Josep Fontcuberta

List of Publications by Citations

489 papers	15,709 citations	56 h-index	108 g-index
501 ext. papers	16,869 ext. citations	3.9 avg, IF	6.41 L-index

#	Paper	IF	Citations
489	Colossal magnetoresistance. *Journal of Physics Condensed Matter*, **1997**, 9, 8171-8199	1.8	1326
488	Tunnel junctions with multiferroic barriers. *Nature Materials*, **2007**, 6, 296-302	27	878
487	Colossal magnetoresistance of ferromagnetic manganites: Structural tuning and mechanisms. *Physical Review Letters*, **1996**, 76, 1122-1125	7.4	467
486	Room-temperature antiferromagnetic memory resistor. *Nature Materials*, **2014**, 13, 367-74	27	435
485	Cationic ordering control of magnetization in Sr2FeMoO6 double perovskite. *Applied Physics Letters* , **2001**, 78, 781-783	3.4	351
484	High-field magnetoresistance at interfaces in manganese perovskites. *Physical Review B*, **1998**, 58, R14697-R14700	3.3	297
483	NiFe2O4: A Versatile Spinel Material Brings New Opportunities for Spintronics. *Advanced Materials*, **2006**, 18, 1733-1736	24	280
482	Electric-field control of exchange bias in multiferroic epitaxial heterostructures. *Physical Review Letters*, **2006**, 97, 227201	7.4	276
481	Enhanced field sensitivity close to percolation in magnetoresistive La2/3Sr1/3MnO3/CeO2 composites. *Applied Physics Letters*, **1999**, 74, 4014-4016	3.4	229
480	Nanoscale multiphase separation at La(2/3)Ca(1/3)MnO3/SrTiO3 interfaces. *Physical Review Letters*, **2001**, 87, 067210	7.4	225
479	Raising the Curie temperature in Sr2FeMoO6 double perovskites by electron doping. *Physical Review B*, **2001**, 64,	3.3	223
478	Surface symmetry-breaking and strain effects on orbital occupancy in transition metal perovskite epitaxial films. *Nature Communications*, **2012**, 3, 1189	17.4	220
477	The 2016 oxide electronic materials and oxide interfaces roadmap. *Journal Physics D: Applied Physics*, **2016**, 49, 433001	3	204
476	Spin filtering through ferromagnetic BiMnO3 tunnel barriers. *Physical Review B*, **2005**, 72,	3.3	178
475	Towards Oxide Electronics: a Roadmap. *Applied Surface Science*, **2019**, 482, 1-93	6.7	160
474	Spin filtering through ferrimagnetic NiFe2O4 tunnel barriers. *Applied Physics Letters*, **2006**, 88, 082505	3.4	157
473	Electric control of magnetism at the Fe/BaTiO□ interface. *Nature Communications*, **2014**, 5, 3404	17.4	154

472	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
471	Charge trapping in optimally doped epitaxial manganite thin films. *Physical Review B*, **2002**, 66,	3.3	145
470	High mobility conduction at (110) and (111) LaAlO3/SrTiO3 interfaces. *Scientific Reports*, **2012**, 2, 758	4.9	144
469	Enhanced critical currents by CeO2 additions in directionally solidified YBa2Cu3O7. *Applied Physics Letters*, **1994**, 65, 1448-1450	3.4	135
468	Multiferroic iron oxide thin films at room temperature. *Advanced Materials*, **2014**, 26, 4645-52	24	134
467	Antisites and electron-doping effects on the magnetic transition of Sr2FeMoO6 double perovskite. *Physical Review B*, **2003**, 67,	3.3	127
466	Enhanced magnetic moment and conductive behavior in NiFe2O4 spinel ultrathin films. *Physical Review B*, **2005**, 71,	3.3	126
465	Pressure effects on the metal-insulator transition in magnetoresistive manganese perovskites. *Physical Review B*, **1997**, 56, R10009-R10012	3.3	123
464	Critical currents and pinning mechanisms in directionally solidified YBa2Cu3O7-Y2BaCuO5 composites. *Physical Review B*, **1996**, 53, 2797-2810	3.3	123
463	Magnetization reversal by electric-field decoupling of magnetic and ferroelectric domain walls in multiferroic-based heterostructures. *Physical Review Letters*, **2011**, 106, 057206	7.4	117
462	Engineering two-dimensional superconductivity and Rashba spin-orbit coupling in LaAlO₃/SrTiO₃ quantum wells by selective orbital occupancy. *Nature Communications*, **2015**, 6, 6028	17.4	102
461	Anisotropic magnetoresistance in an antiferromagnetic semiconductor. *Nature Communications*, **2014**, 5, 4671	17.4	101
460	Oxygen-induced grain boundary effects on magnetotransport properties of Sr2FeMoO6+δ *Physical Review B*, **2001**, 64,	3.3	95
459	Antisite defects and magnetoresistance in Sr2FeMoO6double perovskite. *Journal of Physics Condensed Matter*, **2001**, 13, 8481-8488	1.8	94
458	Spin Hall magnetoresistance at Pt/CoFe2O4 interfaces and texture effects. *Applied Physics Letters*, **2014**, 105, 142402	3.4	91
457	Reversible ferromagnetic switching in ZnO:(Co, Mn) powders. *Physical Review B*, **2007**, 75,	3.3	90
456	Metallic state and the metal-insulator transition of NdNiO3. *Physical Review B*, **1993**, 48, 11666-11672	3.3	88
455	Elastic and orbital effects on thickness-dependent properties of manganite thin films. *Physical Review B*, **2007**, 76,	3.3	87

