

# Ambesh Dixit

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

162 papers	1,800 citations	23 h-index	34 g-index
174 ext. papers	2,317 ext. citations	3.2 avg, IF	5.67 L-index

#	Paper	IF	Citations
162	Ruddlesden-Popper 2D perovskites of type (CH <sub>3</sub> CHNH)(CHNH)PbI (n = 1-4) for optoelectronic applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2176	4.9	5
161	Multiferroic, optical and magneto-dielectric properties with enhanced magneto-impedance characteristic of KBiFe <sub>2</sub> O <sub>5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 893, 162225	5.7	0
160	Ultra-low lattice thermal conductivity and high figure of merit for Janus MoSeTe monolayer: a peerless material for high temperature regime thermoelectric devices. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 7012-7022	4.3	0
159	All oxide sol-gel assisted SiO <sub>2</sub> /(ZnO/Sn-In <sub>2</sub> O <sub>3</sub> ) <sub>n</sub> /SS dielectric/conducting multilayer based spectrally selective coating on Stainless Steel tubes for potential solar thermal application. <i>Solar Energy</i> , <b>2022</b> , 236, 561-568	6.8	
158	Near-infrared photodetector performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> in the metal-semiconductor-metal configuration: Theoretical studies. <i>Optik</i> , <b>2022</b> , 169385	2.5	0
157	Study of CNT Intercalated Bi <sub>2</sub> O <sub>3</sub> /PVDF Composite for Super Capacitors Applications. <i>Macromolecular Symposia</i> , <b>2021</b> , 399, 2100022	0.8	0
156	Highly textured (100)-oriented AlN thin films using thermal atomic layer deposition and their electrical properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	
155	DFT Studies on Electronic and Optical Properties of Inorganic CsPbI <sub>3</sub> Perovskite Absorber for Solar Cell Application. <i>Springer Proceedings in Energy</i> , <b>2021</b> , 1199-1206	0.2	2
154	Gamma Radiation Dosimetry Characteristics of Hydrothermally Synthesized TiO <sub>2</sub> Nanorods. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 4090-4095	1.9	1
153	Influence of Ca doping on X-ray photoelectron core-level spectra of magnetoelectric bulk BiFeO <sub>3</sub> . <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 798-807	1.5	0
152	Zinc oxide/polystyrene composite based scintillator for alpha particle monitoring. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 127, 105692	4.3	4
151	Impedance engineered microwave absorption properties of Fe-Ni/C core-shell enabled rubber composites for X-band stealth applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159360	5.7	5
150	Enhancing thermoelectric properties of Janus WSe monolayer by inducing strain mediated valley degeneracy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157304	5.7	17
149	Structural characterization of polycrystalline thin films by X-ray diffraction techniques. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 1341-1368	2.1	8
148	Capacity Fading in Li <sub>2</sub> FeSiO <sub>4</sub> Cathode Material: Intrinsic or Extrinsic. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 1059-1066	1.9	0
147	Heterostructure AZO/WSeTe/W(S/Se) <sub>2</sub> as an Efficient Single Junction Solar Cell with Ultrathin Janus WSeTe Buffer Layer. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4355-4362	3.8	3
146	Inorganic Lead-Free Cs <sub>2</sub> AuBiCl <sub>6</sub> Perovskite Absorber and Cu <sub>2</sub> O Hole Transport Material Based Single-Junction Solar Cells with 22.18% Power Conversion Efficiency. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2000224	3.5	9

