	High temperature transformation of electrospun BaZrO3 nanotubes into nanoparticle chains. *CrystEngComm*, **2011**, 13, 7224	3.3	10
301	Size-dependent strain in epitaxial (001) gadolinium-doped ceria nanoislands. *Applied Physics Letters*, **2010**, 97, 231904	3.4	10

300	Pinning Landscape Analysis in YBCO Films With Epitaxial and/or Non-Coherent BZO Nanoparticles. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 3243-3246	1.8	10
299	Vortex dynamics in thin films of YBa2Cu3O7 with three-dimensional nanoscale patterns. *Physical Review B*, **2009**, 79,	3.3	10
298	Magnetization of Ferromagnetic-SC Heterostructures for Trapped Field Low Power Motors. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 1629-1632	1.8	10
297	Universal correlation between critical current density and normal-state resistivity in porous YBa2Cu3O7thin films. *Superconductor Science and Technology*, **2007**, 20, 895-899	3.1	10
296	Extremely high current-limitation capability of underdoped YBa2Cu3O7 superconductor. *Applied Physics Letters*, **2003**, 83, 4809-4811	3.4	10
295	Determination of the inter- and intra-granular critical currents in superconducting YBa2Cu3O7welds. *Superconductor Science and Technology*, **2005**, 18, 1227-1232	3.1	10
294	Hg0.95Re0.05Ba2Ca2Cu3O8+deltasuperconductor: sample preparation and transport properties under hydrostatic pressure. *Superconductor Science and Technology*, **2000**, 13, 140-147	3.1	10
293	Magnetic frustration in Y-doped manganites: Electron spin resonance and magnetization. *Journal of Applied Physics*, **2000**, 87, 5603-5605	2.5	10
292	Muon spin relaxation in Re-substituted HgA2Can1CunO2n+2+x (A=Sr,Ba; n=2,3) superconductors. *Physical Review B*, **1999**, 60, 7579-7584	3.3	10
291	Copper deficiency and superconductivity in Nd2CexCuO4 oxides. *Physica C: Superconductivity and Its Applications*, **1996**, 259, 75-82	1.3	10
290	Synthesis of BaFe12O19 small particles: A neutron thermodiffractometry study. *Physica B: Condensed Matter*, **1989**, 156-157, 36-39	2.8	10
289	Quenching of ferrimagneticlike ordering in SrCr8Fe4O19 hexagonal ferrite. *Journal of Applied Physics*, **1988**, 63, 4091-4093	2.5	10
288	Encoding Magnetic States in Monopole-Like Configurations Using Superconducting Dots. *Advanced Science*, **2016**, 3, 1600207	13.6	10
287	Untangling surface oxygen exchange effects in YBaCuO thin films by electrical conductivity relaxation. *Physical Chemistry Chemical Physics*, **2017**, 19, 14129-14140	3.6	9
286	Thermal decomposition of CuProp2: In-situ analysis of film and powder pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2019**, 140, 312-320	6	9
285	Unique nanostructural features in Fe, Mn-doped YBCO thin films. *Superconductor Science and Technology*, **2016**, 29, 125009	3.1	9
284	Magnetic stability against calcining of microwave-synthesized CoFe2O4 nanoparticles. *New Journal of Chemistry*, **2016**, 40, 6890-6898	3.6	9
283	Vortex creep in TFAYBCO nanocomposite films. *Superconductor Science and Technology*, **2014**, 27, 115008	3.1	9

282	Photoemission electron microscopy study of sub-200 nm self-assembled La□Sr□La□MnO□epitaxial islands. *Nanoscale*, **2013**, 5, 2990-8	7.7	9
281	Nanowall pinning for enhanced pinning force in YBCO films with nanofabricated structures. *Physica C: Superconductivity and Its Applications*, **2014**, 506, 178-183	1.3	9
280	Chemical synthesis of oriented ferromagnetic LaSr-2 □4 manganese oxide molecular sieve nanowires. *Chemical Communications*, **2012**, 48, 6223-5	5.8	9
279	Stability and evolution of stacking faults in melt textured YBa2Cu3O7□. *Applied Physics Letters*, **1997**, 70, 2192-2194	3.4	9
278	Competing magnetic interactions in manganese perovskites. *Journal of Applied Physics*, **1997**, 81, 5481-5483	2.5	9
277	Processing and levitation force in top-seeded YBCO. *IEEE Transactions on Applied Superconductivity*, **1997**, 7, 1809-1812	1.8	9
276	Magnetization and FMR in La0.7Pb0.3MnO3 single crystals. *Journal of Magnetism and Magnetic Materials*, **1998**, 177-181, 867-868	2.8	9
275	High temperature deformation of Bridgman melt-textured YBCO. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1998**, 53, 143-148	3.1	9
274	Correlation between the magnetic irreversibility limit and the zero resistance point in different granular YBa2Cu3O7□superconductors. *Physical Review B*, **2008**, 77,	3.3	9
273	Grain and grain-boundary critical currents in coated conductors with noncorrelating YBa2Cu3O7 and substrate grain-boundary networks. *Applied Physics Letters*, **2006**, 88, 132508	3.4	9
272	Reactivity between Nd1□xBa2□xCu3O7□□x/2and Nd4□2zBa2□2zCu2□zO10□2zphases in superconducting NdBaCuO powders and melt textured bulk samples. *Superconductor Science and Technology*, **2003**, 16, 865-870	3.1	9
271	Epitaxial nucleation and growth of buffer layers and Y123 coated conductors deposited by metal-organic decomposition. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 806-809	1.3	9
270	AC losses in a toroidal superconducting transformer. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 2341-2343	1.8	9
269	Effect of hydrostatic pressure on HgBa2Ca2Cu3O8+□superconductor doped with Re. *Physical Review B*, **2000**, 61, 15454-15461	3.3	9
268	Magnetic behavior of the BaFe4-2xSn2+xCoxO11 system: From cluster glass to kagome-acute phase. *Physical Review B*, **1993**, 48, 16440-16448	3.3	9
267	M□ssbauer study of the mixed ferrimagnetic-spin glass phase in SrFe12□ CrxO19 hexagonal ferrites. *Hyperfine Interactions*, **1986**, 28, 569-572	0.8	9
266	PARTICLE SIZE AND MAGNETIC PROPERTIES OF BaFe12O19 PREPARED BY THE ORGANOMETALLIC PRECURSOR METHOD. *Journal De Physique Colloque*, **1985**, 46, C6-335-C6-338		9
265	. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	9

