

Ganesan Vedachalaiyer

List of Publications by Year in descending order

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506
papers

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41258

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times ranked

9210
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#	ARTICLE	IF	CITATIONS
1	Preparation of MTMS based transparent superhydrophobic silica films by sol-gel method. Journal of Colloid and Interface Science, 2009, 332, 484-490.	5.0	217
2	Superhydrophobic silica films by sol-gel co-precursor method. Applied Surface Science, 2009, 256, 217-222.	3.1	190
3	Physical properties of ZnO thin films deposited at various substrate temperatures using spray pyrolysis. Physica B: Condensed Matter, 2010, 405, 2226-2231.	1.3	155
4	Anisotropic magnetic properties and giant magnetocaloric effect in antiferromagnetic MnO		

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19	Effect of Cd dopant on electrical and optical properties of ZnO thin films prepared by spray pyrolysis route. <i>Thin Solid Films</i> , 2012, 525, 49-55.	0.8	75
20	Magnetocaloric effect in HoMnO ₃ crystal. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	73
21	B-site bismuth doping effect on structural, magnetic and magnetotransport properties of La _{0.5} Ca _{0.5} Mn _{1-x} Bi _x O ₃ . <i>Ceramics International</i> , 2015, 41, 2637-2647.	2.3	73
22	Bandgap renormalization in titania modified nanostructured tungsten oxide thin films prepared by pulsed laser deposition technique for solar cell applications. <i>Journal of Applied Physics</i> , 2008, 104, 033515.	1.1	72
23	Effect of copper doping on the change in the optical absorption behaviour in NiO thin films. <i>Renewable Energy</i> , 2012, 46, 43-48.	4.3	69
24	Growth and characterization of indium oxide films. <i>Current Applied Physics</i> , 2008, 8, 120-127.	1.1	68
25	Nanostructured tungsten oxide thin films by the reactive pulsed laser deposition technique. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 637-649.	1.1	67
26	Synthesis and characterization of ZnO thin films for UV laser. <i>Applied Surface Science</i> , 2001, 174, 232-239.	3.1	66
27	Effect of substrate temperature on the physical properties of copper nitride films by r.f. reactive sputtering. <i>Surface and Coatings Technology</i> , 2001, 142-144, 1034-1039.	2.2	65
28	Quenching of photoconductivity in Fe doped CdS thin films prepared by spray pyrolysis technique. <i>Applied Surface Science</i> , 2008, 254, 7042-7048.	3.1	63
29	Effect of indium doping on zinc oxide films prepared by chemical spray pyrolysis technique. <i>Bulletin of Materials Science</i> , 2010, 33, 581-587.	0.8	62
30	XRD, SEM, AFM, HRTEM, EDAX and RBS studies of chemically deposited Sb ₂ S ₃ and Sb ₂ Se ₃ thin films. <i>Applied Surface Science</i> , 2002, 193, 1-10.	3.1	60
31	Effect of ITO buffer layers on the structural, optical and electrical properties of ZnO multilayer thin films prepared by pulsed laser deposition technique. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 68-74.	3.0	60
32	Dielectric properties of DC reactive magnetron sputtered Al ₂ O ₃ thin films. <i>Thin Solid Films</i> , 2012, 520, 2689-2694.	0.8	60
33	Effect of copper (Cu ²⁺) inclusion on the bioactivity and antibacterial behavior of calcium silicate coatings on titanium metal. <i>Journal of Materials Chemistry B</i> , 2014, 2, 846-858.	2.9	60
34	A study of microstructural and optical properties of nanocrystalline ceria thin films prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2011, 519, 2520-2526.	0.8	59
35	Effect of Co substitution on the magnetic properties of BiFeO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4084-4089.	1.0	59
36	Role of strain and microstructure in chemical solution deposited La _{0.7} Pb _{0.3} MnO ₃ manganite films: Thickness dependent swift heavy ions irradiation studies. <i>Radiation Physics and Chemistry</i> , 2013, 85, 173-178.	1.4	59

