Vasant G Sathe

List of Publications by Year
in descending order

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127	1,990	304743	302126
papers	citations	22 h-index	39 g-index

128	128	128	2455
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mossbauer, Raman and X-ray diffraction studies of superparamagnetic NiFe2O4 nanoparticles prepared by solâ€“gel auto-combustion method. Journal of Magnetism and Magnetic Materials, 2011, 323, 2041-2047.	2.3	212
2	Local structural disorder and its influence on the average global structure and polar properties in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml:math xmlns:mm	3.2	194
3	Optical band gap, glass transition temperature and structural studies of (100â^'2x)TeO2â€“xAg2Oâ€“xWO3 glass system. Journal of Alloys and Compounds, 2010, 504, 468-474.	5.5	129
4	Raman spectroscopic investigations on transitionâ€metal dichalcogenides MX₂ (Mâ€‰=â€‰Mo, W;	2.5	72
5	Signature of spin-phonon coupling in Sr2CoO4 thin film: A Raman spectroscopic study. Applied Physics Letters, 2013, 102, .	3.3	45
6	Structural and optical analysis of Fe doped NiO nanoparticles synthesized by chemical precipitation route. Materials Research Bulletin, 2018, 106, 187-196.	5.2	45
7	Effect of Mn doping concentration on structural, vibrational and magnetic properties of NiO nanoparticles. Advanced Powder Technology, 2018, 29, 2394-2403.	4.1	45
8	Insulator-metal transitions in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>T</mml:mi></mml:math> phase Cr-doped and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml:	3.2	38
9	phase undoped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> thin films. Physica		
10	Synthesis, physical, optical, structural and radiation shielding characterization of borate glasses: A focus on the role of SrO/Al2O3 substitution. Ceramics International, 2022, 48, 2124-2137.	4.8	37
11	Study of spin-phonon coupling and magnetic field induced spin reorientation in polycrystalline multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>G</mml:mi><mml:mi>d</mml:mi><mml:mi>F</mml:mi><mml:mi>e</mml:mi><mml:msub><m Materials Chemistry and Physics, 2017, 196, 205-212.	4.0	36
12	Spinâ€“phonon coupling in ordered double perovskites A2CoMnO6 (A=La, Pr, Nd) probed by micro-Raman spectroscopy. Solid State Communications, 2014, 194, 59-64.	1.9	35
13	Physical, optical and structural studies of copper-doped lead oxychloro borate glasses. Bulletin of Materials Science, 2018, 41, 1.	1.7	35
14	Effect of pressure and temperature on Raman scattering and an anharmonicity study of tin dichalcogenide single crystals. Solid State Communications, 2015, 201, 54-58.	1.9	33
15	Stabilization of metallic phase in V2O3 thin film. Applied Physics Letters, 2017, 110, .	3.3	33
16	Signature of Jahnâ€“Teller distortion and oxygen stoichiometry in Raman spectra of epitaxial LaMnO3+Î´ thin films. Journal of Applied Physics, 2008, 104, .	2.5	32
17	Modifier role of ZnO on the structural and transport properties of lithium boro tellurite glasses. Journal of Non-Crystalline Solids, 2019, 514, 35-45.	3.1	31
18	Direct visualization of first-order magnetic transition in La5/8â^'yPryCa3/8MnO3(y=0.45) thin films. Physical Review B, 2013, 87, .	3.2	29
	Effect of Mg doping on the improvement of photoluminescence and magnetic properties of NiO nanoparticles. Nano Express, 2020, 1, 020009.	2.4	29

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19	Effect of scandium substitution on magnetic and transport properties of the M-type barium hexaferrites. Journal of Alloys and Compounds, 2020, 815, 152467.	5.5	28
20	The effect of magnetic order and thickness in the Raman spectra of oriented thin films of LaMnO₃. Journal of Physics Condensed Matter, 2007, 19, 346232.	1.8	26