454	Evidence of strong antiferromagnetic coupling between localized and itinerant electrons in ferromagnetic Sr2FeMoO6. *Physical Review B*, **2002**, 66,	3.3	87
453	Magnetoelectric coupling in Fe2O3 nanoparticles. *Nanotechnology*, **2006**, 17, 687-691	3.4	84
452	Tailored surfaces of perovskite oxide substrates for conducted growth of thin films. *Chemical Society Reviews*, **2014**, 43, 2272-85	58.5	81
451	Selectable spontaneous polarization direction and magnetic anisotropy in BiFeO3-CoFe2O4 epitaxial nanostructures. *ACS Nano*, **2010**, 4, 4955-61	16.7	81
450	Magnetic frustration in mixed valence manganites. *Physical Review B*, **1997**, 55, R668-R671	3.3	75
449	Enhanced electron-electron correlations in nanometric SrRuO3 epitaxial films. *Physical Review B*, **2003**, 67,	3.3	75
448	Nonferroelectric contributions to the hysteresis cycles in manganite thin films: A comparative study of measurement techniques. *Journal of Applied Physics*, **2011**, 109, 074105	2.5	72
447	Effect of band filling and structural distortions on the Curie temperature of Fe-Mo double perovskites. *Physical Review B*, **2003**, 68,	3.3	71
446	Metastable metallic state and hysteresis below the metal-insulator transition in PrNiO3. *Physical Review B*, **1992**, 46, 15683-15688	3.3	70
445	Epitaxial stabilization of Fe2O3 (00l) thin films on SrTiO3 (111). *Applied Physics Letters*, **2010**, 96, 112508	3.4	69
444	Atomically flat SrO-terminated SrTiO3(001) substrate. *Applied Physics Letters*, **2009**, 95, 141915	3.4	69
443	Magnetotransport properties of nanometric La2/3Sr1/3MnO3 granular perovskites. *Journal of Magnetism and Magnetic Materials*, **2000**, 211, 193-199	2.8	66
442	Manganese perovskites: Thick-film based position sensors fabrication. *Applied Physics Letters*, **1996**, 69, 1486-1488	3.4	66
441	The magnetization of epitaxial nanometric CoFe2O4(001) layers. *Journal of Applied Physics*, **2009**, 106, 113924	2.5	65
440	Monitoring B-site ordering and strain relaxation in NiFe2O4 epitaxial films by polarized Raman spectroscopy. *Physical Review B*, **2011**, 83,	3.3	62
439	Bandwidth narrowing in bulk magnetoresistive oxides. *Journal of Physics Condensed Matter*, **1996**, 8, L787-L793	1.8	61
438	Reduction of the Jahn-Teller distortion at the insulator-to-metal transitionin mixed valence manganites. *Physical Review B*, **1997**, 55, 34-37	3.3	61
437	The Poisson Ratio in CoFe2O4 Spinel Thin Films. *Advanced Functional Materials*, **2012**, 22, 4344-4351	15.6	59