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37	Effect of precursor concentration on the properties of ITO thin films. Journal of Alloys and Compounds, 2008, 464, 387-392.	2.8	57
38	Preparation of nanocrystalline Sb doped PbS thin films and their structural, optical, and electrical characterization. Superlattices and Microstructures, 2014, 75, 601-612.	1.4	56
39	Transport and Magnetotransport Studies on Sol-Gel Grown Nanostructured $\text{La}_{0.7}\text{Pb}_{0.3}\text{MnO}_3$ Manganites. Journal of Nanoscience and Nanotechnology, 2009, 9, 5681-5686.	0.9	54
40	Optically transparent superhydrophobic TEOS-derived silica films by surface silylation method. Journal of Sol-Gel Science and Technology, 2010, 53, 208-215.	1.1	53
41	Nanostructured CrN thin films prepared by reactive pulsed DC magnetron sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 167, 17-25.	1.7	53
42	Effect of cobalt doping on microstructural and optical properties of nickel oxide thin films. Materials Science in Semiconductor Processing, 2014, 23, 42-49.	1.9	53
43	Influence of particle size and dielectric environment on the dispersion behaviour and surface plasmon in nickel nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 14096-14106.	1.3	53
44	Effect of Mn doping on the structural and optical properties of ZrO ₂ thin films prepared by sol-gel method. Thin Solid Films, 2014, 550, 199-205.	0.8	52
45	Transparent water repellent silica films by sol-gel process. Applied Surface Science, 2010, 256, 3624-3629.	3.1	51
46	Room temperature positive magnetoresistance and field effect studies of manganite-based heterostructure. Applied Physics A: Materials Science and Processing, 2012, 108, 733-738.	1.1	51
47	Growth and characterization of nano-structured Sn doped ZnO. Journal of Molecular Structure, 2012, 1022, 8-15.	1.8	51
48	Electronic excitation induced mass transport on 200 MeV $^{107}\text{Ag}^{14+}$ ion irradiated Si surface. Journal of Applied Physics, 2000, 87, 2742-2746.	1.1	50
49	Field-induced first-order to second-order magnetic phase transition in $\text{Sm}_{0.52}\text{Mn}_{0.48}\text{O}_2$. Physical Review B, 2008, 78, .	1.1	50
50	Magnetotransport of $\text{La}_{0.70}\text{Ca}_{0.3}\text{Sr}_x\text{MnO}_3(\text{Ag})$: A potential room temperature bolometer and magnetic sensor. Journal of Applied Physics, 2010, 107, .	1.1	50
51	Photoluminescence in laser ablated nanostructured indium oxide thin films. Journal of Alloys and Compounds, 2010, 489, 215-223.	2.8	50
52	Current-voltage characteristics of PLD grown manganite based $\text{ZnO}/\text{La}_{0.5}\text{Pr}_{0.2}\text{Sr}_{0.3}\text{MnO}_3/\text{SrNb}_{0.002}\text{Ti}_{0.998}\text{O}_3$ thin film heterostructure. Solid State Communications, 2012, 152, 34-37.	0.9	50
53	A novel method for the deposition of nanocrystalline Bi_2Se_3 , Sb_2Se_3 and $\text{Bi}_2\text{Se}_3/\text{Sb}_2\text{Se}_3$ thin films by SILAR. Applied Surface Science, 2001, 182, 413-417.	3.1	49
54	Physical properties of electron beam evaporated CdTe and CdTe:Cu thin films. Journal of Applied Physics, 2014, 116, .	1.1	49

