M S Ramachandra Rao

List of Publications by Year
in descending order

203	4,305	136950 32	149698 56
papers	citations	h-index	g-index

207	207	207	5818
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interplay of piezoresponse and magnetic behavior in Bi_{0.9}A_{0.1}FeO_{2.95} (A = Ba, Ca) and Bi_{0.9}Ba_{0.05}Ca_{0.05}FeO_{2.95} co-doped ceramics. RSC Advances, 2022, 12, 2443-2453.	3.6	0
2	Enhanced photo-fenton and photoelectrochemical activities in nitrogen doped brownmillerite KBiFe2O5. Scientific Reports, 2022, 12, 5111.	3.3	7
3	Signature of a randomness-driven spin-liquid state in a frustrated magnet. Communications Physics, 2022, 5, .	5.3	7
4	Diamondâ€"the ultimate material for exploring physics of spin-defects for quantum technologies and diamondtronics. Journal Physics D: Applied Physics, 2022, 55, 333002.	2.8	4
5	A review on realizing the modern optoelectronic applications through persistent photoconductivity. Journal Physics D: Applied Physics, 2022, 55, 393001.	2.8	11
6	Thermal transport across wrinkles in few-layer graphene stacks. Nanoscale Advances, 2021, 3, 1708-1716.	4.6	22
7	Pairâ€Emissionâ€Induced Nearâ€Infrared Lasing from Ceramic Ga:LaCrO 3 Microcrystals at Room Temperature. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000519.	2.4	2
8	Study of Thermometry in Two-Dimensional Sb2Te3 from Temperature-Dependent Raman Spectroscopy. Nanoscale Research Letters, 2021, 16, 22.	5.7	11
9	Development of short and long-range magnetic order in the double perovskite based frustrated triangular lattice antiferromagnet Ba$$_{2}$$MnTeO$$_{6}$$. Scientific Reports, 2021, 11, 6959.	3.3	11
10	Realization of highly conducting n-type diamond by phosphorus ion implantation. Applied Physics Letters, 2021, 118, .	3.3	10
11	Biocompatible miniature temperature sensor based on whispering gallery modes of Sm3+ activated ZnO optical micro-resonators. Applied Physics Letters, 2021, 118, .	3.3	12
12	Large microwave inductance of granular boron-doped diamond superconducting films. Applied Physics Letters, 2021, 118, .	3.3	5
13	Influence of Ca doping on Xâ€ray photoelectron coreâ€level spectra of magnetoelectric bulk BiFeO₃. Surface and Interface Analysis, 2021, 53, 798-807.	1.8	4
14	Thickness-Dependent Domain Relaxation Dynamics Study in Epitaxial K_{0.5}Na_{0.5}NbO₃ Ferroelectric Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 36407-36415.	8.0	10
15	N⁺-ion implantation induced enhanced conductivity in polycrystalline and single crystal diamond. RSC Advances, 2021, 11, 23686-23699.	3.6	5
16	Metalâ€"insulator transition in epitaxial Ga-doped ZnO films via controlled thickness. Journal of Physics Condensed Matter, 2021, 33, 105703.	1.8	3
17	g-C3N4/Ca2Fe2O5 heterostructures for enhanced photocatalytic degradation of organic effluents under sunlight. Scientific Reports, 2021, 11, 19639.	3.3	29
18	Effective Bandgap Engineering in Perovskite Ferroelectrics by Successive Multiple Doping. Physica Status Solidi (B): Basic Research, 2020, 257, 1900272.	1.5	3

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19	Realization of sharp visible WGM lasing from Sm³⁺â€‰:ZnO micro-spheres fabricated by laser ablation technique. Journal Physics D: Applied Physics, 2020, 53, 135302.	2.8	5
20	Effect of interfacial oxidation layer in spin pumping experiments on Ni80Fe20/SrIrO3 heterostructures. Journal of Applied Physics, 2020, 128, .	2.5	9
21	Realization of 1ÂÎ¼m thick, crack-free and smooth PMN-PT film in the MPB through PLD: A comprehensive study. Ceramics International, 2020, 46, 26767-26776.	4.8	6
22	Femtosecond Pulse Ablation Assisted Mg-ZnO Nanoparticles for UV-Only Emission. Nanomaterials, 2020, 10, 1326.	4.1	6
23	Ultra-Wide Bandgap Copper Oxide: High Performance Solar-Blind Photo-detection. IEEE Electron Device Letters, 2020, 41, 1790-1793.	3.9	12
