Ambesh Dixit

List of Publications by Citations

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	Charge transfer and electronic transitions in polycrystalline BiFeO3. *Physical Review B*, **2010**, 82,	3.3	97
161	Structural, magnetic, and electrical studies on polycrystalline transition-metal-doped BiFeO(3) thin films. *Journal of Physics Condensed Matter*, **2009**, 21, 036001	1.8	90
160	Microbial fuel cell powered by lipid extracted algae: A promising system for algal lipids and power generation. *Bioresource Technology*, **2018**, 247, 520-527	11	60
159	Bandgap engineering by tuning particle size and crystallinity of SnO2Fe2O3 nanocrystalline composite thin films. *Applied Physics Letters*, **2008**, 93, 231909	3.4	60
158	Weak ferromagnetic ordering in Ca doped polycrystalline BiFeO3. *Journal of Applied Physics*, **2012**, 111, 023910	2.5	55
157	Theoretical studies of single and tandem Cu2ZnSn(S/Se)4 junction solar cells for enhanced efficiency. *Optical Materials*, **2018**, 82, 11-20	3.3	54
156	A review on quantum dot sensitized solar cells: Past, present and future towards carrier multiplication with a possibility for higher efficiency. *Solar Energy*, **2020**, 203, 210-239	6.8	52
155	Quantum confinement effects and band gap engineering of SnO2 nanocrystals in a MgO matrix. *Acta Materialia*, **2012**, 60, 1072-1078	8.4	43
154	Defect engineered MoSSe Janus monolayer as a promising two dimensional material for NO2 and NO gas sensing. *Applied Surface Science*, **2019**, 490, 204-219	6.7	38
153	Undoped vacuum annealed In2O3 thin films as a transparent conducting oxide. *Applied Physics Letters*, **2009**, 95, 192105	3.4	38
152	Spectrally selective response of ZrO /ZrCZrN/Zr absorberflector tandem structures on stainless steel and copper substrates for high temperature solar thermal applications. *Solar Energy*, **2016**, 134, 353-365	6.8	37
151	Strain-mediated stability and electronic properties of WS2, Janus WSSe and WSe2 monolayers. *Superlattices and Microstructures*, **2018**, 122, 268-279	2.8	29
150	Dielectric relaxation and magneto-dielectric effect in polycrystalline Bi0.9Ca0.1FeO2.95. *Applied Physics Letters*, **2012**, 100, 252902	3.4	29
149	Magnetic structure and magnetoelectric coupling in bulk and thin film FeVO4. *Physical Review B*, **2010**, 82,	3.3	29
148	Robust room temperature persistent photoconductivity in polycrystalline indium oxide films. *Applied Physics Letters*, **2009**, 94, 252105	3.4	29
147	Models of lithium transport as applied to determination of diffusion characteristics of intercalation electrodes. *Russian Journal of Electrochemistry*, **2017**, 53, 706-712	1.2	28
146	Dielectric and optical phonon anomalies near antiferromagnetic ordering in LaCrO3: A possible near room temperature magnetodielectric system. *Applied Physics Letters*, **2013**, 103, 152906	3.4	25

145	Development of electrical polarization at an antiferromagnetic transition in FeVO(4). *Journal of Physics Condensed Matter*, **2009**, 21, 456003	1.8	25
144	Magnetic relaxation and dissipative heating in ferrofluids. *Journal of Applied Physics*, **2007**, 102, 063914	2.5	25
143	Fatty acids/1-dodecanol binary eutectic phase change materials for low temperature solar thermal applications: Design, development and thermal analysis. *Solar Energy*, **2017**, 155, 1373-1379	6.8	24
142	Dielectric relaxation near 25 K in multiferroic BiFeO3 ceramics. *Journal of Applied Physics*, **2011**, 110, 104105	2.5	24
141	Ultrathin Janus WSSe buffer layer for W(S/Se)2 absorber based solar cells: A hybrid, DFT and macroscopic, simulation studies. *Solar Energy Materials and Solar Cells*, **2019**, 201, 110076	6.4	23