145	Environmental Degradation of Glass Fiber-Reinforced Nanocomposites with Self-Healing Reinforcement in Polymer Matrix for Wind Turbine Blade Application. <i>Transactions of the Indian Institute of Metals</i> , <b>2021</b> , 74, 3119	1.2	1
144	Gamma radiation induced microwave absorption properties of Ultra-thin barium titanate (BaTiO <sub>3</sub> ) ceramic tiles over X-Band (8.2–12.4GHz). <i>Ceramics International</i> , <b>2021</b> , 47, 22397-22403	5.1	1
143	Theoretical DFT studies of Cu <sub>2</sub> HgSnS <sub>4</sub> absorber material and Al:ZnO/ZnO/CdS/Cu <sub>2</sub> HgSnS <sub>4</sub> /Back contact heterojunction solar cell. <i>Solar Energy</i> , <b>2021</b> , 225, 802-813	6.8	5
142	Evolution of hematite and/or magnetite iron phases with thermal heating in ordinary chondrites: A generic characteristic. <i>Journal of Earth System Science</i> , <b>2021</b> , 130, 1	1.8	
141	Superiority of activated graphite/CuO composite electrode over Platinum based electrodes as cathode in algae assisted microbial fuel cell. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101891	7	1
140	Energy for rural development <b>2021</b> , 181-222		
139	BiFeO <sub>3</sub> Coupled Polysulfide Trapping in C/S Composite Cathode Material for Li-S Batteries as Large Efficiency and High Rate Performance. <i>Energies</i> , <b>2021</b> , 14, 8362	3.1	1
138	Rare-Earth Doped Iron Oxide Nanostructures for Cancer Theranostics: Magnetic Hyperthermia and Magnetic Resonance Imaging. <i>Small</i> , <b>2021</b> , e2104855	11	1
137	Magnetic entropy change in a non-collinear weak ferromagnetic YCrO <sub>3</sub> . <i>Vacuum</i> , <b>2020</b> , 179, 109519	3.7	2
136	Emergence of two-magnon modes below spin-reorientation transition and phonon-magnon coupling in bulk BiFeO <sub>3</sub> : An infrared spectroscopic study. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 154754	5.7	4
135	Structural evolution of chemically deposited binary stacks of Sb <sub>2</sub> S <sub>3</sub> -CuS to phase-pure CuSbS <sub>2</sub> thin films and evaluation of device parameters of CuSbS <sub>2</sub> /CdS heterojunction. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 5881-5894	4.5	4
134	NiF <sub>2</sub> as an efficient electrode material with high window potential of 1.8V for high energy and power density asymmetric supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 873, 114379	4.1	11
133	1T-Phase Titanium Disulfide Nanosheets for Sensing H <sub>2</sub> S and O <sub>2</sub> . <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3382-3394	5.6	17
132	Interfacial layer assisted, forming free, and reliable bipolar resistive switching in solution processed BiFeO <sub>3</sub> thin films. <i>AIP Advances</i> , <b>2020</b> , 10, 025110	1.5	8
131	Large scale re-producible synthesis and magnetic properties of Ni/graphite core-shell nanostructured materials. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 501, 166444	2.8	4
130	Structural and electrochemical investigation of lithium ions insertion processes in polyanionic compounds of lithium and transition metals. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 860, 113894	4.1	12
129	Simulation studies on photovoltaic response of ultrathin CuSb(S/Se) <sub>2</sub> ternary compound semiconductors absorber-based single junction solar cells. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3724-3736	4.5	5
128	Ag <sup>8+</sup> ion irradiation modulated structural, microstructural, defect, and magnetization in ZnO thin films. <i>Vacuum</i> , <b>2020</b> , 176, 109342	3.7	2