264	Radical and oxidative pathways in the pyrolysis of a barium propionate-acetate salt. *Journal of Analytical and Applied Pyrolysis*, **2019**, 141, 104640	6	8
263	Geometrically controlled ratchet effect with collective vortex motion. *New Journal of Physics*, **2015**, 17, 073022	2.9	8
262	Nanoscale Correlations between Metal-Insulator Transition and Resistive Switching Effect in Metallic Perovskite Oxides. *Small*, **2020**, 16, e2001307	11	8
261	Inkjet printing of multifilamentary YBCO for low AC loss coated conductors. *Journal of Physics: Conference Series*, **2014**, 507, 022010	0.3	8
260	The memory effect of nanoscale memristors investigated by conducting scanning probe microscopy methods. *Beilstein Journal of Nanotechnology*, **2012**, 3, 722-30	3	8
259	Study of the in-plane and c-axis fluctuation conductivity of melt-textured YBa2Cu3O7 under hydrostatic pressure. *European Physical Journal B*, **2011**, 83, 423-428	1.2	8
258	Absence of self-heated bistable resistivity in La0.7Sr0.3MnO3 films up to high current densities. *Physical Review B*, **2009**, 80,	3.3	8
257	Microstructure and flux dynamics in YBa2Cu3O7 plastically deformed at room temperature. *Physica C: Superconductivity and Its Applications*, **1998**, 301, 129-140	1.3	8
256	Growth and microstructure of MTG REBa2Cu3O7/REBaCuO5 with heavy rare earth elements. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1119-1122	1.3	8
255	Design, building up and testing of a 400 hybrid FCL. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1680-1683	1.3	8
254	Melt textured YBa2Cu3O7: fundamental properties and current limitation applications. *Physica C: Superconductivity and Its Applications*, **2002**, 378-381, 1-10	1.3	8
253	Inductive analysis of magnetic granularity effects in YBCO IBAD and RABiTS coated conductors. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 2599-2602	1.8	8
252	Melting of Ag/Y Ba2Cu3O7 interfaces: the path to large area high critical current welds. *Superconductor Science and Technology*, **2005**, 18, S168-S172	3.1	8
251	Quench behavior of the switching elements of a hybrid HTS current limiter. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 2406-2409	1.8	8
250	Microstructure and pinning in high--high- directionally solidified in air. *Superconductor Science and Technology*, **1998**, 11, 165-168	3.1	8
249	Hexaferrite particles by coprecipitation and lyophilization. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 293-294	2.8	8
248	Melt growth and superconducting properties of textured Ag-YBa/sub 2/Cu/sub 3/O/sub 7/ conductors. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1483-1486	1.8	8
247	Synthesis and transport properties of substituted Tl2Mn2O7 pyrochlore. *Journal of Materials Chemistry*, **1999**, 9, 743-748		8

246	A SR search for localised moments in YBa2(Cu1Znx)3O7. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1085-1086	1.3	8
245	Antiferromagnetism in La 2 Sr x NiO 4. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 1273-1274	1.3	8
244	The chemistry of YBa2Cu3O7: a neutron powder thermodiffractometry study. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1671-1672	1.3	8
243	Meissner effect and critical fields in an inhomogeneous Ba2HoCu3O7-x high-Tc superconductor. *Physical Review B*, **1988**, 38, 2455-2459	3.3	8
242	Magnetic properties of amorphous Fe-Si compositionally modulated thin films. *Journal of Applied Physics*, **1988**, 63, 3206-3208	2.5	8
241	. *IEEE Transactions on Magnetics*, **1988**, 24, 1829-1831	2	8
240	Novel Fe3O4@GNF@SiO2 nanocapsules fabricated through the combination of an in situ formation method and SiO2 coating process for magnetic resonance imaging. *RSC Advances*, **2017**, 7, 24690-24697	3.7	7
239	Intrinsic anisotropy and pinning anisotropy in nanostructured YBa2Cu3O7 from microwave measurements. *Superconductor Science and Technology*, **2020**, 33, 044017	3.1	7
238	Nanocomposite lanthanum strontium manganite thin films formed by using a chemical solution deposition. *Applied Physics Letters*, **2012**, 100, 023103	3.4	7
237	Nanostrain induced pinning in YBa2Cu3O7 nanocomposites even close to the irreversibility line. *Superconductor Science and Technology*, **2012**, 25, 122001	3.1	7
236	Paramagnetic Meissner effect at high fields in YCaBaCuO single crystal and melt-textured YBaCuO. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S111-S112	1.3	7
235	Enhanced interface pinning and aging by high pressure oxygenation of melt textured Nd1+xBa2Cu3O7 *Physica C: Superconductivity and Its Applications*, **1998**, 308, 115-122	1.3	7
234	Vortex pinning regimes in YBa2Cu3O7 bulk boundaries investigated by quantitative magnetic Hall microscopy. *Superconductor Science and Technology*, **2008**, 21, 125002	3.1	7
233	Oxygenation mechanism of TSMG YBCO bulk superconductor. *Journal of Physics: Conference Series*, **2008**, 97, 012160	0.3	7
232	Artificial magnetic granularity effects on patterned epitaxial YBa2Cu3O7 thin films. *Physical Review B*, **2007**, 76,	3.3	7
231	Transport versus magnetization technique for determination of critical current densities in superconducting tapes with macroscopic defects. *Superconductor Science and Technology*, **2005**, 18, 388-394	3.1	7
230	Influence of disorder on the vortex-lattice melting in twinned oxygen-deficient ortho-II YBa2Cu3Oy (y6.6). *Physical Review B*, **1998**, 57, 8687-8695	3.3	7
229	Screen Printed La2/3Sr1/3MnO3 Thick Films on Alumina Substrates. *Journal of Materials Research*, **1998**, 13, 2623-2631	2.5	7