24	Tunable and enhanced Rashba spin-orbit coupling in iridate-manganite heterostructures. Physical Review B, 2020, 102, .	3.2	21
25	Study of absorption of radio frequency field by gold nanoparticles and nanoclusters in biological medium. Electromagnetic Biology and Medicine, 2020, 39, 183-195.	1.4	6
26	Single-ion anisotropy driven splitting of spin wave resonances in BiFeO₃ at low temperature. Journal of Physics Condensed Matter, 2020, 32, 405701.	1.8	2
27	Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition. ACS Nano, 2020, 14, 3290-3298.	14.6	20
28	Long-Lasting Persistent Photoconductivity in Au/CuO Thin Films for Optical Memory. IEEE Photonics Technology Letters, 2020, 32, 329-332.	2.5	9
29	Nanoscale Probing of Magnetic and Electrical Properties of YIG/Si (100) Thin Films Grown by Pulsed Laser Deposition. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	1
30	Growth of sillenite Bi12FeO20 single crystals: structural, thermal, optical, photocatalytic features and first principle calculations. Scientific Reports, 2020, 10, 22052.	3.3	20
31	Chemical pressure induced near-complete suppression of spin-wave excitations in Bi_{0.9}A_{0.1}FeO_{2.95} (A = Ba, Ca). Journal Physics D: Applied Physics, 2020, 53, 495302.	2.8	2
32	Stacking angle dependent multiple excitonic resonances in bilayer tungsten diselenide. Nanophotonics, 2020, 9, 3881-3887.	6.0	3
33	Plasmon-Assisted Selective Enhancement of Direct-Band Transitions in Multi-Layer MoS₂. IEEE Photonics Journal, 2019, 11, 1-6.	2.0	2
34	Rapid wafer-scale fabrication with layer-by-layer thickness control of atomically thin MoS2 films using gas-phase chemical vapor deposition. APL Materials, 2019, 7, .	5.1	31
35	Selective area laser-assisted doping of SiC thin films and blue light electroluminescence. Journal Physics D: Applied Physics, 2019, 52, 48LT01.	2.8	4
36	Exciton Lasing in ZnO-ZnCr₂O₄ Nanowalls. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	2

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37	ZnO/Au/ZnO Configuration for High Performance Multiband UV Photo-Detection. , 2019, 3, 1-4.		4
38	Polarization controlled photovoltaic and self-powered photodetector characteristics in Pb-free ferroelectric thin film. APL Materials, 2019, 7, .	5.1	40
39	Plasmon induced brightening of dark exciton in monolayer WSe2 for quantum optoelectronics. Applied Physics Letters, 2019, 114, 201101.	3.3	12
40	High-Performance Broadband Photo-Detection in Solution-Processed ZnO-ZnCr₂O₄Nanowalls. IEEE Electron Device Letters, 2019, 40, 1143-1146.	3.9	11
41	Controlled piezotronic properties on recoverable energy storage density in rare-earth ions doped epitaxial PZT thin films. Journal Physics D: Applied Physics, 2019, 52, 304001.	2.8	10
42	Laser Assisted Doping of Silicon Carbide Thin Films Grown by Pulsed Laser Deposition. Journal of Electronic Materials, 2019, 48, 3468-3478.	2.2	12
43	Origin of defect dipoles in Fe doped Pb(Zr_xTi<sub>1â^'x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502	2.8	5
44	Anomalous magnetic behavior and complex magnetic structure of proximate LaCrO₃â€"LaFeO₃ system. Materials Research Express, 2019, 6, 126119.	1.6	2
45	Studies on ferroelectric and nanomechanical response of single-layered PZT thick film for energy harvester applications. Ferroelectrics, 2019, 551, 17-23.	0.6	5
46	Fabrication and Characterization of Cu2â^'XZn1.3SnS4 Kesterite Thin Films Synthesized by Solvent Based Process Method for Photovoltaic Solar Energy Applications. Lecture Notes in Mechanical Engineering, 2019, , 241-247.	0.4	1
47	Special issue on magnetoelectrics and their applications. Journal Physics D: Applied Physics, 2019, 52, 100301.	2.8	6