21	Synthesis, structural and photoluminescence properties of nano-crystalline Cu doped NiO. Materials Research Express, 2017, 4, 105027.	1.6	25
22	Role of V-V dimerization in the insulator-metal transition and optical transmittance of pure and doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml thin films. Physical Review B, 2020, 101, .	3.2	25
23	Temperature dependent Raman investigations of few-layered WS2 nanosheets. Solid State Communications, 2019, 298, 113626.	1.9	23
24	Environmental photochemistry by plasmonic semiconductor decorated GO nanocomposites: SERS detection and visible light driven degradation of aromatic dyes. Applied Surface Science, 2019, 473, 864-872.	6.1	23
25	Effect of strain on the phase separation and devitrification of the magnetic glass state in thin films of La_{5/8 â^'y}Pr_yCa_{3/8}MnO₃(y= 0.45). Journal of Physics Condensed Matter, 2010, 22, 176002.	1.8	22
26	Application of G-SERS for the efficient detection of toxic dye contaminants in textile effluents using gold/graphene oxide substrates. Journal of Molecular Liquids, 2019, 273, 203-214.	4.9	21
27	Enhanced Thermoelectric Performance of Novel Reaction Condition-Induced Bi₂S₃-Bi Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 37248-37257.	8.0	21
28	Enhancement of shielding ability using PbF2 in Fe-reinforced bismuth borate glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 23047-23065.	2.2	21
29	Spontaneous Reduction of Copper(II) to Copper(I) at Solidâ€“Liquid Interface. Journal of Physical Chemistry Letters, 2018, 9, 6364-6371.	4.6	19
30	Coexisting 1T/2H polymorphs, reentrant resistivity behavior, and charge distribution in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>â^'</mml:mo><mml:mi>hBN</mml:mi></mml:mrow 2D/2D composite thin films. Physical Review Materials, 2019, 3, .	2.4	19
31	Pressure and temperature dependence of Raman spectra and their anharmonic effects in Bi2Se3 single crystal. Physica B: Condensed Matter, 2014, 433, 72-78.	2.7	18
32	Enhanced thermoelectric property of nanostructured CaMnO3 by sol-gel hydrothermal method. Physica B: Condensed Matter, 2019, 575, 411707.	2.7	18
33	Amorphous Salts Solid Dispersions of Celecoxib: Enhanced Biopharmaceutical Performance and Physical Stability. Molecular Pharmaceutics, 2021, 18, 2334-2348.	4.6	18
34	Evidence of spin phonon coupling in magnetoelectric NiFe2O4/PMN-PT composite. Applied Physics Letters, 2013, 103, .	3.3	17
35	Spin-lattice coupling mediated giant magnetodielectricity across the spin reorientation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>FeCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	17
36	The effect of the addition of CaF₂ and PbF₂ on boro-tellurite glasses doped with chromium ions. Materials Research Express, 2019, 6, 125206.	1.6	17

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37	Structural correlations in the enhancement of ferroelectric property of Sr doped BaTiO₃. Journal of Physics Condensed Matter, 2020, 32, 445402.	1.8	16
38	Magnetic, ferroelectric, and spin phonon coupling studies of Sr3Co2Fe24O41 multiferroic Z-type hexaferrite. Journal of Applied Physics, 2016, 120, .	2.5	15
39	Evidence of structural modifications in the region around the broad dielectric maxima in the 30% Sn-doped barium titanate relaxor. Physical Review B, 2019, 100, .	3.2	15
40	Observation of magnetoelastic and magnetoelectric coupling in Sc doped BaFe₁₂O₁₉ due to spin-glass-like phase. Journal of Physics Condensed Matter, 2019, 31, 295701.	1.8	15
41	Revisiting eigen displacements of tetragonal BaTiO3: Combined first principle and experimental investigation. Physica B: Condensed Matter, 2022, 624, 413381.	2.7	15