140	Electronic structure and polaronic excitation in FeVO4. *Applied Physics Letters*, **2011**, 99, 141908	3.4	23
139	Point defects induced magnetism in CdO monolayer: A theoretical study. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 279-288	2.8	23
138	Suppression of multiferroic order in hexagonal ceramics. *Solid State Communications*, **2010**, 150, 746-750	1.6	22
137	Ultrahigh sensitivity with excellent recovery time for NH and NO in pristine and defect mediated Janus WSSe monolayers. *Physical Chemistry Chemical Physics*, **2020**, 22, 13903-13922	3.6	22
136	Positive effect of surface modification with titanium carbosilicide on performance of lithium-transition metal phosphate cathode materials. *Monatshefte F□ Chemie*, **2019**, 150, 489-498	1.4	21
135	Rare examples of fluoride-based multiferroic materials in Mn-substituted BaMgF4 systems: experimental and theoretical studies. *Inorganic Chemistry*, **2011**, 50, 11765-72	5.1	21
134	Coexistence of anion and cation vacancy defects in vacuum-annealed In2O3 thin films. *Scripta Materialia*, **2010**, 62, 63-66	5.6	21
133	Ni/graphitic carbon core□shell nanostructure-based light weight elastomeric composites for Ku-band microwave absorption applications. *CrystEngComm*, **2018**, 20, 4630-4640	3.3	20
132	Electrical and impedance spectroscopy analysis of sol-gel derived spin coated Cu2ZnSnS4 solar cell. *Journal of Applied Physics*, **2018**, 123, 013101	2.5	19
131	Optimization of sputtered zirconium thin films as an infrared reflector for use in spectrally-selective solar absorbers. *Thin Solid Films*, **2017**, 627, 17-25	2.2	18
130	Strain-driven thermodynamic stability and electronic transitions in ZnX (X = O, S, Se, and Te) monolayers. *Journal of Applied Physics*, **2019**, 125, 082540	2.5	18
129	Magnetostructural and magnetocaloric properties of bulk LaCrO3system. *Materials Research Express*, **2015**, 2, 026103	1.7	18
128	1T-Phase Titanium Disulfide Nanosheets for Sensing H2S and O2. *ACS Applied Nano Materials*, **2020**, 3, 3382-3394	5.6	17

127	Magnetic structure and susceptibility of CoSe2O5: An antiferromagnetic chain compound. *Physical Review B*, **2010**, 82,	3.3	17
126	Enhancing thermoelectric properties of Janus WSSe monolayer by inducing strain mediated valley degeneracy. *Journal of Alloys and Compounds*, **2021**, 855, 157304	5.7	17
125	LiFePO4-Based Composite Electrode Material: Synthetic Approaches, Peculiarities of the Structure, and Regularities of Ionic Transport Processes. *Russian Journal of Electrochemistry*, **2019**, 55, 719-737	1.2	16
124	Effect of transition metal doping on multiferroic ordering in FeVO4. *Physical Review B*, **2015**, 91,	3.3	16
123	Nanostructured zinc titanate wide band gap semiconductor as a photoelectrode material for quantum dot sensitized solar cells. *Solar Energy*, **2018**, 163, 338-346	6.8	16
122	Development of sodium acetate trihydrate-ethylene glycol composite phase change materials with enhanced thermophysical properties for thermal comfort and therapeutic applications. *Scientific Reports*, **2017**, 7, 5203	4.9	16
121	Zn interstitial defects and their contribution as efficient light blue emitters in Zn rich ZnO thin films. *Journal of Alloys and Compounds*, **2018**, 735, 2318-2323	5.7	16
120	Robust non-volatile bipolar resistive switching in sol-gel derived BiFeO3 thin films. *Superlattices and Microstructures*, **2018**, 120, 67-74	2.8	16
119	Charge/discharge characteristics of Jahn□eller distorted nanostructured orthorhombic and monoclinic Li2MnSiO4 cathode materials. *RSC Advances*, **2017**, 7, 22990-22997	3.7	15
118	Diverse structural and magnetic properties of differently prepared MnAs nanoparticles. *ACS Nano*, **2011**, 5, 2970-8	16.7	15