436	Oxygen excess and superconductivity at 45 K in La2CaCu2O6+y. *Physica C: Superconductivity and Its Applications*, **1990**, 170, 153-160	1.3	58
435	Crystal growth and phase diagrams for the Nd2O3-CeO2-CuO system. *Physica C: Superconductivity and Its Applications*, **1990**, 165, 265-269	1.3	57
434	Inhomogeneous transport in heteroepitaxial La0.7Ca0.3MnO3/SrTiO3 multilayers. *Applied Physics Letters*, **1999**, 75, 3689-3691	3.4	56
433	Local disorder effects on the pressure dependence of the metal-insulator transition in manganese perovskites. *Applied Physics Letters*, **1998**, 72, 2607-2609	3.4	55
432	Surface-induced phase separation in manganites: A microscopic origin for powder magnetoresistance. *Applied Physics Letters*, **2003**, 82, 928-930	3.4	54
431	Direct imaging of delayed magneto-dynamic modes induced by surface acoustic waves. *Nature Communications*, **2017**, 8, 407	17.4	53
430	Emergence of ferromagnetism in antiferromagnetic TbMnO3 by epitaxial strain. *Applied Physics Letters*, **2010**, 96, 222505	3.4	53
429	Magnetic surface effects and low-temperature magnetoresistance in manganese perovskites. *Journal of Physics Condensed Matter*, **1998**, 10, 1883-1890	1.8	52
428	Electronic transfer in Sr2FeMoO6perovskites. *Journal of Physics Condensed Matter*, **2000**, 12, 10515-10521	2.18	51
427	Growth Window of Ferroelectric Epitaxial Hf0.5Zr0.5O2 Thin Films. *ACS Applied Electronic Materials*, **2019**, 1, 220-228	4	50
426	Engineering Ferroelectric Hf0.5Zr0.5O2 Thin Films by Epitaxial Stress. *ACS Applied Electronic Materials*, **2019**, 1, 1449-1457	4	49
425	Pressure and magnetic-field effects on charge ordering in La0.9Sr0.1MnO3. *Physical Review B*, **1998**, 57, 14680-14683	3.3	49
424	Curie-temperature enhancement of electron-doped Sr2FeMoO6 perovskites studied by photoemission spectroscopy. *Physical Review B*, **2004**, 69,	3.3	48
423	Aging of critical currents and irreversibility line in melt textured YBa2Cu3O7. *Applied Physics Letters*, **1995**, 66, 772-774	3.4	48
422	Ultra-flat BaTiO3 epitaxial films on Si(001) with large out-of-plane polarization. *Applied Physics Letters*, **2013**, 102, 112905	3.4	46
421	A phase transition close to room temperature in BiFeO3 thin films. *Journal of Physics Condensed Matter*, **2011**, 23, 342202	1.8	46
420	ac response of the vortex system in a Pr1.85Ce0.15CuO4-y single crystal. *Physical Review B*, **1993**, 47, 15250-15255	3.3	45
419	Large room-temperature electroresistance in dual-modulated ferroelectric tunnel barriers. *Advanced Materials*, **2015**, 27, 2602-7	24	44