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55	Magnetic and electrical studies on La _{0.4} Sm _{0.1} Ca _{0.5} MnO ₃ charge ordered manganite. Journal of Magnetism and Magnetic Materials, 2015, 381, 470-477.	1.0	49
56	High-energy heavy-ion induced physical and surface-chemical modifications in polycrystalline cadmium sulfide thin films. Applied Physics A: Materials Science and Processing, 2009, 94, 703-714.	1.1	48
57	Transport studies on La _{0.8} Pr _{0.2} SrMnO ₃ manganite films. Physica B: Condensed Matter, 2015, 465, 71-80.	1.3	48
58	A catalyst-free new polyol method synthesized hot-pressed Cu-doped Bi ₂ S ₃ nanorods and their thermoelectric properties. Nano Research, 2016, 9, 3291-3304.	5.8	46
59	Structural and optical properties of γ -alumina thin films prepared by pulsed laser deposition. Thin Solid Films, 2010, 518, 3898-3902.	0.8	45
60	Anomalous variation of the lattice parameter of a sample of YBa ₂ Cu ₃ O _{7-x} through the superconducting transition. Physical Review B, 1988, 38, 889-892.	1.1	44
61	Electroluminescence from heterojunctions of nanocrystalline CdS and ZnS with porous silicon. Journal of Applied Physics, 2002, 92, 2118-2124.	1.1	44
62	Sliding behavior of water drops on sol-gel derived hydrophobic silica films. Applied Surface Science, 2010, 256, 3259-3264.	3.1	44
63	Effect of post annealing treatment on electrochromic properties of spray deposited niobium oxide thin films. Electrochimica Acta, 2007, 52, 4899-4906.	2.6	42
64	Simple and precise thermoelectric power measurement setup for different environments. Review of Scientific Instruments, 2008, 79, 103907.	0.6	42
65	Studies on the structure optical and electrical properties of Zn-doped NiO thin films grown by spray pyrolysis. Optik, 2016, 127, 4661-4668.	1.4	42
66	Carrier recombination in Cu doped CdS thin films: Photocurrent and optical studies. Applied Surface Science, 2012, 258, 5086-5093.	3.1	41
67	Investigation of surface properties of Ar-plasma treated polyethylene terephthalate (PET) films. Nuclear Instruments & Methods in Physics Research B, 2012, 289, 34-38.	0.6	41
68	Preparation and characterization of transparent NiO thin films deposited by spray pyrolysis technique. Optik, 2014, 125, 6751-6756.	1.4	41
69	Microstructural, optical and spectroscopic studies of laser ablated nanostructured tantalum oxide thin films. Applied Surface Science, 2009, 255, 7126-7135.	3.1	40
70	Anomalous thermal expansion of Sb ₂ Te ₃ topological insulator. Applied Physics Letters, 2012, 100, 251912.	1.5	39
71	Charge transport mechanisms in sol-gel grown La _{0.7} Pb _{0.3} MnO ₃ /LaAlO ₃ manganite films. Physical Chemistry Chemical Physics, 2017, 19, 5163-5176.	1.3	39
72	Structural, spectroscopic and electrical studies of nanostructured porous ZnO thin films prepared by pulsed laser deposition. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 724-732.	2.0	38

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73	Electrical switching and topological thresholds in Ge-Te and Si-Te glasses. Applied Physics A: Materials Science and Processing, 2005, 81, 939-942.	1.1	37
74	Surface plasmon resonance in nanostructured Ag incorporated ZnS films. AIP Advances, 2015, 5, .	0.6	37
75	Do the grain boundaries of In_2S_3 thin films have a role in sub-band-gap photosensitivity to 632.8nm?. Journal of Applied Physics, 2008, 103, .	1.1	36
76	Ultrahydrophobic silica films by sol-gel process. Journal of Porous Materials, 2010, 17, 565-571.	1.3	36
77	Control on wetting properties of spin-deposited silica films by surface silylation method. Applied Surface Science, 2010, 256, 2115-2121.	3.1	36
78	Influence of substrate temperature on surface structure and electrical resistivity of the evaporated tin sulphide films. Applied Surface Science, 2006, 253, 1673-1676.	3.1	35
79	Enhanced critical parameters of nanocarbon doped MgB ₂ superconductor. Journal of Applied Physics, 2009, 106, .	1.1	35
80	Effect of silver incorporation in phase formation and band gap tuning of tungsten oxide thin films. Journal of Applied Physics, 2012, 112, .	1.1	35
81	Dielectric, magnetic, and thermodynamic properties of $\text{Y}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x=0.1$ and 0.2). Journal of Applied Physics, 2012, 112, .	1.1	35
82	Corrosion of annealed AISI 316 stainless steel in sodium environment. Journal of Nuclear Materials, 1998, 256, 69-77.	1.3	34
83	Influence of argon ambience on the structural, morphological and optical properties of pulsed laser ablated zinc sulfide thin films. Journal of Luminescence, 2012, 132, 944-952.	1.5	34
84	Correlation between electrical and magnetic properties of polycrystalline $\text{La}_{0.5}\text{Ca}_{0.5}\text{Mn}_{0.98}\text{Bi}_{0.02}\text{O}_3$. Journal of Magnetism and Magnetic Materials, 2016, 408, 116-120.	1.0	34
85	Temperature-dependent roughness of electronically excited InP surfaces. Journal of Applied Physics, 2001, 90, 5968-5972.	1.1	33
86	Colossal thermoelectric power in Gd-Sr manganites. Europhysics Letters, 2010, 91, 17008.	0.7	33
87	Study of microstructure and nanomechanical properties of Zr films prepared by pulsed magnetron sputtering. Applied Surface Science, 2011, 257, 9909-9914.	3.1	33
88	Synthesis and high temperature XRD studies of tantalum nitride thin films prepared by reactive pulsed dc magnetron sputtering. Journal of Alloys and Compounds, 2011, 509, 6400-6407.	2.8	33
89	Magnetic anisotropy in nanocrystalline Co-doped ZnO thin films. Chemical Physics Letters, 2010, 487, 97-100.	1.2	32
90	Study of site-disorder in epitaxial magneto-electric GaFeO ₃ thin films. Applied Physics Letters, 2013, 102, 212401.	1.5	32