117	Tunable Twin Matching Frequency (f/f) Behavior of NiZnFeO/NBR Composites over 2-12.4 GHz: A Strategic Material System for Stealth Applications. *Scientific Reports*, **2017**, 7, 44457	4.9	14
116	Enhancement in electrical and magnetodielectric properties of Ca- and Ba-doped BiFeO3 polycrystalline ceramics. *Journal of the American Ceramic Society*, **2018**, 101, 782-788	3.8	14
115	Fe $_{3}$O $_{4}$ Incorporated AOT-Alginate Nanoparticles for Drug Delivery. *IEEE Transactions on Magnetics*, **2008**, 44, 2800-2803	2	14
114	PdTe: a 4.5 K type-II BCS superconductor. *Superconductor Science and Technology*, **2015**, 28, 055008	3.1	13
113	Effect of precursor and composition on the physical properties of the low-cost solution processed Cu2ZnSnS4 thin film for solar photovoltaic application. *Journal of Renewable and Sustainable Energy* , **2017**, 9, 013502	2.5	12
112	Impact of excess and disordered Sn sites on Cu2ZnSnS4 absorber material and device performance: A 119Sn M□sbauer study. *Materials Chemistry and Physics*, **2019**, 225, 410-416	4.4	12
111	Structural and electrochemical investigation of lithium ions insertion processes in polyanionic compounds of lithium and transition metals. *Journal of Electroanalytical Chemistry*, **2020**, 860, 113894	4.1	12
110	Nanostructured high specific capacity C-LiFePO4 cathode material for lithium-ion batteries. *Journal of Materials Research*, **2012**, 27, 424-430	2.5	12

109	Characterization of Mukundpura Carbonaceous Chondrite. *Current Science*, **2018**, 114, 214	2.2	12
108	NiF2 as an efficient electrode material with high window potential of 1.8 V for high energy and power density asymmetric supercapacitor. *Journal of Electroanalytical Chemistry*, **2020**, 873, 114379	4.1	11
107	Cation modified A2(Ba, Sr and Ca) ZnWO6 cubic double perovskites: A theoretical study. *Computational Condensed Matter*, **2018**, 14, 27-35	1.7	11
106	Dual Band Resonance in Tetragonal BaTiO3/NBR Composites for Microwave Absorption Applications. *Journal of the American Ceramic Society*, **2016**, 99, 3002-3007	3.8	11
105	Efficient Alpha Radiation Detector using Low Temperature Hydrothermally Grown ZnO:Ga Nanorod Scintillator. *Scientific Reports*, **2019**, 9, 11354	4.9	11
104	Phase separation and optical properties in oxygen-rich InN films. *Applied Physics Letters*, **2008**, 93, 142103	3.4	11
103	Strain Modulated Optoelectronic Properties of CdO Monolayer. *Journal of Electronic Materials*, **2019**, 48, 3963-3969	1.9	10
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101	Inorganic Lead-Free Cs2AuBiCl6 Perovskite Absorber and Cu2O Hole Transport Material Based Single-Junction Solar Cells with 22.18% Power Conversion Efficiency. *Advanced Theory and Simulations*, **2021**, 4, 2000224	3.5	9
100	Facile synthesis of Cu2ZnGeS4 thin films from binary metal sulfides and study of their physical properties. *Thin Solid Films*, **2019**, 676, 68-74	2.2	8
99	Interfacial layer assisted, forming free, and reliable bipolar resistive switching in solution processed BiFeO3 thin films. *AIP Advances*, **2020**, 10, 025110	1.5	8
98	Electric-field control of a magnetic phase transition in Ni 3 V 2 O 8. *Europhysics Letters*, **2009**, 86, 17007	1.6	8
97	Scaling behaviour of magnetic transitions in Ni3V2O8. *Philosophical Magazine*, **2009**, 89, 1923-1932	1.6	8
96	Growth of sillenite BiFeO single crystals: structural, thermal, optical, photocatalytic features and first principle calculations. *Scientific Reports*, **2020**, 10, 22052	4.9	8
95	Thermodynamic stability and optoelectronic properties of Cu(Sb/Bi)(S/Se)2 ternary chalcogenides: Promising ultrathin photoabsorber semiconductors. *Solar Energy*, **2019**, 177, 679-689	6.8	8