127	A review on quantum dot sensitized solar cells: Past, present and future towards carrier multiplication with a possibility for higher efficiency. <i>Solar Energy</i> , <b>2020</b> , 203, 210-239	6.8	52
126	RF Sputtered MoO <sub>3</sub> Thin Film on Si (100) for Gas Sensing Applications. <i>Defence Science Journal</i> , <b>2020</b> , 70, 505-510	1.4	3
125	Issue and Challenges with High-Temperature Solar Selective Material for Solar Thermal Application. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 99-108	0.5	0
124	Graphene modulated LiMn <sub>1.5</sub> Ni <sub>0.4</sub> Cr <sub>0.1</sub> O <sub>4</sub> spinel cathode for lithium ion battery. <i>Nano Express</i> , <b>2020</b> , 1, 020028	2	
123	Fabrication and Thermal Performance Evaluation of Metastable Supercooled Liquid PCM Based Heat Pack. <i>Energy, Environment, and Sustainability</i> , <b>2020</b> , 277-282	0.8	
122	Rare Earth Oxides Based Composites for High Voltage Supercapacitors Applications: A Short Review. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 1-10	0.5	3
121	Growth of sillenite BiFeO <sub>3</sub> single crystals: structural, thermal, optical, photocatalytic features and first principle calculations. <i>Scientific Reports</i> , <b>2020</b> , 10, 22052	4.9	8
120	Ultrahigh sensitivity with excellent recovery time for NH <sub>3</sub> and NO in pristine and defect mediated Janus WSSe monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13903-13922	3.6	22
119	Structural, microstructure, optical, and electrical properties of Ti-doped CaSnO <sub>3</sub> prepared by Sol-Gel chemical route. <i>Physica Scripta</i> , <b>2020</b> , 95, 105807	2.6	4
118	Defects and light elements (Li, Be, B, C, O and F) driven d <sub>0</sub> magnetism in InN monolayer. <i>Vacuum</i> , <b>2020</b> , 181, 109720	3.7	1
117	Onset of inverse magnetocaloric effect in multiferroic FeVO <sub>4</sub> below the antiferromagnetic transition temperature TN <sub>1</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 515, 167300	2.8	
116	Rietveld refinement, optical, dielectric and ac conductivity studies of Ba-doped SrSnO <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 16838-16848	2.1	7
115	LiFePO <sub>4</sub> -Based Composite Electrode Material: Synthetic Approaches, Peculiarities of the Structure, and Regularities of Ionic Transport Processes. <i>Russian Journal of Electrochemistry</i> , <b>2019</b> , 55, 719-737	1.2	16
114	Corrosion resists Ni, Co co-pigmented nanoporous anodized alumina as spectral selective coating structure for solar thermal applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 810, 151833	5.7	3
113	Positive effect of surface modification with titanium carbosilicide on performance of lithium-transition metal phosphate cathode materials. <i>Monatshefte für Chemie</i> , <b>2019</b> , 150, 489-498	1.4	21
112	Impact of excess and disordered Sn sites on Cu <sub>2</sub> ZnSnS <sub>4</sub> absorber material and device performance: A <sup>119</sup> Sn Mössbauer study. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 225, 410-416	4.4	12
111	Improved rectification behaviour in ZnO nanorods homojunction by suppressing Li donor defects using Li-Ni co-doping. <i>Superlattices and Microstructures</i> , <b>2019</b> , 132, 106154	2.8	1
110	Defect engineered MoSSe Janus monolayer as a promising two dimensional material for NO <sub>2</sub> and NO gas sensing. <i>Applied Surface Science</i> , <b>2019</b> , 490, 204-219	6.7	38

109	Strain-driven thermodynamic stability and electronic transitions in ZnX (X = O, S, Se, and Te) monolayers. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 082540	2.5	18
108	Complex magnetic structure and magnetocapacitance response in a non-oxide NiF system. <i>Scientific Reports</i> , <b>2019</b> , 9, 3200	4.9	6
107	Light Emitting Diode and UV Photodetector Characteristics of Solution Processed n-ZnO Nanorods/p-Si Heterostructures. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 1223-1229	0.2	
106	Facile synthesis of Cu <sub>2</sub> ZnGeS <sub>4</sub> thin films from binary metal sulfides and study of their physical properties. <i>Thin Solid Films</i> , <b>2019</b> , 676, 68-74	2.2	8
105	Exchange Bias Enhancement and Magnetic Proximity Effect in FeVO <sub>4</sub> -Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 3297-3303	1.9	1
104	Strain Modulated Optoelectronic Properties of CdO Monolayer. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 3963-3969	1.9	10
103	Transition Metal Doped ZnS Monolayer: The First Principles Insights. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 49-56	0.2	1
102	Band Gap Engineering of CdTe Quantum Dots by Hg Alloying in Infrared Region. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 1231-1234	0.2	
101	Efficient Alpha Radiation Detector using Low Temperature Hydrothermally Grown ZnO:Ga Nanorod Scintillator. <i>Scientific Reports</i> , <b>2019</b> , 9, 11354	4.9	11
100	Neutron diffraction studies on temperature driven crystallographic anisotropy in FeVO <sub>4</sub> multiferroic: Evidence of strong magnetostructural correlations <b>2019</b> ,		1
99	Ultrathin Janus WSe buffer layer for W(S/Se) <sub>2</sub> absorber based solar cells: A hybrid, DFT and macroscopic, simulation studies. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 201, 110076	6.4	23
98	W/SS thin film as high temperature infrared reflector for solar thermal applications: intrinsic properties and impact of residual oxygen. <i>Materials Research Express</i> , <b>2019</b> , 6, 106408	1.7	2
97	Nanotechnology for Defence Applications <b>2019</b> ,		5
96	Glassy magnetic cronstedtite signatures in Mukundpura CM2 chondrite based on magnetic and Mössbauer studies. <i>Meteoritics and Planetary Science</i> , <b>2019</b> , 54, 2902-2907	2.8	2
95	Effect of Magnetic Ordering on Phonon Raman Spectra in Magnetic Systems. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 289-299	0.2	
94	Anomalous magnetic behavior and complex magnetic structure of proximate LaCrO <sub>3</sub> LaFeO <sub>3</sub> system. <i>Materials Research Express</i> , <b>2019</b> , 6, 126119	1.7	
93	Point defects induced magnetism in CdO monolayer: A theoretical study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 469, 279-288	2.8	23
92	Theoretical studies on structural, electronic and optical properties of kesterite and stannite Cu <sub>2</sub> ZnGe(S/Se) <sub>4</sub> solar cell absorbers. <i>Computational Condensed Matter</i> , <b>2019</b> , 19, e00334	1.7	3