48	Enhancement of magnetic properties in compressively strained PrVO3 thin films. Physical Review Materials, 2019, 3, .	2.4	2
49	Flux pinning and improved critical current density in superconducting boron doped diamond films. Journal of Physics Communications, 2018, 2, 045015.	1.2	6
50	Fabrication of high responsivity deep UV photo-detector based on Na doped ZnO nanocolumns. Journal Physics D: Applied Physics, 2018, 51, 185106.	2.8	25
51	Enhancement in electrical and magnetodielectric properties of Caâ€•and Baâ€•doped BiFeO₃ polycrystalline ceramics. Journal of the American Ceramic Society, 2018, 101, 782-788.	3.8	19
52	Effect of Ag Addition on the Surface Topography and the Vibrational Dynamics of MgB2. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2033-2038.	1.8	5
53	Evolution of morphology, ferroelectric, and mechanical properties in poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 2018, 135, 45955.	2.6	14
54	In Situ/ex Situ Investigations on the Formation of the Mosaic Solid Electrolyte Interface Layer on Graphite Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 28717-28726.	3.1	62

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55	Self-polarization effect on large photovoltaic response in lead free ferroelectric 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 epitaxial film. Applied Physics Letters, 2018, 113, .	3.3	8
56	Photoactive Brownmillerite Multiferroic KBiFe₂O₅ and Its Potential Application in Sunlight-Driven Photocatalysis. ACS Omega, 2018, 3, 16643-16650.	3.5	29
57	Near Infrared Random Lasing in Multilayer MoS₂. ACS Omega, 2018, 3, 14097-14102.	3.5	13
58	Impedance characteristics and PTCR effect in lead free BaTi 1- x Sn x O 3 piezoceramics. Materials Research Bulletin, 2018, 106, 371-378.	5.2	14
59	Room temperature WGM resonances in the red spectral range from Ho3+ activated ZnO micro-spherical cavities. Applied Physics Letters, 2018, 112, .	3.3	4
60	Integration of ferroelectric Pb(Zr0.52Ti0.48)O3 thin films on conducting nanocrystalline diamond for high performance device applications. Applied Physics Letters, 2018, 113, .	3.3	3
61	Zinc Interstitial Rich ZnO Honeycomb Nanostructures for Deep UV Photodetection. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800241.	2.4	19
62	High temperature magnetic studies on Bi1-xCaxFe1â^'yTiyO3-Î´ nanoparticles: Observation of Hopkinson-like effect above TN. Journal of Applied Physics, 2018, 124, .	2.5	6
63	Influence of Microstructure on the Nanomechanical Properties of Polymorphic Phases of Poly(vinylidene fluoride). Journal of Physical Chemistry B, 2018, 122, 8591-8600.	2.6	16
64	Pure spin current transport in gallium doped zinc oxide. Applied Physics Letters, 2017, 110, 052403.	3.3	2
65	Variable range hopping crossover and magnetotransport in PLD grown Sb doped ZnO thin film. Semiconductor Science and Technology, 2017, 32, 045008.	2.0	10
66	Enhanced functional response of high temperature stabilized (1-x)PMN-xPT ceramics. Ceramics International, 2017, 43, 9408-9415.	4.8	14
67	Optical and magnetic characterization of transition metal ion doped ZnO microspheres synthesized via laser ablation in air. Proceedings of SPIE, 2017, , .	0.8	0
68	Effect of boron doping on first-order Raman scattering in superconducting boron doped diamond films. Applied Physics Letters, 2017, 110, .	3.3	35
69	Effect of Ag Addition on Microstructure and Raman Vibrational Modes of Bulk FeSe. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3117-3122.	1.8	19
70	Localization crossover and phase coherent electron transport in a-InGaZnO4 thin films. Applied Physics Letters, 2017, 110, 122101.	3.3	2
71	Charged vacancy induced enhanced piezoelectric response of reactive assistive IBSD grown AlN thin films. Journal Physics D: Applied Physics, 2017, 50, 015601.	2.8	9