418	Self-Assembly of SrTiO3(001) Chemical-Terminations: A Route for Oxide-Nanostructure Fabrication by Selective Growth. *Chemistry of Materials*, **2009**, 21, 2494-2498	9.6	44
417	Weak localization effects in some metallic perovskites. *European Physical Journal B*, **2004**, 40, 439-444	1.2	44
416	Robust ferroelectricity in epitaxial Hf1/2Zr1/2O2 thin films. *Applied Physics Letters*, **2018**, 113, 082902	3.4	43
415	On the strain coupling across vertical interfaces of switchable BiFeO3CoFe2O4 multiferroic nanostructures. *Applied Physics Letters*, **2009**, 95, 062907	3.4	43
414	Enhancement of antiferromagnetic coupling in the quasi-one-dimensional Ca3Co2O6 ferrimagnet. *Physical Review B*, **2001**, 64,	3.3	43
413	Magnetocapacitance in BaTiO3CoFe2O4 nanocomposites. *Thin Solid Films*, **2010**, 518, 4634-4636	2.2	41
412	Synthesis, structure, and magnetic studies on self-assembled BiFeO3CoFe2O4 nanocomposite thin films. *Journal of Applied Physics*, **2008**, 103, 07E301	2.5	41
411	Exchange bias between magnetoelectric YMnO3 and ferromagnetic SrRuO3 epitaxial films. *Journal of Applied Physics*, **2006**, 99, 08P302	2.5	41
410	Enhanced ferromagnetic interactions in electron doped NdxSr2xFeMoO6double perovskites. *Journal of Physics Condensed Matter*, **2004**, 16, 3173-3182	1.8	41
409	Enhanced ferroelectricity in epitaxial Hf0.5Zr0.5O2 thin films integrated with Si(001) using SrTiO3 templates. *Applied Physics Letters*, **2019**, 114, 222901	3.4	39
408	The direct magnetoelectric effect in ferroelectric-ferromagnetic epitaxial heterostructures. *Nanoscale*, **2013**, 5, 8037-44	7.7	39
407	Magnetic switch of polarization in epitaxial orthorhombic YMnO3 thin films. *Applied Physics Letters*, **2010**, 97, 232905	3.4	39
406	Effects of thickness on the cation segregation in epitaxial (001) and (110) La2/3Ca1/3MnO3 thin films. *Applied Physics Letters*, **2009**, 95, 072507	3.4	39
405	NMR evidence for selective enhancement of Mo magnetic moment by electron doping in Sr2LaxFeMoO6. *Physical Review B*, **2004**, 69,	3.3	39
404	Self-organized structures in CoCr2O4(001) thin films: Tunable growth from pyramidal clusters to a {111} fully faceted surface. *Physical Review B*, **2004**, 70,	3.3	39
403	Anisotropic magnetoresistance and anomalous Hall effect in manganite thin films. *Journal of Physics Condensed Matter*, **2005**, 17, 2733-2740	1.8	39
402	Structural and magnetic characterization of the lithiated iron oxide LixFe3O4. *Journal of Applied Physics*, **1986**, 59, 1918-1926	2.5	38
401	Multiple strain-induced phase transitions in LaNiO3 thin films. *Physical Review B*, **2016**, 94,	3.3	38

400	Magnetic field effect on quantum corrections to the low-temperature conductivity in metallic perovskite oxides. *Physical Review B*, **2005**, 72,	3.3	37
399	Colossal magnetoresistance. *Physics World*, **1999**, 12, 33-38	0.5	37
398	Extraordinary thermopower in magnetoresistive (La1−YYx)0.67Ca0.33MnO3 oxides. *Applied Physics Letters*, **1996**, 68, 2288-2290	3.4	37
397	Critical effects of substrate terraces and steps morphology on the growth mode of epitaxial SrRuO3 films. *Applied Physics Letters*, **2004**, 85, 1981-1983	3.4	36
396	Domain structure of epitaxial SrRuO3 thin films. *Physical Review B*, **2005**, 71,	3.3	36
395	Carrier Density Dependence of Magnetoresistance in Tl2Mn2−RuxO7 Pyrochlores. *Physical Review Letters*, **1999**, 83, 2022-2025	7.4	36
394	Giant resistive peak close to the superconducting transition in L2-xCexCuO4 single crystals. *Physical Review B*, **1992**, 46, 14089-14094	3.3	36
393	Cationic and charge segregation in La2/3Ca1/3MnO3 thin films grown on (001) and (110) SrTiO3. *Applied Physics Letters*, **2008**, 93, 112505	3.4	35
392	Magnetic field and pressure effects on the magnetic transitions of La0.9Ca0.1MnO3 perovskites. *Physical Review B*, **2002**, 66,	3.3	35
391	Temperature dependence of the resistivity and its anisotropy in n-type Nd1.85Ce0.15CuO4 single crystal. *Physica C: Superconductivity and Its Applications*, **1991**, 180, 313-323	1.3	35
390	Multiferroic RMnO3 thin films. *Comptes Rendus Physique*, **2015**, 16, 204-226	1.4	34
389	Two-dimensional electron gases at LaAlO3/SrTiO3 interfaces: orbital symmetry and hierarchy engineered by crystal orientation. *Physical Review Letters*, **2014**, 113, 156802	7.4	34
388	Probing Individual Layers in Functional Oxide Multilayers by Wavelength-Dependent Raman Scattering. *Advanced Functional Materials*, **2012**, 22, 5044-5049	15.6	34
387	Ferromagnetism in epitaxial orthorhombic YMnO3 thin films. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 1719-1722	2.8	34
386	La2−Sr1−MnO3−a0.1Bi0.9MnO3 heterostructures for spin filtering. *Journal of Applied Physics*, **2006**, 99, 08E504	2.5	34
385	Ferromagnetic coupling in NdxCa2−FeMoO6 double perovskites: Dominant band-filling effects. *Physical Review B*, **2004**, 70,	3.3	34
384	Epitaxial Integration on Si(001) of Ferroelectric HfZrO Capacitors with High Retention and Endurance. *ACS Applied Materials & Interfaces*, **2019**, 11, 6224-6229	9.5	33
383	Exchange biasing and electric polarization with YMnO3. *Applied Physics Letters*, **2006**, 89, 032510	3.4	33