42	Spinâ€“phonon coupling in HoCr_{1Ââ^'Âx}Fe_xO₃ (xÂ=Â0) Tj ETQq0 0 0 rgBT /	2.5	14
43	Low-temperature Raman, high magnetic field <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Fe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>57</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> MÃ¶ssbauer, and x-ray diffraction study of magnetodielectric coupling in polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GdFeO</mml:mi><mml:mn>3</mml:mn></mml:msub> / Physical Review B, 2019, 99, .	3.2	14
44	Coexistence of local structural heterogeneities and long-range ferroelectricity in Pb-free <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mn>1</mml:mn><mml:m Physical Review B, 2021, 103, .	3.2	14
45	Investigation of orthorhombic-to-tetragonal structural phase transition in (Ba1âˆ'xCax)(Zr0.05Ti0.95)O3 ferroelectric ceramics using micro-Raman scattering. Journal of Applied Physics, 2014, 115, .	2.5	13
46	Absence of low temperature phase transitions and enhancement of ferroelectric transition temperature in highly strained BaTiO3 epitaxial films grown on MgO Substrates. Journal of Applied Physics, 2015, 117, 134103.	2.5	13
47	Raman spectroscopic study of structural transformation in ordered double perovskites La2CoMnO6 bulk and epitaxial film. Solid State Communications, 2015, 224, 10-14.	1.9	13
48	Evidence of the Fano resonance in a temperature dependent Raman study of CaCu₃Ti₄O₁₂and SrCu₃Ti₄O₁₂. Journal of Physics Condensed Matter, 2012, 24, 252202.	1.8	12
49	Enhancement of the ferromagnetic metallic phase fraction by extrinsic disorder in phase separated La_{5/8âˆ'y}Pr_yCa_{3/8}MnO₃(y= 0.45) thin film. Journal of Physics Condensed Matter, 2013, 25, 175003.	1.8	12
50	Magnetodielectricity induced by coexisting incommensurate conical magnetic structure and cluster glass-like states in polycrystalline BaFe10In2O19. Journal of Alloys and Compounds, 2020, 825, 154141.	5.5	11
51	Spin-lattice coupling and complex thermal expansion in Ca2FeAlO5. Journal of Alloys and Compounds, 2018, 732, 358-362.	5.5	10
52	Detail investigations of SmFeO 3 under extreme condition. Materials Chemistry and Physics, 2018, 215, 393-403.	4.0	10
53	Effect of electric poling on structural, magnetic and ferroelectric properties of 0.8PbFe0.5Nb0.5O3-0.2BiFeO3 multiferroic solid solution. Ceramics International, 2019, 45, 13171-13178.	4.8	10
54	Correlation of dynamical disorder and oxy-ion diffusion mechanism in a Dy, W co-doped La₂Mo₂O₉ system: an electrolyte for IT-SOFCs. Dalton Transactions, 2020, 49, 13406-13419.	3.3	10

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55	Site Occupation and Magnetic Studies in Laâ€“Co-Substituted Barium Hexaferrite. IEEE Transactions on Magnetics, 2020, 56, 1-6.	2.1	10
56	Enhanced thermoelectric performance of solution-grown Bi2Te3 nanorods. Materials Today Energy, 2021, 21, 100700.	4.7	10
57	Fano resonance and relaxor behavior in Pr doped SrTiO3: A Raman spectroscopic investigation. Physica B: Condensed Matter, 2021, 620, 413265.	2.7	10
58	Evidence for cluster spin-glass like phase with longitudinal conical magnetic structure in Ga doped M-type barium hexaferrite, BaFe10Ga2O19. Journal of Magnetism and Magnetic Materials, 2021, 540, 168483.	2.3	10
59	Giant exchange bias in antiferromagnetic Pr₂CoFe_{0.5}Mn_{0.5}O₆: a structural and magnetic properties study. Journal Physics D: Applied Physics, 2022, 55, 365004.	2.8	10
60	Photo-induced insulatorâ€“metal transition probed by Raman spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 075603.	1.8	9