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91	Colossal thermoelectric power in charge ordered lanthanum calcium manganites (La _{0.5} Ca _{0.5} MnO ₃). Journal of Applied Physics, 2014, 116, .	1.1	32
92	Photoconductivity in Cd _{1-x} MnxS thin films prepared by spray pyrolysis technique. Solar Energy Materials and Solar Cells, 2008, 92, 1646-1651.	3.0	31
93	Study of magnetic iron nitride thin films deposited by high power impulse magnetron sputtering. Surface and Coatings Technology, 2015, 275, 264-269.	2.2	30
94	Photoluminescence and I-V characteristics of a CdS-nanoparticles-porous-silicon heterojunction. Nanotechnology, 2001, 12, 290-294.	1.3	29
95	AFM study of swift gold ion irradiated silicon. Nuclear Instruments & Methods in Physics Research B, 2002, 187, 220-230.	0.6	29
96	Room temperature chemical synthesis of lead selenide thin films with preferred orientation. Applied Surface Science, 2006, 253, 930-936.	3.1	29
97	Influence of SHI irradiation on the structure and surface topography of CdTe thin films on flexible substrate. Journal of Materials Science: Materials in Electronics, 2007, 18, 1093-1098.	1.1	29
98	Physical property characterization of bulk MgB ₂ superconductor. European Physical Journal B, 2008, 62, 281-294.	0.6	29
99	Influence of oxygen partial pressure on the properties of pulsed laser deposited nanocrystalline zirconia thin films. Applied Surface Science, 2011, 257, 8506-8510.	3.1	29
100	Tuning of TCO properties of ZnO by silver addition. Superlattices and Microstructures, 2014, 67, 97-109.	1.4	29
101	Effect of Cu-doping on the morphology of ZnTe films electrodeposited from nonaqueous bath. Thin Solid Films, 1998, 324, 78-84.	0.8	28
102	Effect of disorder on the exponent in the coherence region in high temperature superconductors. Physica C: Superconductivity and Its Applications, 2006, 443, 61-68.	0.6	28
103	Critical behavior, universal magnetocaloric, and magnetoresistance scaling of MnSi. Physical Review B, 2017, 95, .	1.1	28
104	Evidence of plastic flow and recrystallization phenomena in swift (~ 100 MeV) Si ⁷⁺ ion irradiated silicon. Nuclear Instruments & Methods in Physics Research B, 2004, 222, 491-496.	0.6	27
105	Synthesis, characterization and hydrogenation of ZrFe _{2-x} Ni _x ZrFe _{2-x} Ni _x (x=0.2,0.4,0.6,0.8) alloys. International Journal of Hydrogen Energy, 2007, 32, 3965-3971.	3.8	27
106	Magneto-transport studies of FeSe _{0.9-x} M _x (M = Si, Sb). Superconductor Science and Technology, 2011, 24, 045011.	1.8	27
107	In-situ study of magnetic thin films on nanorippled Si (100) substrates. Applied Surface Science, 2012, 258, 4116-4121.	3.1	27
108	Ion track diameter in fullerene C ₇₀ thin film using Raman active vibrational modes of C ₇₀ molecule. Vacuum, 2016, 123, 35-41.	1.6	27