228	Magnetic irreversibility in granular superconductors: AC susceptibility study. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1843-1844	1.3	7
227	The nature of magnetic order in YBa2(Cu0.9Fe0.1)3O7.2: A neutron polarisation analysis study. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1173-1174	1.3	7
226	Magnetic transitions in Pr2NiO4 single crystal. *Journal of Applied Physics*, **1991**, 70, 6329-6331	2.5	7
225	SR study of magnetic order in La 2NiO4+ *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 941-943	2.8	7
224	Diamagnetism and critical currents of Bi?Ca?Sr?Cu?O samples. *Cryogenics*, **1989**, 29, 379-383	1.8	7
223	Magnetic energy absorption in sintered YBa2Cu3O7 samples. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1533-1534	1.3	7
222	DIPOLAR MAGNETIC ANISOTROPY IN SOME UNIAXIAL HEXAGONAL FERRITES. *Journal De Physique Colloque*, **1985**, 46, C6-345-C6-348		7
221	CATIONIC DISTRIBUTION IN BaFe12-2xCoxSnxO19 HEXAGONAL FERRITES SUITABLE FOR MAGNETIC RECORDING. *Journal De Physique Colloque*, **1988**, 49, C8-939-C8-940		7
220	Orientation symmetry breaking in self-assembled Ce1 GdxO2 nanowires derived from chemical solutions. *RSC Advances*, **2016**, 6, 97226-97236	3.7	7
219	Depairing Current at High Magnetic Fields in Vortex-Free High-Temperature Superconducting Nanowires. *Nano Letters*, **2019**,	11.5	6
218	Vortex pinning properties at dc and microwave frequencies of YBa2Cu3O7-x films with nanorods and nanoparticles. *Superconductor Science and Technology*, **2020**, 33, 074006	3.1	6
217	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa2Cu3O7 Film Growth by Transient Liquid-Assisted Growth. *Journal of Physical Chemistry C*, **2020**, 124, 15574-15584	3.8	6
216	Local strain-driven migration of oxygen vacancies to apical sites in YBaCuO. *Nanoscale*, **2020**, 12, 5922-5931	7.7	6
215	Inkjet Printing Multideposited YBCO on CGO/LMO/MgO/Y2O3/Al2 O3/Hastelloy Tape for 2G-Coated Conductors. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	6
214	Thickness concentration iscosity relationships in spin-coated metalorganic ceria films containing polyvinylpyrrolidone. *Journal of Sol-Gel Science and Technology*, **2014**, 72, 21-29	2.3	6
213	Can We Trust on the Thermal Analysis of Metal Organic Powders for thin film preparation?. *Materials Research Society Symposia Proceedings*, **2012**, 1449, 13		6
212	Current distribution in HTSC tapes obtained by inverse problem calculation. *Journal of Physics: Conference Series*, **2010**, 234, 012009	0.3	6
211	Evolution of the microstructure during high-temperature creep and oxygenation in directionally solidified YBa2Cu3O7-x. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1997**, 76, 837-855		6

210	Synthesis of Hg1−xRexBa2Ca2Cu3O8+x Pure Phase at Normal Pressures. *Journal of Superconductivity and Novel Magnetism*, **1998**, 11, 125-126		6
209	Successful synthesis of Hg0.80Re0.20Sr2Can−1CunO2n+2+δ (n = 1, 2) by the sealed quartz tube technique. *Journal of Materials Science*, **1998**, 33, 5359-5363	4.3	6
208	Multidirectional in-plane linear correlated disorder pinning of vortices in YBa2Cu3O7. *Superconductor Science and Technology*, **2008**, 21, 025002	3.1	6
207	Superconductivity in the system CaLaBaCu3−x(PO4)xO7−δ with X=0.1, 0.3, 0.5. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 605-609	3.9	6
206	Ironless armature for high speed HTS disk shaped rotor in self levitating configuration. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1520-1523	1.3	6
205	Correlation between the formation of growth bands and Nd210 addition in Nd/sub 1/Ba/sub 2/Cu/sub 3/O/sub 7-/spl delta// bulk samples. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 3169-3172	1.8	6
204	Effect of strain on grain and grain-boundary critical currents of YBCO coated conductors. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2790-2793	1.8	6
203	Melt growth and microstructure development of high critical current REBa2Cu3O7superconductors with a natural mixture of rare earths. *Superconductor Science and Technology*, **2002**, 15, 60-66	3.1	6
202	The Re-doped high Tc superconductor HgBa2Ca2Cu3Ox: Magnetic irreversibility versus anisotropy. *Journal of Applied Physics*, **1998**, 83, 7309-7311	2.5	6
201	Magnetic ordering and spin reorientations in Nd1.8Sr0.2NiO3.72. *Physical Review B*, **1994**, 49, 9138-9149	3.3	6
200	Chemical pressure effects on the optimization of TC in T? electron doped superconducting cuprates. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 789-790	1.3	6
199	Ba2Fe10Sn2CoO22: Growth, crystal structure (120 K), and magnetic properties. *Journal of Solid State Chemistry*, **1991**, 92, 213-218	3.3	6
198	Crystal structure and spin-glass behaviour in R-type BaFe4−xSn2+xCoxO11 (x = 1.1) hexagonal ferrite. *Solid State Communications*, **1992**, 83, 649-654	1.6	6
197	CEMs and Faraday rotation study of α-Fe<inf>2</inf>O<inf>3</inf>-Fe<inf>3</inf>O<inf>4</inf>films obtained by a new pyrolisis technique. *IEEE Transactions on Magnetics*, **1987**, 23, 74-76	2	6
196	Combinatorial Screening of Cuprate Superconductors by Drop-On-Demand Inkjet Printing. *ACS Applied Materials & Interfaces*, **2021**, 13, 9101-9112	9.5	6
195	Paramagnetic moments in YBa2Cu3O7−δ nanocomposite films. *Physica C: Superconductivity and Its Applications*, **2014**, 503, 175-177	1.3	5
194	Magnetic vortex evolution in self-assembled La0.7Sr0.3MnO3 nanoislands under in-plane magnetic field. *APL Materials*, **2014**, 2, 076111	5.7	5
193	Fluctuation conductivity along the c -axis and parallel to the ab -planes in melt-textured YBa 2 Cu 3 O 7−δ samples doped with Y211 phase. *Physica B: Condensed Matter*, **2009**, 404, 3106-3108	2.8	5