91	Thermodynamic stability and optoelectronic properties of Cu(Sb/Bi)(S/Se) <sub>2</sub> ternary chalcogenides: Promising ultrathin photoabsorber semiconductors. <i>Solar Energy</i> , <b>2019</b> , 177, 679-689	6.8	8
90	A low temperature water-cooled radiation calorimeter for estimation of concentrated solar irradiance. <i>Solar Energy</i> , <b>2018</b> , 167, 194-209	6.8	2
89	Nanostructured zinc titanate wide band gap semiconductor as a photoelectrode material for quantum dot sensitized solar cells. <i>Solar Energy</i> , <b>2018</b> , 163, 338-346	6.8	16
88	Enhancement in photocatalytic response of inorganic-organic BiVO <sub>4</sub> /C <sub>3</sub> N <sub>4</sub> composite system. <i>Materials Research Express</i> , <b>2018</b> , 5, 024001	1.7	4
87	Cation modified A <sub>2</sub> (Ba, Sr and Ca) ZnWO <sub>6</sub> cubic double perovskites: A theoretical study. <i>Computational Condensed Matter</i> , <b>2018</b> , 14, 27-35	1.7	11
86	Electrical and impedance spectroscopy analysis of sol-gel derived spin coated Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cell. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 013101	2.5	19
85	Transition Metal-Based Spectrally Selective Coatings Using In-House Developed Spray System. <i>Springer Proceedings in Energy</i> , <b>2018</b> , 145-155	0.2	
84	Enhancement in electrical and magnetodielectric properties of Ca- and Ba-doped BiFeO <sub>3</sub> polycrystalline ceramics. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 782-788	3.8	14
83	Thermal Conductivity Enhancement of Myristic Acid Using Exfoliated Graphite for Thermal Energy Storage Applications. <i>Springer Proceedings in Energy</i> , <b>2018</b> , 159-167	0.2	1
82	Effect of Growth Condition on Mechanical Properties of Zirconium Carbonitride Absorber-Based Spectrally Selective Coatings. <i>Springer Proceedings in Energy</i> , <b>2018</b> , 137-143	0.2	
81	Microbial fuel cell powered by lipid extracted algae: A promising system for algal lipids and power generation. <i>Bioresource Technology</i> , <b>2018</b> , 247, 520-527	11	60
80	Design criteria of transition metal dopants in TiO <sub>2</sub> /CdS photoelectrode for enhanced photovoltaic response. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 122, 154-161	3.9	4
79	Strain-mediated stability and electronic properties of WS <sub>2</sub> , Janus WSSe and WSe <sub>2</sub> monolayers. <i>Superlattices and Microstructures</i> , <b>2018</b> , 122, 268-279	2.8	29
78	Ni/graphitic carbon core-shell nanostructure-based light weight elastomeric composites for Ku-band microwave absorption applications. <i>CrystEngComm</i> , <b>2018</b> , 20, 4630-4640	3.3	20
77	Limiting efficiency factors and their consequences on quantum dot sensitized solar cells: a detailed balance study. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	2
76	Characterization of Mukundpura Carbonaceous Chondrite. <i>Current Science</i> , <b>2018</b> , 114, 214	2.2	12
75	Thermal and Materials Perspective on the Design of Open Volumetric Air Receiver for Process Heat Applications. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 113-127	0.8	2
74	Zn interstitial defects and their contribution as efficient light blue emitters in Zn rich ZnO thin films. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2318-2323	5.7	16