94	Structural characterization of polycrystalline thin films by X-ray diffraction techniques. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 1341-1368	2.1	8
93	Inverted structure perovskite solar cells: A theoretical study. *Current Applied Physics*, **2018**, 18, 1583-1591	1.6	8
92	Temperature dependent electron paramagnetic resonance study on magnetoelectric YCrO. *Journal of Physics Condensed Matter*, **2017**, 29, 495805	1.8	7

91	Electroless deposition of superconducting MgB2 films on various substrates. *Thin Solid Films*, **2010**, 519, 658-661	2.2	7
90	Rietveld refinement, optical, dielectric and ac conductivity studies of Ba-doped SrSnO3. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 16838-16848	2.1	7
89	Complex magnetic structure and magnetocapacitance response in a non-oxide NiF system. *Scientific Reports*, **2019**, 9, 3200	4.9	6
88	Investigation of E1(LO) phonon-plasmon coupled modes and critical points in In1GaxN thin films by optical reflectance measurements. *Applied Physics Letters*, **2010**, 96, 181904	3.4	6
87	Strong plasmon absorption in InN thin films. *Journal of Applied Physics*, **2009**, 105, 053104	2.5	6
86	Ferroic ordering and charge-spin-lattice order coupling in Gd-doped Fe3O4 nanoparticles relaxor multiferroic system. *Journal of the American Ceramic Society*, **2017**, 100, 1534-1541	3.8	5
85	Ferroelectrically induced dual band microwave absorption in multiferroic BiFeO3/acrylo-nitrile butadiene rubber composites. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	5
84	Magnetic Structure and Thermal Conductivity of FeVO4 Multiferroic. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	5
83	Simulation studies on photovoltaic response of ultrathin CuSb(S/Se)2 ternary compound semiconductors absorber-based single junction solar cells. *International Journal of Energy Research*, **2020**, 44, 3724-3736	4.5	5
82	Impact of corrosion on microstructure and mechanical properties of ZrOx/ZrC-ZrN/Zr absorberflector tandem solar selective structures. *Solar Energy Materials and Solar Cells*, **2016**, 157, 733-741	6.4	5
81	Impact of Ni doping on critical parameters of PdTe superconductor. *Superconductor Science and Technology*, **2016**, 29, 075008	3.1	5
80	Nanotechnology for Defence Applications **2019**,		5
79	Ground State Electronic and Magnetic Properties of LaCrO3 System. *Advanced Materials Research*, **2012**, 585, 274-278	0.5	5
78	Ruddlesden-Popper 2D perovskites of type (CHCHNH)(CHNH)PbI (n = 1-4) for optoelectronic applications.. *Scientific Reports*, **2022**, 12, 2176	4.9	5
77	Impedance engineered microwave absorption properties of Fe-Ni/C core-shell enabled rubber composites for X-band stealth applications. *Journal of Alloys and Compounds*, **2021**, 869, 159360	5.7	5
76	A novel process for sensitization and infiltration of quantum dots in mesoporous metal oxide matrix for efficient solar photovoltaics response. *Solar Energy*, **2018**, 169, 488-497	6.8	5
75	Theoretical DFT studies of Cu2HgSnS4 absorber material and Al:ZnO/ZnO/CdS/Cu2HgSnS4/Back contact heterojunction solar cell. *Solar Energy*, **2021**, 225, 802-813	6.8	5
74	Emergence of two-magnon modes below spin-reorientation transition and phonon-magnon coupling in bulk BiFeO3: An infrared spectroscopic study. *Journal of Alloys and Compounds*, **2020**, 832, 154754	5.7	4

73	Structural evolution of chemically deposited binary stacks of Sb2S3-CuS to phase-pure CuSbS2 thin films and evaluation of device parameters of CuSbS2/CdS heterojunction. *International Journal of Energy Research*, **2020**, 44, 5881-5894	4.5	4
72	Large scale re-producible synthesis and magnetic properties of Ni/graphite core-shell nanostructured materials. *Journal of Magnetism and Magnetic Materials*, **2020**, 501, 166444	2.8	4