61	Emergence of metamagnetic transition, re-entrant cluster glass and spin phonon coupling in Tb₂CoMnO₆. Journal of Physics Condensed Matter, 2021, 33, 275802.	1.8	9
62	An x-ray absorption spectroscopy study of Niâ€“Mnâ€“Ga shape memory alloys. Journal of Physics Condensed Matter, 2013, 25, 046001.	1.8	8
63	Electron-phonon coupling in perovskites studied by Raman Scattering. Journal of Physics: Conference Series, 2016, 755, 012008.	0.4	8
64	Evidence of low-symmetry phases in pressure-dependent Raman spectroscopic study of BaTiO3. Journal of Materials Science, 2018, 53, 7224-7232.	3.7	8
65	Spin-phonon coupling mediated magneto-dielectricity in indium doped barium hexaferrite (BaFe10.5In1.5O19). Journal of Magnetism and Magnetic Materials, 2019, 492, 165717.	2.3	7
66	Symmetry breaking and spin lattice coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NdCrTiO</mml:mi><mml:mn>5</mml:mn></mml:msub>< Physical Review B, 2019, 100, .	3.2	7
67	Lattice dynamics and magnetic exchange interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GeCo</mml:mi><mml:mn>2</mml:mn></mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> : A spinel with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:m pyrochlore lattice. Physical Review B, 2021, 104, .	3.2	7
68	Investigation and fabrication of Cadmium Telluride (CdTe) single crystal as a photodetector. Physica B: Condensed Matter, 2021, 614, 413027.	2.7	7
69	Raman tensor and domain structure study of single-crystal-like epitaxial films of CaCu₃Ti₄O₁₂grown by pulsed laser deposition. Journal of Physics Condensed Matter, 2013, 25, 025902.	1.8	6
70	Hexagonal Sr0.6Ba0.4MnO3: Spin and dipole coupling via local structure. Journal of Alloys and Compounds, 2019, 796, 237-242.	5.5	6
71	Electric field induced structural, magnetic and ferroelectric properties of 0.6PbFe0.5Nb0.5O3-0.4BiFeO3 multiferroic solid solution. Ceramics International, 2020, 46, 27595-27600.	4.8	6
72	Interplay of spin, lattice, vibration, and charge degrees of freedom: Magnetoâ€dielectricity in Ca₃Mn₂O₇. Journal of the American Ceramic Society, 2020, 103, 3238-3248.	3.8	6

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73	Strain healing of spinâ€“orbit coupling:a cause for enhanced magnetic moment in epitaxial SrRuO₃ thin films. Journal of Physics Condensed Matter, 2020, 32, 305501.	1.8	6
74	Optical control of domain configuration through light polarization in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2022, 105, .	3.2	6
75	Controlling phase separation in La5/8â^'yPryCa3/8MnO3 (yâ€‰=â€‰0.45) epitaxial thin films by strain disorder. Applied Physics Letters, 2015, 106, 072401.	3.3	5
76	Strong magnetoelectric and spin phonon coupling in SmFeO3/PMN-PT composite. Applied Physics Letters, 2016, 109, 082902.	3.3	5
77	Effect of 120 MeV Ag ion irradiation on the structural and electrical properties of NiO/ZnO heterojunction. Materials Research Express, 2019, 6, 126449.	1.6	5
78	Spin phonon coupling in Mn doped HoFeO₃ compounds exhibiting spin reorientation behaviour. Journal of Physics Condensed Matter, 2020, 32, 095801.	1.8	5
79	Investigation on diffuse phase transition through Raman and dielectric properties of Pb(Fe0.5Nb0.5)O3 â€“ Pb(Co0.33Nb0.67)O3 solid solutions. Materials Chemistry and Physics, 2021, 267, 124678.	4.0	5
80	Unveiling the Role of VO₂ (B) Polymorph in the Insulatorâ€“Metal Transition of VO₂ (M1) Thin Films. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	5
81	Signature of Austenitic to Martensitic Phase Transition in Ni₂MnGa in Mn and Ni K-Edge XANES Spectra. Advanced Materials Research, 2008, 52, 175-180.	0.3	4
82	Competition and coexistence of polar and non-polar states in Sr_{1â^'x}Ca_xTiO₃: an investigation using pressure dependent Raman spectroscopy. Journal of Physics Condensed Matter, 2018, 30, 105401.	1.8	4