382	Impact of microstructure on transport properties of nanometric epitaxial SrRuO3 films. *Applied Physics Letters*, **2003**, 82, 85-87	3.4	33
381	Transition from three- to two-dimensional growth in strained SrRuO3 films on SrTiO3(001). *Applied Physics Letters*, **2003**, 83, 902-904	3.4	33
380	Crystal texture selection in epitaxies of orthorhombic antiferromagnetic YMnO3 films. *Thin Solid Films*, **2008**, 516, 4899-4907	2.2	31
379	Unraveling Ferroelectric Polarization and Ionic Contributions to Electroresistance in Epitaxial Hf0.5Zr0.5O2 Tunnel Junctions. *Advanced Electronic Materials*, **2020**, 6, 1900852	6.4	31
378	High Carrier Mobility, Electrical Conductivity, and Optical Transmittance in Epitaxial SrVO3 Thin Films. *Advanced Functional Materials*, **2019**, 29, 1808432	15.6	30
377	Strain-induced stabilization of new magnetic spinel structures in epitaxial oxide heterostructures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 144, 43-48	3.1	30
376	Band filling versus bond bending in substituted LxSr2−xFeMoO6 (L=Ca, La, Nd) compounds. *Journal of Applied Physics*, **2004**, 95, 7082-7084	2.5	30
375	Bridgman growth and enhanced critical currents in textured YBa2Cu3O7−δ/Y2BaCuO5 composites. *Journal of Alloys and Compounds*, **1993**, 195, 11-14	5.7	30
374	Hybrid perovskite-spinel magnetic tunnel junctions based on conductive ferrimagnetic NiFe2O4. *Journal of Applied Physics*, **2006**, 99, 08K301	2.5	29
373	High-frequency flux dynamics in single-crystal Nd1.85Ce0.15CuO4. *Physical Review B*, **1994**, 50, 1199-1208	3.3	29
372	Absence of magnetic proximity effects in magnetoresistive Pt/CoFe2O4 hybrid interfaces. *Physical Review B*, **2016**, 93,	3.3	28
371	Competition between Polar and Nonpolar Lattice Distortions in Oxide Quantum Wells: New Critical Thickness at Polar Interfaces. *Physical Review Letters*, **2017**, 119, 106102	7.4	28
370	Strain analysis of multiferroic BiFeO3-CoFe2O4 nanostructures by Raman scattering. *Applied Physics Letters*, **2011**, 99, 072901	3.4	28
369	Critical Limitations in the Fabrication of Biferroic BiFeO3−CoFe2O4 Columnar Nanocomposites Due to Bismuth Loss. *Chemistry of Materials*, **2009**, 21, 1375-1380	9.6	28
368	Calculation of levitation forces in permanent magnet-superconductor systems using finite element analysis. *Journal of Applied Physics*, **1997**, 82, 1461-1468	2.5	28
367	Growth and magnetic properties of multiferroic LaxBi1−xMnO3 thin films. *Physical Review B*, **2007**, 75,	3.3	28
366	Strain-induced charge depletion in La2/3Ca1/3MnO3 epitaxial thin films. *Applied Physics Letters*, **2003**, 82, 4531-4533	3.4	28
365	Self-organization in complex oxide thin films: from 2D to 0D nanostructures of SrRuO3and CoCr2O4. *Nanotechnology*, **2005**, 16, S190-S196	3.4	28