73	Solar Performance Analysis of ZrOx/ZrC-ZrN/Zr/SS Spectrally Selective Coating Under Extreme Thermal Environment <b>2018</b> , 191-201		
72	Optimization and structure-property correlation of black chrome solar selective coating on Copper and Nickel plated copper substrates. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 23423-23427	1.4	
71	CdTe Sensitized Nano Porous Electrode for Photovoltaic Application. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 23311-23315	1.4	
70	Inverted structure perovskite solar cells: A theoretical study. <i>Current Applied Physics</i> , <b>2018</b> , 18, 1583-1591	1.6	8
69	Theoretical studies of single and tandem Cu <sub>2</sub> ZnSn(S/Se) <sub>4</sub> junction solar cells for enhanced efficiency. <i>Optical Materials</i> , <b>2018</b> , 82, 11-20	3.3	54
68	A novel process for sensitization and infiltration of quantum dots in mesoporous metal oxide matrix for efficient solar photovoltaics response. <i>Solar Energy</i> , <b>2018</b> , 169, 488-497	6.8	5
67	Robust non-volatile bipolar resistive switching in sol-gel derived BiFeO <sub>3</sub> thin films. <i>Superlattices and Microstructures</i> , <b>2018</b> , 120, 67-74	2.8	16
66	Effect of precursor and composition on the physical properties of the low-cost solution processed Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film for solar photovoltaic application. <i>Journal of Renewable and Sustainable Energy</i> , <b>2017</b> , 9, 013502	2.5	12
65	Optimization of sputtered zirconium thin films as an infrared reflector for use in spectrally-selective solar absorbers. <i>Thin Solid Films</i> , <b>2017</b> , 627, 17-25	2.2	18
64	Ferroic ordering and charge-spin-lattice order coupling in Gd-doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles relaxor multiferroic system. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1534-1541	3.8	5
63	The synthesis, structure, and electrochemical properties of Li <sub>2</sub> FeSiO <sub>4</sub> -based lithium-accumulating electrode material. <i>Russian Journal of Electrochemistry</i> , <b>2017</b> , 53, 302-311	1.2	2
62	Charge/discharge characteristics of Jahn-Teller distorted nanostructured orthorhombic and monoclinic Li <sub>2</sub> MnSiO <sub>4</sub> cathode materials. <i>RSC Advances</i> , <b>2017</b> , 7, 22990-22997	3.7	15
61	Tunable Twin Matching Frequency (f/f) Behavior of NiZnFeO/NBR Composites over 2-12.4 GHz: A Strategic Material System for Stealth Applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 44457	4.9	14
60	Ferroelectrically induced dual band microwave absorption in multiferroic BiFeO <sub>3</sub> /acrylo-nitrile butadiene rubber composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	5
59	Optimization of Electrochemical Performance of LiFePO <sub>4</sub> /C by Indium Doping and High Temperature Annealing. <i>Inorganics</i> , <b>2017</b> , 5, 67	2.9	1
58	Structural, magnetic, and electrical properties of spin coated ilmenite-pseudobrookite xFeTiO <sub>3</sub> -(1-x)Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 103901	2.5	2
57	Models of lithium transport as applied to determination of diffusion characteristics of intercalation electrodes. <i>Russian Journal of Electrochemistry</i> , <b>2017</b> , 53, 706-712	1.2	28
56	Fatty acids/1-dodecanol binary eutectic phase change materials for low temperature solar thermal applications: Design, development and thermal analysis. <i>Solar Energy</i> , <b>2017</b> , 155, 1373-1379	6.8	24