192	Detection of Current Distribution in Bulk Samples With Artificial Defects From Inversion of Hall Magnetic Maps. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 3553-3556	1.8	5
191	Vortex oscillations in TFA-grown YBCO thin-films with BZO nanoparticles. *Physica C: Superconductivity and Its Applications*, **2010**, 470, 2033-2039	1.3	5
190	Growth rate dependence of the critical currents in directionally solidified YBa2Cu3O7?Y2BaCuO5 superconducting bars. *Physica C: Superconductivity and Its Applications*, **1997**, 290, 161-169	1.3	5
189	Critical currents in air processed NdBa2Cu3O7 melt-textured superconductors. *Applied Superconductivity*, **1998**, 6, 119-127		5
188	Vortex liquid in YBa2Cu3O7:Y2BaCuO5. *Physica C: Superconductivity and Its Applications*, **1998**, 296, 96-102	1.3	5
187	AC Three-Phase Axial Flux Motor With Magnetized Superconductors. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 1633-1636	1.8	5
186	Iron-YBCO heterostructures and their application for trapped field superconducting motor. *Journal of Physics: Conference Series*, **2006**, 43, 788-791	0.3	5
185	Identification of Nd163 phase in melt-textured NdBa2Cu3O7−δ bulk samples. *Journal of Materials Research*, **2003**, 18, 2050-2054	2.5	5
184	Combined synchrotron x-ray diffraction and micro-Raman for following in situ the growth of solution-deposited YBa2Cu3O7 thin films. *Journal of Materials Research*, **2005**, 20, 3270-3273	2.5	5
183	Mechanical fragility and tri-dimensional crack structure in NdBaCuO top seeded and multi-seeded melt-textured samples. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 3137-3140	1.8	5
182	Dislocations engineering in melt textured oxide superconductors. *Radiation Effects and Defects in Solids*, **2002**, 157, 871-880	0.9	5
181	The metamagnetic and the weak ferromagnetic transitions of the Cu lattice of Ho2CuO4. *Journal of Applied Physics*, **1995**, 78, 4608-4614	2.5	5
180	Plastic deformation in high critical current melt-textured YBa2Cu3O7. *Journal of Applied Physics*, **1996**, 80, 5515-5517	2.5	5
179	Transport and magnetic properties of polycrystalline Nd1.85Ce0.15CuO4−y under applied magnetic fields. *Journal of Applied Physics*, **1993**, 73, 6639-6641	2.5	5
178	Vortex fluctuations effects in the 2D system YBa2Cu3O6.6. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2623-2624	1.3	5
177	Diamagnetism and electrical connectivity in an inhomogeneous Ba2YCu3O7−x superconductor. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 389-390	1.3	5
176	An investigation of the spin glass behaviour in iron antimonate by iron-57 and antimony-121 Mössbauer spectroscopy. *Hyperfine Interactions*, **1988**, 41, 463-466	0.8	5
175	Mössbauer emission study of57Co: YBa2Cu3O7−y HTSC. *European Physical Journal B*, **1988**, 73, 143-148	1.2	5

174	Defect landscape and electrical properties in solution-derived LaNiO3 and NdNiO3 epitaxial thin films. *Physical Review Materials*, **2018**, 2,	3.2	5
173	Ultra-high critical current densities of superconducting YBaCuO thin films in the overdoped state. *Scientific Reports*, **2021**, 11, 8176	4.9	5
172	Pyrolysis study of solution-derived superconducting YBa2Cu3O7 films: disentangling the physico-chemical transformations. *Journal of Materials Chemistry C*, **2020**, 8, 10266-10282	7.1	4
171	Angular flux creep contributions in YBaCuO nanocomposites from electrical transport measurements. *Scientific Reports*, **2018**, 8, 5924	4.9	4
170	Strain Relaxation of Self-Nanostructured Solution Derived La0.7Sr0.3MnO3 Films. *Materials Research Society Symposia Proceedings*, **2009**, 1174, 1		4
169	Metallic state induced in Eu2Ru2O7 by hole creation and orbital overlap in the t2g bands. *Journal of Applied Physics*, **2012**, 111, 07E150	2.5	4
168	Tuning the superconducting properties of YBa2Cu3O7 tapes grown by chemical methods. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 1401-1404	1.3	4
167	Magnetic properties of a melt-textured YBa2Cu3Ox ring with a perpendicular crack. *Applied Physics Letters*, **2007**, 90, 072501	3.4	4
166	Growth mechanism of Ag-foil-based artificially superconducting joints of YBa2Cu3O7 monoliths. *Journal of Materials Research*, **2006**, 21, 2534-2541	2.5	4
165	Characterisation of YBa2Cu3O6+x films grown by the trifluoro-acetate metal organic decomposition route by infrared spectroscopy. *Thin Solid Films*, **2006**, 515, 1607-1611	2.2	4
164	Chemical solution growth of superconductors: a new path towards high critical current coated conductors. *Physica C: Superconductivity and Its Applications*, **2004**, 408-410, 913-914	1.3	4
163	Subboundary mesostructures and variable dislocation networks in single domain melt textured YBa2Cu3O7−δ implications on critical currents. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1204-1207	1.3	4
162	Growth related microstructure of Bridgman grown YBa2Cu3O7/Y2BaCuO5single-grain bars. *Superconductor Science and Technology*, **2002**, 15, 1385-1391	3.1	4
161	Anisotropy of the thermal conductivity of melt-textured Y123/Y211 composites. *Physica B: Condensed Matter*, **2000**, 284-288, 1015-1016	2.8	4
160	Paramagnetic meissner effect in melt-textured YBa2Cu3O7−δ *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 1377-1378	1.3	4
159	Flux trapping and levitation forces in directionally solidified superconducting YBa2Cu3O7 ingots. *Journal of Applied Physics*, **1996**, 79, 6596	2.5	4
158	Magnetic order and disorder in YBa2(Cu1-xFex)3O6+y. *Physica C: Superconductivity and Its Applications*, **1994**, 233, 85-96	1.3	4
157	Stoichiometry and superconductivity in the Ln2−xCexCuO4−δ system. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 791-792	1.3	4