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109	Electrochemical deposition and characterization of CoFe ₂ O ₄ thin films. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 85-94.	0.8	26
110	Quantum magnetoresistance of the PrFeAsO oxypnictide. Applied Physics Letters, 2011, 98, .	1.5	26
111	Influence of process parameters on surface plasmon resonance characteristics of densely packed gold nanoparticle films grown by pulsed laser deposition. Applied Surface Science, 2012, 258, 4898-4905.	3.1	26
112	Characterization and hydrogenation of CeNi ₅ ~xCrx (x=0, 1, 2) alloys. Journal of Alloys and Compounds, 2007, 430, 165-169.	2.8	25
113	Optimization of the distance between source and substrate for device-grade SnS films grown by the thermal evaporation technique. Journal of Physics Condensed Matter, 2007, 19, 306003.	0.7	25
114	Swift heavy ion induced modification in dielectric and microhardness properties of polymer composites. Polymer Degradation and Stability, 2008, 93, 1088-1093.	2.7	25
115	Thermal expansion of nanocrystalline boron carbide. Ceramics International, 2012, 38, 3723-3728.	2.3	25
116	Microstructure and optical properties of Gd ₂ O ₃ thin films prepared by pulsed laser deposition. Surface and Coatings Technology, 2015, 262, 56-63.	2.2	25
117	Specific heat and magnetocaloric effect studies in multiferroic YMnO ₃ . Journal of Thermal Analysis and Calorimetry, 2015, 119, 1191-1198.	2.0	25
118	Investigation of optical and microstructural properties of RF magnetron sputtered PTFE films for hydrophobic applications. Applied Surface Science, 2016, 385, 289-298.	3.1	25
119	Effect of annealing on the structural, optical and electrical properties of ZnO thin films by spray pyrolysis. Indian Journal of Physics, 2011, 85, 1381-1391.	0.9	24
120	Low temperature thermoelectric properties of Cu intercalated TiSe ₂ : a charge density wave material. Applied Physics A: Materials Science and Processing, 2013, 111, 465-470.	1.1	24
121	Surface plasmon resonances of Ag-Au alloy nanoparticle films grown by sequential pulsed laser deposition at different compositions and temperatures. Journal of Applied Physics, 2015, 117, .	1.1	24
122	Application of polymer electrolyte based hydrogen sensor to study corrosion of carbon steel in acid medium. Corrosion Science, 2001, 43, 1865-1875.	3.0	23
123	Novel electrochemical process for the deposition of nanocrystalline NiFe ₂ O ₄ thin films. Journal of Physics Condensed Matter, 2004, 16, 773-784.	0.7	23
124	Determination of the thermodynamic stability of TiB ₂ . Journal of Alloys and Compounds, 2010, 491, 747-752.	2.8	23
125	Influence of europium oxide doping on the structural and optical properties of pulsed laser ablated barium tungstate thin films. Journal of Alloys and Compounds, 2011, 509, 2745-2752.	2.8	23
126	Wetting behavior of high energy electron irradiated porous superhydrophobic silica films. Applied Surface Science, 2011, 257, 3027-3032.	3.1	23