72	On the development of a dual-layered diamond-coated tool for the effective machining of titanium Ti-6Al-4V alloy. Journal Physics D: Applied Physics, 2017, 50, 015302.	2.8	12

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73	Reversible p -type conductivity in H passivated nitrogen and phosphorous codoped ZnO thin films using rapid thermal annealing. Applied Surface Science, 2017, 400, 312-317.	6.1	6
74	Enhanced photoluminescence and heterojunction characteristics of pulsed laser deposited ZnO nanostructures. Applied Surface Science, 2017, 418, 335-339.	6.1	16
75	Microstrain engineered magnetic properties in Bi_{1â^'x}Ca_xFe_{1â^'y}Ti_yO_{3â^'Î´}nano deviation from NÃ©elâ€™s 1/dsize-dependent magnetization behaviour. Materials Research Express, 2017, 4, 106106.	1.6	9
76	Enhanced electron-phonon coupling and critical current density in rapid thermally quenched MgB2 bulk samples. AIP Advances, 2017, 7, .	1.3	1
77	Investigation on tribological behaviour of boron doped diamond coated cemented tungsten carbide for cutting tool applications. Surface and Coatings Technology, 2017, 332, 332-340.	4.8	24
78	Band gap reduction and redshift of lattice vibrational spectra in Nb and Fe co-doped PLZT. Journal of Materials Science, 2017, 52, 13012-13022.	3.7	21
79	Stabilization heat treatment and functional response of 0.65[Pb(Mg1/3Nb2/3)O3]-0.35[PbTiO3] ceramics. Materials Research Bulletin, 2017, 95, 47-55.	5.2	6
80	Top-seeded infiltration growth of (Y, Gd)Ba₂Cu₃Oy bulk superconductors with high critical current densities. Superconductor Science and Technology, 2017, 30, 105015.	3.5	10
81	Oxygenated graphene quantum dots (GQDs) synthesized using laser ablation for long-term real-time tracking and imaging. RSC Advances, 2017, 7, 53822-53829.	3.6	43
82	Microstructural analysis of co-sintered PSLZT-NZFO layered magnetoelectric composite. Ferroelectrics, 2017, 516, 60-66.	0.6	5
83	High-pressure behavior of superconducting boron-doped diamond. Physical Review B, 2017, 95, .	3.2	17
84	Raman spectroscopy of carbon doped MgB2 prepared using carbon encapsulated boron as precursor. Journal of Alloys and Compounds, 2017, 723, 751-756.	5.5	12
85	Enhancement of dielectric and ferroelectric properties in cobalt ferrite doped poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	15
86	Ho^3+-doped ZnO nano phosphor for low-threshold sharp red light emission at elevated temperatures. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2485.	2.1	17
87	Influence of boron doping on mechanical and tribological properties in multilayer CVD-diamond coating systems. Bulletin of Materials Science, 2016, 39, 1753-1761.	1.7	9
88	Direct and Facile Room-Temperature Synthesis of Nanocrystalline Calcium Sulfate Dihydrate (Gypsum). Crystal Growth and Design, 2016, 16, 3256-3261.	3.0	12
89	The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.	2.8	266
90	Growth and tribological properties of diamond films on silicon and tungsten carbide substrates. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5

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91	ZnO@MnO₂ Coreâ€“Shell Nanofiber Cathodes for High Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 30531-30542.	8.0	130
92	Polarity control and enhanced luminescence characteristics of semi-polar ZnO nanostructures grown on non-polar MgO(100) substrates. RSC Advances, 2016, 6, 93125-93129.	3.6	5
93	Improved critical current densities in bulk FeSe superconductor using ball milled powders and high temperature sintering. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3214-3220.	1.8	11
94	Electrocaloric effect in (1Ââ^'Âx)PIN-xPT relaxor ferroelectrics. Journal of Alloys and Compounds, 2016, 663, 444-448.	5.5	31
95	Adhesion at WC/diamond interfaces - A theoretical study. AIP Conference Proceedings, 2015, , .	0.4	1