364	Aging of Sr2FeMoO6 and related oxides. *Materials Research Bulletin*, **2003**, 38, 1477-1486	5.1	27
363	Chiral domains in cycloidal multiferroic thin films: switching and memory effects. *Physical Review Letters*, **2011**, 107, 257601	7.4	26
362	Anisotropic magnetoresistance of (00h), (0hh) and (hhh) La2/3Sr1/3MnO3 thin films on (001) Si substrates. *Journal of Magnetism and Magnetic Materials*, **2000**, 211, 206-211	2.8	26
361	Electric-Field-Adjustable Time-Dependent Magnetoelectric Response in Martensitic FeRh Alloy. *ACS Applied Materials & Interfaces*, **2017**, 9, 15577-15582	9.5	25
360	Spin Hall Magnetoresistance as a Probe for Surface Magnetization in Pt/CoFe2O4 Bilayers. *Physical Review Applied*, **2016**, 6,	4.3	25
359	Large out-of-plane ferroelectric polarization in flat epitaxial BaTiO3 on CoFe2O4 heterostructures. *Applied Physics Letters*, **2013**, 102, 172907	3.4	25
358	Strain-driven noncollinear magnetic ordering in orthorhombic epitaxial YMnO3 thin films. *Journal of Applied Physics*, **2010**, 108, 123917	2.5	25
357	Strain tuned magnetoelectric coupling in orthorhombic YMnO3 thin films. *Applied Physics Letters*, **2009**, 95, 142903	3.4	25
356	Thickness dependence of surface roughness and transport properties of La2/3Ca1/3MnO3 epitaxial thin films. *Journal of Applied Physics*, **2001**, 89, 6686-6688	2.5	25
355	Pressure effects on the structural phase transition in La0.8Ba0.2MnO3 single crystals. *Physical Review B*, **2001**, 63,	3.3	25
354	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
353	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
352	Magnetic order or charge-density wave in La2NiO4 by M□ssbauer spectroscopy. *Physical Review B*, **1984**, 30, 6320-6326	3.3	25
351	Bandwidth-limited control of orbital and magnetic orders in half-doped manganites by epitaxial strain. *Physical Review B*, **2014**, 89,	3.3	24
350	Andreev reflection in ferrimagnetic CoFe2O4 spin filters. *Physical Review B*, **2010**, 81,	3.3	24
349	Jahn-Teller contribution to the magneto-optical effect in thin-film ferromagnetic manganites. *Physical Review B*, **2009**, 79,	3.3	24
348	Step formation, faceting, and bunching in atomically flat SrTiO3 (110) surfaces. *Applied Physics Letters*, **2007**, 91, 251904	3.4	24
347	Thickness dependence of the magnetic anisotropy in La2/3Ca1/3MnO3 thin films grown on LaAlO3 substrates. *Journal of Applied Physics*, **2003**, 93, 8059-8061	2.5	24