55	Temperature dependent electron paramagnetic resonance study on magnetoelectric YCrO. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 495805	1.8	7
54	Development of sodium acetate trihydrate-ethylene glycol composite phase change materials with enhanced thermophysical properties for thermal comfort and therapeutic applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 5203	4.9	16
53	Electrochemical behavior of carbonic precursor with Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanostructured material in hybrid battery system. <i>Ionics</i> , <b>2017</b> , 23, 3067-3071	2.7	2
52	Impact of corrosion on microstructure and mechanical properties of ZrO <sub>x</sub> /ZrC-ZrN/Zr absorber/reflector tandem solar selective structures. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 733-741	6.4	5
51	Investigation of ZrO <sub>x</sub> /ZrC-ZrN/Zr thin-film structural evolution and their degradation using X-ray diffraction and Raman spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	2
50	Dual Band Resonance in Tetragonal BaTiO <sub>3</sub> /NBR Composites for Microwave Absorption Applications. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 3002-3007	3.8	11
49	Impact of Ni doping on critical parameters of PdTe superconductor. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 075008	3.1	5
48	An experimental set-up for measuring thermodynamic response of low temperature phase change materials <b>2016</b> ,		3
47	Study of Hydrogen Adsorption on GO/PS Based Flexible Nanocomposites at Room Temperature. <i>Advanced Science Letters</i> , <b>2016</b> , 22, 3768-3772	0.1	
46	Charging studies of heat packs using parabolic dish solar energy concentrator for extreme conditions <b>2016</b> ,		1
45	Room temperature electrical properties of solution derived p-type Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films <b>2016</b> ,		3
44	Thermal phase diagram of acetamide-benzoic acid and benzoic acid-phthalimide binary systems for solar thermal applications <b>2016</b> ,		2
43	Spectrally selective response of ZrO <sub>x</sub> /ZrC-ZrN/Zr absorber/reflector tandem structures on stainless steel and copper substrates for high temperature solar thermal applications. <i>Solar Energy</i> , <b>2016</b> , 134, 353-365	6.8	37
42	Effect of transition metal doping on multiferroic ordering in FeVO <sub>4</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	16
41	Luminescence tuning in a ZnS:Mn system by C <sup>6+</sup> (80 MeV) ion beam irradiation. <i>Radiation Effects and Defects in Solids</i> , <b>2015</b> , 170, 399-406	0.9	
40	PdTe: a 4.5 K type-II BCS superconductor. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 055008	3.1	13
39	Magnetic Structure and Thermal Conductivity of FeVO <sub>4</sub> Multiferroic. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	5
38	Magnetostructural and magnetocaloric properties of bulk LaCrO <sub>3</sub> system. <i>Materials Research Express</i> , <b>2015</b> , 2, 026103	1.7	18