83	Spin dynamics in brownmillerite Ca2Fe1.2Al0.8O5: A temperature dependent neutron diffraction study. Ceramics International, 2018, 44, 19866-19871.	4.8	4
84	Enhanced zeta potential of polyol method synthesized PVP-capped Sb2S3 nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	4
85	Large nonlinear electrostrain and piezoelectric response in nonergodic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn mathvariant="normal">O</mml:mi><mml:mn>3<. Physical Review Materials, 2021, 5, .	2.4	4
86	Synthesis of Sn1â^'x NixO2 nanoparticles: Observation of room temperature structural, optical and magnetic behavior. Journal of Alloys and Compounds, 2022, 891, 161990.	5.5	4
87	Femtometer atomic displacement, the root cause for multiferroic behavior of CuO unearthed through polarized Raman spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 12LT01.	1.8	4
88	Influence of Fe substitution on structure and Raman spectra of La 0.67 Sr 0.33 MnO 3 : Experimental and density functional studies. Physica B: Condensed Matter, 2018, 541, 103-110.	2.7	3
89	Temperature Dependent Raman Spectroscopic Study of the Fe Doped La0.67Sr0.33MnO3 Prepared Using Ball Milling Method. Physics of the Solid State, 2019, 61, 618-626.	0.6	3
90	Griffiths phase-like behavior and origin of spin-phonon interaction in Eu0.75Y0.25MnO3. Journal of Magnetism and Magnetic Materials, 2019, 482, 38-43.	2.3	3

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91	Phonon scattering mechanism in van der Waals heterostructures comprising of MoS2 and WS2 nanosheets. Materials Today: Proceedings, 2021, 45, 4612-4618.	1.8	3
92	Electric field tuning of the Fano resonance in BaTiO₃. , 2021, , .		3
93	Local lattice distortions and magnetic properties of CdCr2Se4â^'xSx. Journal of Applied Physics, 2016, 120, 045107.	2.5	2
94	Evidence of iso-structural phase transition in high pressure Raman spectroscopic studies of CaCu 3 Ti 4 O 12. Solid State Communications, 2017, 251, 94-97.	1.9	2
95	Effect of 120 MeV Au⁹⁺ ion irradiation on the structure and surface morphology of ZnO/NiO heterojunction. Surface and Interface Analysis, 2018, 50, 954-961.	1.8	2
96	Temperature dependent phononic response of liquid phase exfoliated few layered WS2 nanosheets. AIP Conference Proceedings, 2019, , .	0.4	2
97	Re-normalization of lattice vibrations below magnetic transition probed by Raman spectroscopy. Physica B: Condensed Matter, 2020, 579, 411806.	2.7	2
98	Non-linear temperature dependent phononic response of epitaxial lanthanum nickelate thin film. Solid State Communications, 2020, 321, 114038.	1.9	2
99	Investigation of correlation between spin dynamics and lattice degree of freedom in Mott insulator Sr2IrO4. AIP Conference Proceedings, 2020, , .	0.4	2
100	Magnetoelastic coupling and spin contributions to entropy and thermal transport in biferroic yttrium orthochromite [*]. Journal of Physics Condensed Matter, 2021, 33, 125702.	1.8	2
101	Breaking of inversion symmetry in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>NdGa</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	2
102	Lattice assisted dielectric relaxation in four-layer Aurivillius Bi₅FeTi₃O₁₅ ceramic at low temperatures. Journal of Physics Condensed Matter, 2021, 33, 355803.	1.8	2
103	Tracing microscopic atomic displacements using polarized Raman spectroscopy: A case study on BaTiO3. Journal Physics D: Applied Physics, 0, , .	2.8	2
104	Magneto-structural correlation across the spin reorientation transition temperature in pure and Sm substituted TmFeO3: A temperature dependent Raman and synchrotron X-ray diffraction study. Journal of Alloys and Compounds, 2021, 885, 160985.	5.5	2