156	Low-temperature dynamics of bipyramidal ions in SrFe12O19. *Journal of Physics Condensed Matter*, **1991**, 3, 2131-2136	1.8	4
155	Oxygen vacancy ordering in La2−xSrxNiO4−δ. *Physica B: Condensed Matter*, **1992**, 180-181, 399-401	2.8	4
154	Topological excitations vs intergranular phase coherence in a HTSC Y0.5Sm0.5Ba2Cu3O7 ceramics. *European Physical Journal B*, **1992**, 87, 21-28	1.2	4
153	Anisotropic magnetization and weak links in melt textured YBa2Cu3O7. *Cryogenics*, **1993**, 33, 39-45	1.8	4
152	Y-Sm twinned and untwinned high temperature superconductors: a comparative study. *Cryogenics*, **1989**, 29, 350-354	1.8	4
151	Critical currents and relaxation effects in Nd2−xCexCuO4−y single crystals. *Cryogenics*, **1990**, 30, 656-659	1.8	4
150	Spin glass-type behavior in iron antimonate: The identification of unusual phenomena at low temperatures in low magnetic fields. *Journal of Solid State Chemistry*, **1990**, 87, 237-240	3.3	4
149	Ultrasound study on Nd1.85Ce0.15CuO4−y single crystals. *Solid State Communications*, **1990**, 76, 1257-1259	1.6	4
148	Transport and magnetic properties versus hole doping in (La,Nd)2NiO4+δ. *Journal of the Less Common Metals*, **1990**, 164-165, 853-861		4
147	Electron microscopy, neutron diffraction, and physical properties of bismuth strontium copper oxide (Bi4Sr8Cu5O19+y). *Chemistry of Materials*, **1991**, 3, 844-852	9.6	4
146	Hyperfine fields and exchange interactions in BaLiFe17O27 W-type hexagonal ferrite. *Hyperfine Interactions*, **1986**, 28, 565-568	0.8	4
145	Structural, electrical and magnetic properties of Ba2ReCu3-xFexO7−δ (Re=Y,Ho) high Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 888-889	1.3	4
144	Spin-glass behavior in mixed metal oxides with a rutile-type structure. *Journal of Applied Physics*, **1988**, 63, 4337-4339	2.5	4
143	Mössbauer emission spectroscopy of doped 57Co1−xO. donor impurities: 57Co1−xO:Fe, Ti, In. *Journal of Physics and Chemistry of Solids*, **1985**, 46, 305-308	3.9	4
142	Using evolved gas analysis–mass spectrometry to characterize adsorption on a nanoparticle surface. *Nanoscale Advances*, **2019**, 1, 2740-2747	5.1	3
141	Magnetic irreversibility: An important amendment in the zero-field-cooling and field-cooling method. *Japanese Journal of Applied Physics*, **2016**, 55, 023101	1.4	3
140	Effect of triethanolamine on the pyrolysis of metal-propionate-based solutions. *Journal of Analytical and Applied Pyrolysis*, **2019**, 143, 104685	6	3
139	Functional oxide nanostructures written by EBL on insulating single crystal substrates. *Microelectronic Engineering*, **2013**, 110, 94-99	2.5	3

138	Inkjet-Printed Chemical Solution Y2O3 Layers for Planarization of Technical Substrates. *Coatings*, **2017**, 7, 227	2.9	3
137	Epitaxial BaZrO3 tracks by electrospinning of metalorganic fibers on single crystals. *CrystEngComm*, **2012**, 14, 4686	3.3	3
136	Anomalous electronic and magnetic properties of the Eu2Ru2O7 pyrochlore. *Journal of Applied Physics*, **2013**, 113, 17E102	2.5	3
135	Integrating UHV (Ultra High Vacuum) and HTS (High Temperature Superconducting) magnets for x-ray synchrotron based experiments. *Journal of Physics: Conference Series*, **2013**, 425, 102003	0.3	3
134	Interface structure governed by plastic and structural dissimilarity in perovskite La0.7Sr0.3MnO3 nanodots on rock-salt MgO substrates. *Applied Physics Letters*, **2012**, 100, 083104	3.4	3
133	Computation of critical current in artificially structurated bulk samples from Hall measurements. *Journal of Physics: Conference Series*, **2008**, 97, 012107	0.3	3
132	Ac susceptibility of bicrystal-like type-II superconducting films. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 787-788	1.3	3
131	Preparation of anhydrous TFA solution for deposition of YBa2Cu3O7-xthin films. *Journal of Physics: Conference Series*, **2006**, 43, 178-181	0.3	3
130	Magnetic granularity analysis of YBCO coated conductors. *Physica C: Superconductivity and Its Applications*, **2004**, 408-410, 866-868	1.3	3
129	Growth and characterization of YBa2(Cu1−xAx)3O7−δ(A=Mg, Zn, Ni) bars as switching elements for fault current limiters. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1622-1625	1.3	3
128	Vortex pinning by a novel stress induced stacking fault microstructure in melt-textured YBa2Cu3O7. *Superconductor Science and Technology*, **2005**, 18, S184-S187	3.1	3
127	Quantitative analysis of Y2BaCuO5particle distribution in a melt-grown YBa2Cu3O7/Y2BaCuO5bulk superconductor. *Superconductor Science and Technology*, **2005**, 18, 948-952	3.1	3
126	A novel thermobaric analyser:in situmeasurement of gas pressure during synthesis in sealed quartz tube at high temperatures. *Superconductor Science and Technology*, **2000**, 13, 1549-1552	3.1	3
125	Processing and superconducting properties of Hg1-xRexBa2Ca2Cu3O8+delta. *Superconductor Science and Technology*, **1999**, 12, 1175-1178	3.1	3
124	Magnetic surface anisotropy and magnetoresistance in polycrystalline manganese perovskites. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 100-101	2.8	3
123	Pinning mechanisms in directionally solidified YBa2Cu3O7: Influence of Y2BaCuO5 concentration. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 3007-3008	1.3	3
122	Weak ferromagnetism in Gd2CuO4 and Gd2−xRxCuO4−δ(R = Ce, Sr).. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 1569-1570	1.3	3
121	Two dimensional superconductivity in Sm2−xCexCuO4−δEvidence from microwave absorption. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2027-2028	1.3	3