37	Ferromagnetism and spin polarization in indium nitride, indium oxynitride, and Cr substituted indium oxynitride films. <i>Applied Surface Science</i> , <b>2014</b> , 295, 189-193	6.7	3
36	Structural and magnetic properties of the M <sub>2</sub> Ga <sub>2</sub> Fe <sub>2</sub> O <sub>9</sub> (M=In, Sc) oxides. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 200, 110-116	3.3	0
35	Dielectric and optical phonon anomalies near antiferromagnetic ordering in LaCrO <sub>3</sub> : A possible near room temperature magnetodielectric system. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 152906	3.4	25
34	<b>2013</b> ,		3
33	<b>2013</b> ,		2
32	Influence of Excitation Frequency on Raman Modes of Thin Films. <i>Advances in Condensed Matter Physics</i> , <b>2013</b> , 2013, 1-4	1	
31	Dielectric relaxation and magneto-dielectric effect in polycrystalline Bi <sub>0.9</sub> Ca <sub>0.1</sub> FeO <sub>2.95</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 100, 252902	3.4	29
30	Weak ferromagnetic ordering in Ca doped polycrystalline BiFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 023910	2.5	55
29	Quantum confinement effects and band gap engineering of SnO <sub>2</sub> nanocrystals in a MgO matrix. <i>Acta Materialia</i> , <b>2012</b> , 60, 1072-1078	8.4	43
28	Ground State Electronic and Magnetic Properties of LaCrO <sub>3</sub> System. <i>Advanced Materials Research</i> , <b>2012</b> , 585, 274-278	0.5	5
27	Nanostructured high specific capacity C-LiFePO <sub>4</sub> cathode material for lithium-ion batteries. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 424-430	2.5	12
26	Electronic structure and polaronic excitation in FeVO <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2011</b> , 99, 141908	3.4	23
25	Diverse structural and magnetic properties of differently prepared MnAs nanoparticles. <i>ACS Nano</i> , <b>2011</b> , 5, 2970-8	16.7	15
24	Rare examples of fluoride-based multiferroic materials in Mn-substituted BaMgF <sub>4</sub> systems: experimental and theoretical studies. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11765-72	5.1	21
23	Dielectric relaxation near 25 K in multiferroic BiFeO <sub>3</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 104105	2.5	24
22	Magnetic structure and susceptibility of CoSe <sub>2</sub> O <sub>5</sub> : An antiferromagnetic chain compound. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	17
21	Investigation of E <sub>1</sub> (LO) phonon-plasmon coupled modes and critical points in In <sub>1-x</sub> Ga <sub>x</sub> N thin films by optical reflectance measurements. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 181904	3.4	6
20	Magnetic structure and magnetoelectric coupling in bulk and thin film FeVO <sub>4</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	29

19	Charge transfer and electronic transitions in polycrystalline BiFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	97
18	Coexistence of anion and cation vacancy defects in vacuum-annealed In <sub>2</sub> O <sub>3</sub> thin films. <i>Scripta Materialia</i> , <b>2010</b> , 62, 63-66	5.6	21
17	Electroless deposition of superconducting MgB <sub>2</sub> films on various substrates. <i>Thin Solid Films</i> , <b>2010</b> , 519, 658-661	2.2	7
16	Suppression of multiferroic order in hexagonal ceramics. <i>Solid State Communications</i> , <b>2010</b> , 150, 746-750	1.6	22
15	Robust room temperature persistent photoconductivity in polycrystalline indium oxide films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 252105	3.4	29
14	Undoped vacuum annealed In <sub>2</sub> O <sub>3</sub> thin films as a transparent conducting oxide. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 192105	3.4	38
13	Strong plasmon absorption in InN thin films. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 053104	2.5	6
12	Electric-field control of a magnetic phase transition in Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> . <i>Europhysics Letters</i> , <b>2009</b> , 86, 17007	1.6	8
11	Scaling behaviour of magnetic transitions in Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> . <i>Philosophical Magazine</i> , <b>2009</b> , 89, 1923-1932	1.6	8
10	Structural, magnetic, and electrical studies on polycrystalline transition-metal-doped BiFeO <sub>3</sub> thin films. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 036001	1.8	90
9	Development of electrical polarization at an antiferromagnetic transition in FeVO <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 456003	1.8	25
8	Bandgap engineering by tuning particle size and crystallinity of SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanocrystalline composite thin films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 231909	3.4	60
7	Fe <sub>3</sub> O <sub>4</sub> Incorporated AOT-Alginate Nanoparticles for Drug Delivery. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2800-2803	2	14
6	Phase separation and optical properties in oxygen-rich InN films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 142103	3.4	11
5	Magnetic relaxation and dissipative heating in ferrofluids. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 063914	2.5	25
4	A GENERALIZED CONDITION FOR TELEPORTATION OF THE QUANTUM STATE OF AN ASSEMBLY OF N TWO-LEVEL SYSTEM. <i>Modern Physics Letters B</i> , <b>2007</b> , 21, 2019-2023	1.6	10
3	Study on thermophysical properties of pentadecane and its composites with thermally expanded graphite as shape-stabilized phase change materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
2	Enhanced thermal conductivity and shape stabilized LiNO <sub>3</sub> -NaCl eutectic/exfoliated graphite composite for thermal energy storage applications. <i>Energy Storage</i> , 296	2.8	0

1	Enhanced Photocatalytic Activity in Strain Engineered Janus WSe Monolayers. <i>Journal of Electronic Materials</i> ,1	1.9	o
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