96	The chance of a bullet: when the great war killed Henry Moseley. Journal Physics D: Applied Physics, 2015, 48, 500302.	2.8	0
97	100 years of crystallography: new dimensions offered by large scale facilities. Journal Physics D: Applied Physics, 2015, 48, 500301.	2.8	0
98	Magnetostructural and magnetocaloric properties of bulk LaCrO₃system. Materials Research Express, 2015, 2, 026103.	1.6	32
99	Zn-vacancy induced violet emission in p-type phosphorus and nitrogen codoped ZnO thin films grown by pulsed laser deposition. Applied Surface Science, 2015, 347, 96-100.	6.1	32
100	Phonon thermal transport and phononâ€“magnon coupling in polycrystalline BiFeO₃systems. Journal Physics D: Applied Physics, 2015, 48, 115301.	2.8	16
101	Engineered CVD Diamond Coatings for Machining and Tribological Applications. Jom, 2015, 67, 1565-1577.	1.9	33
102	Realization of device quality PMNâ€“PT ceramics using modulated heating method. Ceramics International, 2015, 41, 11984-11991.	4.8	17
103	Wide-range tunable bandgap in Bi_{1â^'x}Ca_xFe_{1â^'y}Ti_yO_{3â^'Î´}nanoc via oxygen vacancy induced structural modulations at room temperature. Materials Research Express, 2015, 2, 095012.	1.6	18
104	An aqueous method for the controlled manganese (Mn²⁺) substitution in superparamagnetic iron oxide nanoparticles for contrast enhancement in MRI. Physical Chemistry Chemical Physics, 2015, 17, 4609-4619.	2.8	27
105	Fast, reversible CO2 capture in nanostructured Brownmillerite CaFeO2.5. Nano Energy, 2015, 11, 146-153.	16.0	32
106	Growth and characterization of diamond particles, diamond films, and CNT-diamond composite films deposited simultaneously by hot filament CVD. Journal of Materials Science, 2015, 50, 144-156.	3.7	9
107	Magnetic phases of erbium orthochromite. Materials Research Express, 2014, 1, 036102.	1.6	8
108	Magnetic hyperthermia studies on water-soluble polyacrylic acid-coated cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	23

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109	Electrical surface-resistivity, dielectric resonance, polarization and magnetic properties of Bi0.5Sr0.5FeO3â^'Î´thin films grown by pulsed laser deposition. Journal Physics D: Applied Physics, 2014, 47, 355304.	2.8	0
110	White Luminescence of Amorphous SiO2Capped and Uncapped Zn1-m-nS: Ce0.0005, Li0.0005, Mnn(1 < n <) Tj ETQq0 0 0 rgBT /Overlo 2014, 3, R115-R120.	1.8	1
111	Fabrication of nanowires of Al-doped ZnO using nanoparticle assisted pulsed laser deposition (NAPLD) for device applications. Journal of Alloys and Compounds, 2014, 584, 611-616.	5.5	29
112	Effect of microstrain on the magnetic properties of BiFeO3 nanoparticles. Applied Physics Letters, 2014, 105, .	3.3	45
113	25 years of pulsed laser deposition. Journal Physics D: Applied Physics, 2014, 47, 030301.	2.8	34
114	Light induced phase change in Cu2â^'xZn1.3SnS4 thin films. Applied Physics Letters, 2014, 104, 152106.	3.3	10
115	Microstructure and phase composition dependent tribological properties of TiC/a-C nanocomposite thin films. Surface and Coatings Technology, 2014, 258, 557-565.	4.8	24
116	Nanocrystalline diamond coatings on the interior of WCâ€“Co dies for drawing carbon steel tubes: Enhancement of tube properties. Diamond and Related Materials, 2014, 50, 33-37.	3.9	21
117	Application Worthy SPIONs: Coated Magnetic Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-6.	2.1	3
118	Formation of one-dimensional ZnO nanowires from screw-dislocation-driven two-dimensional hexagonal stacking on diamond substrate using nanoparticle-assisted pulsed laser deposition. Journal Physics D: Applied Physics, 2014, 47, 034016.	2.8	7
119	Realization of highest specific absorption rate near superparamagnetic limit of CoFe₂O₄colloids for magnetic hyperthermia applications. Materials Research Express, 2014, 1, 026107.	1.6	17