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127	Carrier induced magnetism in dilute Fe doped Ge _{1-x} Sb _x thin films. Materials Chemistry and Physics, 2013, 143, 330-335.	2.0	23
128	Spin-glass like ground state and observation of exchange bias in Mn _{0.8} Fe _{0.2} NiGe alloy. Europhysics Letters, 2014, 108, 17012.	0.7	23
129	Fabrication and characterization of TiO ₂ /SiO ₂ based Bragg reflectors for light trapping applications. Results in Physics, 2017, 7, 2271-2276.	2.0	23
130	Low temperature electrical resistivity of cupric telluride (CuTe) thin films. Physica Status Solidi (B): Basic Research, 2008, 245, 77-81.	0.7	22
131	Resistive broadening in sulfur doped FeTe. Superconductor Science and Technology, 2010, 23, 075015.	1.8	22
132	Investigation of weak itinerant ferromagnetism and critical behavior of Y ₂ Ni ₇ . Physical Review B, 2011, 84, .	1.1	22
133	Dynamic scaling in growth of platinum films on Si(100). Solid State Communications, 2000, 114, 377-381.	0.9	21
134	Investigations of the electrical properties in CuInSe ₂ and the related ordered vacancy compounds. Semiconductor Science and Technology, 2004, 19, 798-806.	1.0	21
135	Electron beam evaporated molybdenum oxide films: a study of elemental and surface morphological properties. Smart Materials and Structures, 2005, 14, 1204-1209.	1.8	21
136	Growth dynamics of pulsed laser deposited indium oxide thin films: a substrate dependent study. Applied Surface Science, 2010, 256, 7091-7095.	3.1	21
137	Structural, optical, electrical and low temperature thermoelectric properties of degenerate polycrystalline Cu ₇ S ₄ thin films. Physica Status Solidi (B): Basic Research, 2014, 251, 689-696.	0.7	21
138	Deposition and characterization of spray pyrolysed p-type Cu ₂ SnS ₃ thin film for potential absorber layer of solar cell. Physica B: Condensed Matter, 2018, 538, 8-12.	1.3	21
139	Analysis of CREVONA sodium loop material. Journal of Nuclear Materials, 2003, 312, 174-180.	1.3	20
140	Effect of Zinc Oxide Doping on the Structural and Optical Characterization of Nanostructured Molybdenum Oxide Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 5254-5261.	0.9	20
141	Sub-micrometer thick CuInSe ₂ films for solar cells using sequential elemental evaporation. Solar Energy, 2009, 83, 964-968.	2.9	20
142	Tuning of magnetic transition temperatures in nanoparticles of CoCr ₂ O ₄ multiferroic by B-site mixing. Materials Research Bulletin, 2014, 54, 78-83.	2.7	20
143	Studies on the brush plated SnS thin films. Journal of Materials Science Letters, 2001, 20, 381-383.	0.5	19
144	Hydrogenation behaviour of Ce-based AB ₅ intermetallic compounds. Journal of Alloys and Compounds, 2007, 440, 84-88.	2.8	19

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145	Experimental investigations of flow through conical diffusers with and without wake type velocity distortions at inlet. <i>Experimental Thermal and Fluid Science</i> , 2007, 32, 133-157.	1.5	19
146	The magnetoresistance of a $\text{PrFeAsO}_{1-x}\text{F}_x$ superconductor. <i>Superconductor Science and Technology</i> , 2009, 22, 095015.	1.8	19
147	Effect of thermal annealing on the structural and optical properties of nanostructured zinc oxide thin films prepared by pulsed laser ablation. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 74-78.	3.0	19
148	Synthesis of nanocrystalline boron carbide from boric acid-sucrose gel precursor. <i>Journal of Materials Science</i> , 2012, 47, 1710-1718.	1.7	19
149	Precursor state of skyrmions in MnSi: a heat capacity study. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 184-186.	1.2	19
150	Changes in in-plane electrical conductivity of PEDOT:PSS thin films due to electric field induced dipolar reorientation. <i>RSC Advances</i> , 2015, 5, 86393-86401.	1.7	19
151	Reflectance modulation using $\text{SiO}_2/\text{TiO}_2$ multilayer structures prepared by sol-gel spin coating process for optical applications. <i>Superlattices and Microstructures</i> , 2017, 111, 1099-1103.	1.4	19
152	Nitrogen evolution from copper nitride films by MeV ion impact. <i>Radiation Effects and Defects in Solids</i> , 2001, 154, 151-163.	0.4	18
153	Structural, optical and electrical properties of chemically deposited copper selenide films. <i>Bulletin of Materials Science</i> , 2009, 32, 37-42.	0.8	18
154	Observation of large-Dmagnetic phase in $\text{Sr}_3\text{NiPtO}_6$. <i>Physical Review B</i> , 2010, 82, .	1.1	18
155	Significance of Al on the morphological and optical properties of $\text{Ti}_{1-x}\text{Al}_x\text{N}$ thin films. <i>Materials Chemistry and Physics</i> , 2011, 130, 1033-1037.	2.0	18
156	Strong electron-phonon coupling and multiband effects in the superconducting $\text{Mo}_{1-x}\text{Re}_x$ alloys. <i>New Journal of Physics</i> , 2015, 17, 053003.	1.2	18
157	Constitutive modelling of transient and steady state creep behaviour of type 316LN austenitic stainless steel. <i>Mechanics of Materials</i> , 2019, 137, 103122.	1.7	18
158	Enhanced thermoelectric property of nanostructured CaMnO_3 by sol-gel hydrothermal method. <i>Physica B: Condensed Matter</i> , 2019, 575, 411707.	1.3	18
159	Microstructural study of iron nitride thin films deposited by ion beam sputtering. <i>Vacuum</i> , 2001, 60, 395-399.	1.6	17
160	Structure dependent electronic sputtering of a-C:H films by swift heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 190, 164-168.	0.6	17
161	Ellipsometric studies on cupric telluride thin films. <i>Vacuum</i> , 2007, 82, 72-77.	1.6	17
162	Synthesis of SnO_2 nanostructures by ultrasonic-assisted sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 69, 617-624.	1.1	17