120	High frequency diamagnetic screening in EuBa2Cu3O7 ceramics. *Physica C: Superconductivity and Its Applications*, **1991**, 184, 34-40	1.3	3
119	High frequency intergranular AC losses in EuBa2Cu3O7ceramics. *Superconductor Science and Technology*, **1992**, 5, S268-S271	3.1	3
118	Spin reorientations in Nd1.8Sr0.2NiO3.8. *Physica B: Condensed Matter*, **1992**, 180-181, 402-404	2.8	3
117	Study of the magnetic properties of Nd2NiO4. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 918-920	2.8	3
116	AC susceptibility in weak ferromagnetic R2CuO4 cuprates. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 549-550	2.8	3
115	Magnetism in the rare-earth cuprates R2Cu2O5 (R = Y, Ho, Er, Yb, Tm). *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 617-618	2.8	3
114	Dilution effects in the strongly frustrated system SrGa12−xCrxO9. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 1645-1646	2.8	3
113	Electron spin resonance of La2−xSrxNiO4+δ. *Physica B: Condensed Matter*, **1993**, 190, 177-182	2.8	3
112	Influence of Sb and Pb substitution on the physical properties of the BiSrCaCuO compounds. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 863-864	1.3	3
111	On inhomogeneous superconductivity in Fe substituted YBa 2 Cu 3 O 7-δ. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 41-42	1.3	3
110	Low temperature magnetization of antiferromagnetic YBa2Cu3O6. *Journal of Magnetism and Magnetic Materials*, **1990**, 83, 517-518	2.8	3
109	Influence of strontium vacancies on the superconductivity of Bi2Sr2 − xLaxCuO6 + y. *Journal of the Less Common Metals*, **1990**, 164-165, 604-611		3
108	Spin glass behavior of FeSbO4studied by Mössbauer spectroscopy and magnetometry. *IEEE Transactions on Magnetics*, **1987**, 23, 2311-2313	2	3
107	Mössbauer emission spectroscopy of doped 57Co1−xO. Acceptor impurities: 57Co1−xO:Li. *Journal of Physics and Chemistry of Solids*, **1985**, 46, 301-304	3.9	3
106	BaFe12O19 SMALL PARTICLES : FORMATION. PARTICLE SIZE AND MAGNETIC PROPERTIES. *Journal De Physique Colloque*, **1988**, 49, C8-1849-C8-1850		3
105	MAGNETIC PHASE DIAGRAM IN THE FERRIMAGNETIC SPIN GLASS SYSTEM SrCr8Fe4-xGaxO19. *Journal De Physique Colloque*, **1988**, 49, C8-1119-C8-1120		3
104	Faceted-Charge Patchy LnF Nanocrystals with a Selective Solvent Interaction. *Angewandte Chemie - International Edition*, **2018**, 57, 14747-14751	16.4	3
103	Embedded Magnetism in YBa2Cu3O7 Associated with CuO Vacancies within Nanoscale Intergrowths: Implications for Superconducting Current Performance. *ACS Applied Nano Materials*, **2020**, 3, 3050-3059	5.6	2

102	Suppression of superconductivity at the nanoscale in chemical solution derived YBa2Cu3O7 thin films with defective Y2Ba4Cu8O16 intergrowths. *Nanoscale Advances*, **2020**, 2, 3384-3393	5.1	2
101	Composite films combining electrospun fiber network and epitaxial oxide by chemical solution deposition. *Journal of Sol-Gel Science and Technology*, **2016**, 80, 277-284	2.3	2
100	Vortex energy landscape from real space imaging analysis of YBa2Cu3O7 with different defect structures. *Physica C: Superconductivity and Its Applications*, **2014**, 505, 47-54	1.3	2
99	Vortex Dynamics in Nanostructured TFA-Grown YBCO Films Studied by Ac Susceptibility. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 3189-3191	1.8	2
98	Reduced twinning efficiency and tri-dimensional crack structure in melt-textured NdBa2Cu3O7 bulk samples fragmentation process. *Superconductor Science and Technology*, **2012**, 25, 125017	3.1	2
97	Fabrication and microstructural control of high current ReBa/sub 2/Cu/sub 3/O/sub 7/ current leads (Re=Y, Nd, Sm). *IEEE Transactions on Applied Superconductivity*, **1997**, 7, 1743-1746	1.8	2
96	Influence of crystal plane on the welding quality of YBCO bulk superconductor. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 151, 107-110	3.1	2
95	Imaging Current Percolation and Ac Losses in Artificially Granular YBCO Thin Films. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3223-3226	1.8	2
94	Analysis of the Possible Influence of Crystallographic Shear Planes on Magnetic and Superconducting Behavior in ${rm RuSr}_{2}{rm EuCu}_{2}{rm O}_{8}$. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 2973-2975	1.8	2
93	High J/sub c/ YBCO thin films and multilayers grown by chemical solution deposition. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2747-2750	1.8	2
92	Obtention and characterization of YBCO/Ag/YBCO welds at different misorientation angles. *Journal of Physics: Conference Series*, **2006**, 43, 401-404	0.3	2
91	Use of polymeric compounds to produce thick YBCO films by TFA-MOD process. *Journal of Physics: Conference Series*, **2006**, 43, 182-186	0.3	2
90	Fast calcination of purified Trifluoroacetate metal-organic precursors for high critical current YBa2Cu3O7thin films. *Journal of Physics: Conference Series*, **2006**, 43, 150-153	0.3	2
89	New transition in the vortex liquid state of YBa2Cu3O7 *Physica C: Superconductivity and Its Applications*, **2006**, 437-438, 176-179	1.3	2
88	Superconductivity in the system [Y0.8Ca0.2](SrBa)Cu3 (BO3)xO7 with 0.1 0.5. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 594-596	3.9	2
87	In-field magnetic Hall probe microscopy studies of YBa2Cu3O7 based superconductors. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 403-406	3.9	2
86	Directional solidification of YBaCuO thick films deposited by screen printing on Ag and Ag Pd tapes. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 738-741	1.3	2
85	Influence of the Sr content on the synthesis of Hg0.8Re0.2Ba2-xSrxCa2Cu3O8+ t normal pressures. *Superconductor Science and Technology*, **2001**, 14, 981-986	3.1	2