346	Diamagnetic Susceptibility and Root Growth Responses to Magnetic Fields in Lens culinaris, Glycine soja, and Triticum aestivum. *Electromagnetic Biology and Medicine*, **2004**, 23, 97-112	2.2	24
345	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
344	Preparation and characterization of conducting thin films of molecular organic conductors (TTF-TCNQ). *Journal of Crystal Growth*, **1996**, 166, 798-803	1.6	24
343	Spin-disorder scattering and localization in magnetoresistive (La1-xYx)2/3Ca1/3MnO3 perovskites. *Physical Review B*, **1996**, 54, 10001-10007	3.3	24
342	Selecting Steady and Transient Photocurrent Response in BaTiO3 Films. *Advanced Electronic Materials*, **2015**, 1, 1500171	6.4	23
341	Tailoring Lattice Strain and Ferroelectric Polarization of Epitaxial BaTiO Thin Films on Si(001). *Scientific Reports*, **2018**, 8, 495	4.9	23
340	Polar domain walls trigger magnetoelectric coupling. *Scientific Reports*, **2015**, 5, 13784	4.9	23
339	Dielectric properties of (Bi0.9La0.1)2NiMnO6 thin films: Determining the intrinsic electric and magnetoelectric response. *Physical Review B*, **2012**, 86,	3.3	23
338	Tuning in-plane magnetic anisotropy in (110) La2□Ca1□MnO3 films by anisotropic strain relaxation. *Applied Physics Letters*, **2008**, 92, 012508	3.4	23
337	Effect of disorder on the temperature dependence of the resistivity of SrRuO3. *Physical Review B*, **2008**, 77,	3.3	23
336	Dielectric anomaly and magnetic response of epitaxial orthorhombic YMnO3 thin films. *Journal of Materials Research*, **2007**, 22, 2096-2101	2.5	23
335	Configurational disorder and magnetism in double perovskites: A Monte Carlo simulation study. *Physical Review B*, **2004**, 69,	3.3	23
334	Band Gap Closing in La2-xSrxNiO4+□*Journal of Solid State Chemistry*, **1993**, 102, 455-464	3.3	23
333	Strain-Driven Orbital and Magnetic Orders and Phase Separation in Epitaxial Half-Doped Manganite Films for Tunneling Devices. *Physical Review Applied*, **2016**, 6,	4.3	22
332	Dielectric response of epitaxially strained CoFe2O4 spinel thin films. *Physical Review B*, **2012**, 86,	3.3	22
331	Domain matching epitaxy of ferrimagnetic CoFe2O4 thin films on Sc2O3/Si(111). *Applied Physics Letters*, **2011**, 99, 211910	3.4	22
330	Magnetic anisotropy and spin diffusion through spin disordered interfaces in magnetoresistive manganites. *Journal of Applied Physics*, **1998**, 83, 7058-7060	2.5	22
329	ac response of Hg-based superconductors: Surface barrier and bulk pinning contributions. *Physical Review B*, **2000**, 61, 9793-9799	3.3	22

328	Blocking of Conducting Channels Widens Window for Ferroelectric Resistive Switching in Interface-Engineered Hf0.5Zr0.5O2 Tunnel Devices. *Advanced Functional Materials*, **2020**, 30, 2002638	15.6	21
327	Sputtering growth and characterization of CoFe2O4BaTiO3 nanostructures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 144, 127-131	3.1	21
326	Bandwidth dependence of the charge-order and Curie temperatures in manganese perovskites. *Physical Review B*, **1999**, 60, 6266-6269	3.3	21
325	Magnetic properties of colossal magnetoresistive manganese oxides. *Journal of Applied Physics*, **1996**, 79, 5182	2.5	21
324	Two-band conduction in the normal state of a superconducting Sm1.85Ce0.15CuO4 single crystal. *Physica C: Superconductivity and Its Applications*, **1993**, 210, 221-227	1.3	21
323	Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. *Advanced Functional Materials*, **2016**, 26, 6446-6453	15.6	20
322	Direct observation of multivalent states and 4f-þd charge transfer in Ce-doped yttrium iron garnet thin films. *Physical Review B*, **2017**, 96,	3.3	20
321	Hidden Magnetic States Emergent Under Electric Field, In A Room Temperature Composite Magnetoelectric Multiferroic. *Scientific Reports*, **2017**, 7, 15460	4.9	20
320	Magnetophotonic response of three-dimensional opals. *ACS Nano*, **2011**, 5, 2957-63	16.7	20
319	X-ray interference effects on the determination of structural data in ultrathin La2/3Sr1/3MnO3 epitaxial thin films. *Applied Physics Letters*, **2011**, 99, 221901	3.4	20
318	Strain-driven transition from E-type to A-type magnetic order in YMnO3 epitaxial films. *Physical Review B*, **2012**, 86,	3.3	20
317	Anisotropic paramagnetic response of hexagonal RMnO3. *Physical Review B*, **2009**, 79,	3.3	20
316	Probing Mo core valence on Sr2FeMoO6 half-metallic ferromagnets and their electron-doped derivative compounds by photoelectron spectroscopy. *Physical Review B*, **2004**, 70,	3.3	20
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List of Publications

4 Magnetoresistance at Interfaces in Submicrometric Manganese Perovskites Ceramics **1999**, 105-118

3 Nanosession: Nanotechnological Fabrication Strategies429-439

2 Poster: Electronic Structure, Lattice Dynamics, and Transport471-522

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