105	Study of local structure of Sr0.95Pr0.05TiO3 thin film: Absence of antiferrodistortive phase. AIP Conference Proceedings, 2020, , .	0.4	2
106	Reversible optical control of Fano resonance and domain configuration at room temperature in BaTiO3. Journal of Applied Physics, 2022, 131, 053102.	2.5	2
107	Influence of local structural distortions on magnetism and spin-phonon coupling of multiferroic spinel chalcogenide. Journal of Applied Physics, 2017, 121, 243905.	2.5	1
108	Heteroepitaxial growth of self-assembled BaTiO3-Fe2O3 nanostructures. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	1

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109	Investigation of electrical and magneto-transport properties in half doped cobaltite Eu0.5Sr0.5CoO3. AIP Conference Proceedings, 2019, , .	0.4	1
110	Insulator to metal transition in VO2 M1+B phase on silicon substrate. AIP Conference Proceedings, 2019, , .	0.4	1
111	Phonon invisibility driven by strong magneto-elastic coupling in AlFeO3 thin film. Journal of Applied Physics, 2019, 126, .	2.5	1
112	Spin reorientation transition and coupled spin-lattice dynamics of Sm0.6Dy0.4FeO3. Journal of Physics Condensed Matter, 2020, 32, 405807.	1.8	1
113	Structural and transport study of disordered double perovskite Pr2FeMnO6. AIP Conference Proceedings, 2020, , .	0.4	1
114	Influence of swift heavy ion irradiations on temperature dependent phononic behavior of epitaxial LaNiO3 thin film. Journal of Applied Physics, 2021, 130, .	2.5	1
115	Effect of spin reorientation on the dielectric and conductivity behavior of Ca2FeCoO5. Journal of Materials Science: Materials in Electronics, 2021, 32, 26955.	2.2	1
116	Temperature Dependent Phononic Response of Few Layered MoS2 Nanosheets. Journal of Nanoscience and Technology, 2018, 4, 546-548.	0.3	1
117	Insights into the conduction mechanism of magneto-dielectric BaFe10.5In1.5O19: an impedance spectroscopy and AC conductivity study. Journal of Materials Science: Materials in Electronics, 2022, 33, 4072.	2.2	1
118	Investigation of magnetic properties and converse magnetoelectric effect in the composite of doped barium hexaferrite with potassium niobate, 0.5BaFe10Sc2O19-0.5KNbO3 and 0.5BaFe10In2O19-0.5KNbO3. Physica B: Condensed Matter, 2022, 633, 413736.	2.7	1
119	Magnetism, spin-phonon coupling and Kitaev interaction in Mott insulator La2ZnIrO6 single crystal oxide. Ceramics International, 2022, 48, 29190-29196.	4.8	1
120	Strain control in self assembled growth of vertical nano structured heteroepitaxial thin films. AIP Conference Proceedings, 2017, , .	0.4	0
121	Pressure induced re-entrant order-disorder like structural phase transition in spinel ferrite nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	0
122	Phonon anomalies in magnetoelectric Cr2O3. AIP Conference Proceedings, 2019, , .	0.4	0
123	Dielectric and Raman spectroscopy measurements across structural phase transition in multiferroic HoFe3(BO3)4 single crystal. AIP Conference Proceedings, 2019, , .	0.4	0
124	Anomalous magnetism in half doped cobaltite Eu0.5Sr0Â·5CoO3. Ceramics International, 2020, 46, 3663-3667.	4.8	0
125	Experimental and Theoretical Vibrational Spectroscopic Analysis of Etoricoxib. Materials Today: Proceedings, 2020, 21, 1981-1990.	1.8	0
126	Strong trilinear coupling of phonon instabilities drives the avalanche-like hybrid improper ferroelectric transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrBi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	0

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127	Magnetic modulation enhanced magneto-dielectricity in CaMn7O12. AIP Conference Proceedings, 2020, , .	0.4	0