84	Anisotropy of the low-field critical point of the melting line of twinned YBa2Cu3O7 single crystals. *Physical Review B*, **2002**, 65,	3.3	2
83	Low Temperature Magnetic Behaviour of Fe2O3 Nanoparticles. *Materials Science Forum*, **1998**, 269-272, 883-888	0.4	2
82	Transport and magnetic properties of Tl2Mn2RuxO7 diluted system. *Journal of Applied Physics*, **1999**, 85, 5405-5407	2.5	2
81	Semiconductor metal transition, thermoelectric power and giant magneto resistance of the double Mn perovskite-La1.5Ca1.5Mn2O7. *Physica B: Condensed Matter*, **1999**, 259-261, 837-838	2.8	2
80	Solubility Limit and Anisotropy Analysis of Mg Doping in Melt Textured YBa2(Cu1 Mg x)3O7 *Journal of Low Temperature Physics*, **1999**, 117, 873-877	1.3	2
79	Structural instability vs. bandwidth-controlled charge ordering in x = manganites. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 549-551	2.8	2
78	. *IEEE Transactions on Applied Superconductivity*, **1995**, 5, 1611-1614	1.8	2
77	Oxygen stoichiometry variations, control of copper oxide content and superconducting behaviour of ceramics. *Superconductor Science and Technology*, **1996**, 9, 805-813	3.1	2
76	Pinning mechanisms in ortho-II YBa2Cu3O6.6 melt-textured samples. *European Physical Journal D*, **1996**, 46, 1675-1676		2
75	Competition between copper and rare earth magnetic sublattices in Ho2Cu2O5 and Yb2Cu2O5. *Physica B: Condensed Matter*, **1994**, 194-196, 277-278	2.8	2
74	Superconductivity and magnetic order in super-oxygenated La2MCu2O6+(M=Ca,Sr). *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1213-1214	1.3	2
73	Irreversibility line and critical currents in a Pr2-xCexCuO4single crystal. *Superconductor Science and Technology*, **1992**, 5, S264-S267	3.1	2
72	Evidence for a kosterlitz-thouless transition in high quality YBaCuO ceramics. *Journal of the Less Common Metals*, **1990**, 164-165, 160-165		2
71	Mssbauer emission studies of 57Co-doped ZnO, Cu2O, and TiCoO3. *Physica Status Solidi (B): Basic Research*, **1986**, 134, 297-302	1.3	2
70	. *IEEE Transactions on Magnetics*, **1988**, 24, 1694-1696	2	2
69	HIGH FIELD MAGNETIZATION STUDY OF SODIUM-ZINC SPINEL FERRITES. *Journal De Physique Colloque*, **1985**, 46, C6-445-C6-448		2
68	Hybrid approach to obtain high-quality BaMO perovskite nanocrystals.. *RSC Advances*, **2020**, 10, 28872-28878	3.7	2
67	Thermoelectric stack sample cooling modification of a commercial atomic force microscopy. *Ultramicroscopy*, **2019**, 196, 186-191	3.1	2

66	Low-Fluorine Ba-Deficient Solutions for High-Performance Superconducting YBCO Films. *Coatings*, **2021**, 11, 199	2.9	2
65	High Performance of Superconducting YBa2Cu3O7 Thick Films Prepared by Single-Deposition Inkjet Printing. *ACS Applied Electronic Materials*, **2021**, 3, 3948-3961	4	2
64	Preparation of YBCO-BYTO and YBCO-BZO nanostructured superconducting films by chemical method. *Journal of Physics: Conference Series*, **2017**, 786, 012017	0.3	1
63	Chemical solution growth of La0.7Sr0.3MnO3 nanotubes in confined geometries. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 620-627	2.3	1
62	High-field paramagnetic Meissner effect up to 14 T in melt-textured YBa 2 Cu 3 O 7 □ *Physica C: Superconductivity and Its Applications*, **2016**, 525-526, 105-110	1.3	1
61	Axiotaxy in oxide heterostructures: Preferential orientation of BaCeO3 nanoparticles embedded in superconducting YBa2Cu3O7□thin films. *Thin Solid Films*, **2017**, 638, 105-113	2.2	1
60	Development of YBa2Cu3O7-Ba2YTaO6nanocomposites by chemical solution deposition. *Journal of Physics: Conference Series*, **2014**, 568, 022015	0.3	1
59	Fluctuation conductivity in melt-textured YBaCuO samples under low magnetic fields. *Journal of Physics: Conference Series*, **2010**, 200, 012027	0.3	1
58	Two examples of efficient superconducting cable applications. *Journal of Physics: Conference Series*, **2010**, 234, 032049	0.3	1
57	AC susceptibility of half□alf jointed melt-textured YBCO rings. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 770-771	1.3	1
56	Computation limits of Current Distribution in thick Superconducting Bulks from Magnetic Field Measurements. *Journal of Physics: Conference Series*, **2006**, 43, 518-521	0.3	1
55	Nucleation Mechanism OF YBa2Cu3O7by CSD using TFA Precursors. *Journal of Physics: Conference Series*, **2006**, 43, 321-324	0.3	1
54	Oscillation of Y2BaCuO5 particle concentration in the melt-grown YBaCuO bulk superconductors. *Journal of Crystal Growth*, **2004**, 270, 685-690	1.6	1
53	Influence of the mercury source on the synthesis of Hg0.8Re0.2Ba2□SryCa2Cu3O8+□at normal pressures. *Physica C: Superconductivity and Its Applications*, **2004**, 403, 132-138	1.3	1
52	Competition effects between random quenched and linearly correlated disorders in MTG-YBCO. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 2301-2304	1.3	1
51	Magnetic Surface Anisotropy and Low-Temperature Magnetoresistance in Manganese Perovskites. *Materials Science Forum*, **1998**, 269-272, 889-894	0.4	1
50	Hexaferrite-Magnetite Nanocomposite Permanent Magnets Produced by Mechanical Alloying. *Materials Science Forum*, **1998**, 269-272, 943-948	0.4	1
49	New Substituted Pyrochlore-Type Manganates with Magnetoresistive Properties. *Materials Research Society Symposia Proceedings*, **1998**, 547, 27		1