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163	Seebeck coefficient study on Mn-doped $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1999, 59, 7178-7183.	1.1	16
164	Molecular packing in cadmium and zinc arachidate LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 75-81.	2.3	16
165	Structural morphology of amorphous conducting carbon film. Bulletin of Materials Science, 2005, 28, 609-615.	0.8	16
166	Surface studies on 100MeV Ag^{7+} ions and 150MeV Ni^{11+} ions irradiated nanocrystalline ferrite thin films. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 34-39.	0.6	16
167	Magnetism, upper critical field and thermoelectric power of the magnetosuperconductor $\text{RuSr}_2\text{Eu}_{1.5}\text{Ce}_{0.5}\text{Cu}_2\text{O}_{10}$. Journal of Physics Condensed Matter, 2006, 18, 2563-2571.	0.7	16
168	Surface modification study of low energy electron beam irradiated polycarbonate film. Applied Surface Science, 2007, 253, 5985-5991.	3.1	16
169	Synthesis, Structural, Electrical and Magnetic Studies of Ni- Ferrite Nanoparticles. Physics Procedia, 2013, 49, 58-66.	1.2	16
170	Spin reorientation and disordered rare earth magnetism in $\text{Ho}_2\text{FeCoO}_6$. Journal of Physics Condensed Matter, 2017, 29, 475804.	0.7	16
171	Effect of Zn/Sn molar ratio on the microstructural and optical properties of $\text{Cu}_{2-x}\text{Zn}_x\text{Sn}_4$ thin films prepared by spray pyrolysis technique. Physica B: Condensed Matter, 2018, 533, 22-27.	1.3	16
172	Weak antilocalization in Sb_2Te_3 nano-crystalline topological insulator. Applied Surface Science, 2019, 496, 143654.	3.1	16
173	Enhanced thermoelectric performance of nanostructured manganese telluride via antimony doping. Journal of Alloys and Compounds, 2020, 836, 155374.	2.8	16
174	SEM and AFM studies of dip-coated CuO nanofilms. Microscopy Research and Technique, 2013, 76, 58-65.	1.2	15
175	Specific heat and magnetocaloric studies of hexagonal $\text{Yb}_x\text{Er}_x\text{MnO}_3$. Materials Letters, 2015, 161, 419-422.	1.3	15
176	Impurity band conduction in $\text{FeSi}_{1-x}\text{Al}_x$. Journal of Physics Condensed Matter, 2008, 20, 325238.	0.7	14
177	Frozen magnetostructural order in Gd_5Si_4 . A calorimetric study. Physical Review B, 2009, 79, .		
178	Surface free energy analysis for bipolar pulsed argon plasma treated polymer films. Journal of Physics: Conference Series, 2010, 208, 012107.	0.3	14
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