120	Zinc Oxide: The Versatile Material with an Assortment of Physical Properties. Springer Series in Materials Science, 2014, , 1-38.	0.6	4
121	Effect of Oxygen Pressure on Photoluminescence Spectra and Hall Coefficients of Liâ€“Ni Co-Doped ZnO Films Grown by a Pulsed Laser Deposition. Springer Series in Materials Science, 2014, , 91-99.	0.6	1
122	Low-Temperature Photoluminescence of Sb-doped ZnO Nanowires Synthesized on Sb-coated Si Substrate by Chemical Vapor Deposition Method. Springer Series in Materials Science, 2014, , 331-339.	0.6	0
123	Synthesis and Characterization of ZnO-Based Phosphors and Related Phosphor Composites in Bulk, Thin Film and Nano Form. Springer Series in Materials Science, 2014, , 247-268.	0.6	0
124	Effect of temperature on the stability of diamond particles and continuous thin films by Raman imaging. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	8
125	Tunable bandgap in BiFeO3 nanoparticles: The role of microstrain and oxygen defects. Applied Physics Letters, 2013, 103, .	3.3	235
126	EXAFS and XANES investigation of (Li, Ni) codoped ZnO thin films grown by pulsed laser deposition. Journal of Physics Condensed Matter, 2013, 25, 385402.	1.8	19

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127	Dielectric and optical phonon anomalies near antiferromagnetic ordering in LaCrO3: A possible near room temperature magnetodielectric system. Applied Physics Letters, 2013, 103, .	3.3	33
128	Chemical vapor deposition of diamond coatings on tungsten carbide (WCâ€“Co) riveting inserts. International Journal of Refractory Metals and Hard Materials, 2013, 37, 117-120.	3.8	30
129	HoCrO₃ and YCrO₃: a comparative study. Journal of Physics Condensed Matter, 2013, 25, 216004.	1.8	55
130	Studies on corrosion and wear behavior of submicrometric diamond coated Ti alloys. Tribology International, 2013, 63, 132-140.	5.9	22
131	Synthesis and characterisation of CuInGaS₂nano-ink for photovoltaic applications. Journal of Experimental Nanoscience, 2013, 8, 320-325.	2.4	6
132	Extremely high wear resistance and ultra-low friction behaviour of oxygen-plasma-treated nanocrystalline diamond films. Journal Physics D: Applied Physics, 2013, 46, 425304.	2.8	17
133	Dielectric resonance and magnetic properties of Fe-3% doped BaSnO3 thin films grown by pulsed laser deposition. Journal of Applied Physics, 2012, 111, 074107.	2.5	14
134	Adhesive Microcrystalline Diamond Coating on Surface Modified Non-Carbide Forming Substrate Using Hot Filament CVD. Materials Express, 2012, 2, 115-120.	0.5	10
135	Dielectric relaxation and magneto-dielectric effect in polycrystalline Bi0.9Ca0.1FeO2.95. Applied Physics Letters, 2012, 100, .	3.3	30
136	Integration of perovskite PZT thin films on diamond substrate without buffer layer. Journal Physics D: Applied Physics, 2012, 45, 202001.	2.8	22
137	Mechanical milling assisted synthesis of Baâ€“Mn co-substituted BiFeO3ceramics and their properties. Journal Physics D: Applied Physics, 2012, 45, 415302.	2.8	28
138	Chemical pressure effect on optical properties in multiferroic bulk BiFeO3. Journal of Applied Physics, 2012, 112, .	2.5	34
139	Weak ferromagnetic ordering in Ca doped polycrystalline BiFeO3. Journal of Applied Physics, 2012, 111, .	2.5	67
140	A Codoping Route to Realize Low Resistive and Stable p-Type Conduction in (Li, Ni):ZnO Thin Films Grown by Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2011, 3, 1974-1979.	8.0	26
141	Three decades of scanning tunnelling microscopy that changed the course of surface science. Journal Physics D: Applied Physics, 2011, 44, 460301.	2.8	3
142	Magnetic and dielectric properties study of cobalt ferrite nanoparticles synthesized by co-precipitation method. Materials Research Society Symposia Proceedings, 2011, 1368, 1.	0.1	12