48	High pressure oxygenation in melt textured NdBa/sub 2/Cu/sub 3/O/sub 7/: identification of pinning mechanisms. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2054-2057	1.8	1
47	Direct identification of extended defects as vortex pinning centers in melt textured YBa/sub 2/Cu/sub 3/O/sub 7/-Y/sub 2/BaCuO/sub 5/ composites. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2663-2666	1.8	1
46	Charge localization and magnetic dynamics in manganites. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 477-478	2.8	1
45	Vortex liquid in melt textured YBa2Cu3O7/Y2BaCuO5. *European Physical Journal D*, **1996**, 46, 1579-1580		1
44	. *IEEE Transactions on Applied Superconductivity*, **1993**, 3, 1632-1635	1.8	1
43	Josephson decoupling in Nd1.85Ce0.15CuO4 revisited. *Physical Review Letters*, **1994**, 73, 3327	7.4	1
42	Magnetic field dependent microwave absorption in a Sm2−CexCuO4 Single crystal. *Physica B: Condensed Matter*, **1994**, 194-196, 1585-1586	2.8	1
41	Magnetic field induced superconducting fluctuations in L2−CexCuO4− single crystals. *Physica B: Condensed Matter*, **1994**, 194-196, 2253-2254	2.8	1
40	The electron-doped cuprates: superconducting properties and pressure effects. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 142-145	1.3	1
39	Spin glass-like behavior in Fe-doped Bi4Sr8Cu5O19+x insulating perovskite. *Journal of Applied Physics*, **1991**, 70, 6184-6186	2.5	1
38	Electron microscopy, electrical resistivity and magnetic properties of the new tubular phase Bi 4 Sr 8 Cu 5 O 19+x. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 865-866	1.3	1
37	57Co doped oxides as57Fe Mössbauer single line sources. *Hyperfine Interactions*, **1986**, 29, 1221-1224	0.8	1
36	Particle orientation distribution in -Fe2O3magnetic tapes by Mössbauer and hysteresis loop measurements. *IEEE Transactions on Magnetics*, **1987**, 23, 2812-2814	2	1
35	Mössbauer studies of amorphous FeSi compositionally modulated thin films. *IEEE Transactions on Magnetics*, **1987**, 23, 3581-3583	2	1
34	TEM for Characterization of Nanocomposite Oxide Thin Films: A Case Study on Solution-Derived Lanthanum Strontium Manganites **2014**, 537-575		1
33	High critical current nanocomposite REBa2Cu3O7 (RE = rare earth) tapes: towards a new era of ultra-high field magnetism. *Superconductor Science and Technology*, **2018**, 31, 110501	3.1	1
32	Faceted-Charge Patchy LnF3 Nanocrystals with a Selective Solvent Interaction. *Angewandte Chemie*, **2018**, 130, 14963-14967	3.6	1
31	Normal zone propagation in various REBCO tape architectures. *Superconductor Science and Technology*, **2022**, 35, 055009	3.1	1

30	Functional behavior of the anomalous magnetic relaxation observed in melt-textured YBa2Cu3O7-δ samples showing the paramagnetic Meissner effect. *Physica C: Superconductivity and Its Applications*, **2016**, 529, 44-49	1.3	0
29	Ruthenium-europium configuration in the Eu2Ru2O7 pyrochlore. *Journal of Applied Physics*, **2015**, 117, 17C702	2.5	0
28	Simulation of dc magnetic effects due to geometrically defined grain boundaries in type-II superconductors. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 492-497	1.3	0
27	Magnetic irreversibility and zero resistance in melt-textured YBaCuO. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, e481-e483	2.8	0
26	Current Distribution in Wide YBCO Tapes. *Physics Procedia*, **2012**, 36, 1625-1630		
25	Magnetic properties of geometrically frustrated systems **1997**, 414-425		
24	Shaping of YBa2Cu3O7-Y2BaCuO5 bulk super-conducting composites. *Journal of the European Ceramic Society*, **1997**, 17, 393-396	6	
23	Design of a multidisk axially excited low power class superconducting motor for industrial application. *Journal of Physics: Conference Series*, **2008**, 97, 012125	0.3	
22	New Microcrack Network Generation in TSMTG YBCO. *Journal of Physics: Conference Series*, **2006**, 43, 397-400	0.3	
21	Faceting of (001) CeO2Films: The Road to High Quality TFA-YBa2Cu3O7Multilayers. *Journal of Physics: Conference Series*, **2006**, 43, 138-141	0.3	
20	High-field paramagnetic Meissner effect in melt-textured YBCO. *Physica C: Superconductivity and Its Applications*, **2004**, 408-410, 653-654	1.3	
19	Anisotropic behaviour of the melting line and the low critical field in YBCO. *Physica C: Superconductivity and Its Applications*, **2002**, 369, 209-212	1.3	
18	Synthesis and densification of Hg(Re)-1223 superconductors. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1171-1173	1.3	
17	Analytical and structural transmiission electron microscopy study of normal- superconductor interfaces in melt-textured Nd1+xBa2−xCu3Oy. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 1973-1976	1.3	
16	Engineering stacking fault configurations for high critical current melt textured YBa2Cu3O7. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 1983-1984	1.3	
15	Surface and interfacial effects in ceramic manganites. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 479-480	2.8	
14	Giant magnetoresistance in ceramic perovskites La?L?Ca?MnO (L = Y,Gd). *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 260-261	2.8	
13	Nanostructuration of Pinning Centers in Directionally Solidified YBa2Cu3O7-Y2BaCuO5 Composites. *Materials Science Forum*, **1996**, 235-238, 973-978	0.4	

12	Elastic flux creep in the mixed state of superconducting L2□CexCuO4 single crystals. *Physica B: Condensed Matter*, **1994**, 194-196, 1831-1832	2.8
11	Oxygenation and aging processes in melt textured YBa2Cu3O7-□*Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 3045-3046	1.3
10	Metal-insulator transition in Bi2Sr1.6□La0.4CuO6+□induced by cation vacancies. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1307-1308	1.3
9	Electron spin resonance in the spin-glass-like system Fe1□GaxSbO4. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 1649-1651	2.8
8	Fluctuations and critical fields in (Y Sm) HTSC. *Physica C: Superconductivity and Its Applications*, **1989** , 162-164, 723-724	1.3
7	Critical fields in Ba2SmCu3O7□ high Tc superconductor from magnetization measurements. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1503-1504	1.3
6	M□sbauer emission studies of LiNb03:57Co. *Radiation Effects*, **1983**, 73, 173-177	
5	Synthesis of sodium-zinc spinel ferrites. *IEEE Transactions on Magnetics*, **1984**, 20, 1515-1517	2
4	Volume Resistive Switching in Metallic Perovskite Oxides Driven by the Metal-Insulator Transition. *Kluwer International Series in Electronic Materials: Science and Technology*, **2022**, 289-310	
3	Magnetoresistance at Interfaces in Submicrometric Manganese Perovskites Ceramics **1999**, 105-118	
2	Towards an all Chemical Solution Coated Conductor. *Ceramic Transactions*,67-76	0.1
1	Chemical Solution Deposition of Insulating Yttria Nanolayers as Current Flow Diverter in Superconducting GdBaCuO Coated Conductors.. *ACS Omega*, **2022**, 7, 15315-15325	3.9