143	Influence of A-site Gd doping on the microstructure and dielectric properties of Ba(Zr0.1Ti0.9)O3 ceramics. Journal of Alloys and Compounds, 2011, 509, 1266-1270.	5.5	41
144	Dielectric relaxation near 25â€‰K in multiferroic BiFeO3 ceramics. Journal of Applied Physics, 2011, 110, .	2.5	26

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145	Carbon-based nanoscience and nanotechnology: where are we, where are we heading?. Journal Physics D: Applied Physics, 2010, 43, 370301.	2.8	3
146	Cool white light emission on Ca3â^'(l+n)MgSi2O8: $mathrm{Ce}_{mathrm{l}}^{3+}$, $mathrm{Eu}_{n}^{2+}$ phosphors and analysis of energy transfer mechanism. Applied Physics A: Materials Science and Processing, 2010, 99, 947-953.	2.3	15
147	Synthesis and study of electrical and magnetic properties of vanadium oxide micro and nanosized rods grown using pulsed laser deposition technique. Solid State Communications, 2010, 150, 1041-1044.	1.9	39
148	Synthesis and Formation Mechanism of ZnO Nanobrushes. , 2010, , .		0
149	Investigation of low-temperature excitonic and defect emission from Ni-doped ZnO nanoneedles and V-doped ZnO nanostructured film. New Journal of Physics, 2010, 12, 023007.	2.9	10
150	Thin film growth, electrical transport and ohmic contact studies of p-ZnO. , 2010, , .		0
151	Charge transfer and electronic transitions in polycrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></ Physical Review B, 2010, 82, .	3.2	122
152	Oxygen vacancy controlled tunable magnetic and electrical transport properties of (Li, Ni)-codoped ZnO thin films. Applied Physics Letters, 2010, 96, .	3.3	41
153	Low temperature magnetocaloric effect in polycrystalline BiFeO3 ceramics. Applied Physics Letters, 2009, 95, .	3.3	86
154	UV excitable Y2â^'xâ^'y Gd y SiO5:Ce x phosphors for cool white light emission. Applied Physics A: Materials Science and Processing, 2009, 94, 607-612.	2.3	13
155	Magnetic and optical properties of Mn-doped BaSnO3. Solid State Communications, 2009, 149, 884-887.	1.9	76
156	SrS:Ce/ZnS:Mn-A di-band phosphor for near-UV and blue LED-converted white-light emitting diodes. Journal of Luminescence, 2009, 129, 991-995.	3.1	8
157	Epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Zn</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> films: A spintronic material with tunable electrical and magnetic properties. Physical Review B, 2009, 79, .	3.2	134
158	Study of pulsed laser deposited ZnGa₂O₄â€‰:â€‰Mn phosphor thin films in an oxygen controlled environment. Journal Physics D: Applied Physics, 2009, 42, 155301.	2.8	6
159	Effect of La substitution on the structural and dielectric properties of BaZr0.1Ti0.9O3 ceramics. Journal of Alloys and Compounds, 2009, 481, 692-696.	5.5	51
160	Optical and electrical resistivity studies of isovalent and aliovalent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>transition metal ion doped ZnO. Physical Review B, 2009, 80, .	3.2	128
161	Synthesis of Novel ZnO Hexagonal Nanocones by Direct Thermal Evaporation Method. Journal of Nanoscience and Nanotechnology, 2009, 9, 5307-5310.	0.9	3
162	Color tuning of Y3Al5O12:Ce phosphor and their blend for white LEDs. Materials Research Bulletin, 2008, 43, 1657-1663.	5.2	125

#	Article	IF	Citations
163	Correlation between electrical transport, optical, and magnetic properties of transition metal ion doped ZnO. Journal of Applied Physics, 2008, 103, .	2.5	32
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186	Effect of rare earth ion substitution on the magnetic and transport properties of Pr $_{mathsf{0.7}}$RE $_mathsf{0.04}$Sr $_mathsf{0.26}$MnO$_mathsf{3}$ (RE = Er$^mathsf{3 + }$,) Tj ETQq0 0 0 rgBT /Overlock 1	1.0	50
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