71	Enhancement in photocatalytic response of inorganic□rganic BiVO4/C3N4 composite system. *Materials Research Express*, **2018**, 5, 024001	1.7	4
70	Design criteria of transition metal dopants in TiO2/CdS photoelectrode for enhanced photovoltaic response. *Journal of Physics and Chemistry of Solids*, **2018**, 122, 154-161	3.9	4
69	Structural, microstructure, optical, and electrical properties of Ti-doped CaSnO3 prepared by Sol-Gel chemical route. *Physica Scripta*, **2020**, 95, 105807	2.6	4
68	Zinc oxide/polystyrene composite based scintillator for alpha particle monitoring. *Materials Science in Semiconductor Processing*, **2021**, 127, 105692	4.3	4
67	Corrosion resists Ni, Co co-pigmented nanoporous anodized alumina as spectral selective coating structure for solar thermal applications. *Journal of Alloys and Compounds*, **2019**, 810, 151833	5.7	3
66	An experimental set-up for measuring thermodynamic response of low temperature phase change materials **2016**,		3
65	Ferromagnetism and spin polarization in indium nitride, indium oxynitride, and Cr substituted indium oxynitride films. *Applied Surface Science*, **2014**, 295, 189-193	6.7	3
64	**2013**,		3
63	RF Sputtered MoO3 Thin Film on Si (100) for Gas Sensing Applications. *Defence Science Journal*, **2020**, 70, 505-510	1.4	3
62	Rare Earth Oxides Based Composites for High Voltage Supercapacitors Applications: A Short Review. *Smart Innovation, Systems and Technologies*, **2020**, 1-10	0.5	3
61	Room temperature electrical properties of solution derived p-type Cu2ZnSnS4 thin films **2016**,		3
60	Theoretical studies on structural, electronic and optical properties of kesterite and stannite Cu2ZnGe(S/Se)4 solar cell absorbers. *Computational Condensed Matter*, **2019**, 19, e00334	1.7	3
59	Heterostructure AZO/WSeTe/W(S/Se)2 as an Efficient Single Junction Solar Cell with Ultrathin Janus WSeTe Buffer Layer. *Journal of Physical Chemistry C*, **2021**, 125, 4355-4362	3.8	3
58	The synthesis, structure, and electrochemical properties of Li2FeSiO4-based lithium-accumulating electrode material. *Russian Journal of Electrochemistry*, **2017**, 53, 302-311	1.2	2
57	Magnetic entropy change in a non-collinear weak ferromagnetic YCrO3. *Vacuum*, **2020**, 179, 109519	3.7	2
56	Ag8+ ion irradiation modulated structural, microstructural, defect, and magnetization in ZnO thin films. *Vacuum*, **2020**, 176, 109342	3.7	2

55	A low temperature water-cooled radiation calorimeter for estimation of concentrated solar irradiance. *Solar Energy*, **2018**, 167, 194-209	6.8	2
54	Investigation of ZrO x /ZrC□rN/Zr thin-film structural evolution and their degradation using X-ray diffraction and Raman spectrometry. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	2
53	Limiting efficiency factors and their consequences on quantum dot sensitized solar cells: a detailed balance study. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	2
52	W/SS thin film as high temperature infrared reflector for solar thermal applications: intrinsic properties and impact of residual oxygen. *Materials Research Express*, **2019**, 6, 106408	1.7	2
51	Glassy magnetic cronstedtite signatures in Mukundpura CM2 chondrite based on magnetic and M□ssbauer studies. *Meteoritics and Planetary Science*, **2019**, 54, 2902-2907	2.8	2
50	Structural, magnetic, and electrical properties of spin coated ilmenite-pseudobrookite xFeTiO3-(1-x)Fe2O3 thin films. *Journal of Applied Physics*, **2017**, 122, 103901	2.5	2
49	Electrochemical behavior of carbonic precursor with Na3V2(PO4)3nanostructured material in hybrid battery system. *Ionics*, **2017**, 23, 3067-3071	2.7	2
48	**2013**,		2
47	DFT Studies on Electronic and Optical Properties of Inorganic CsPbI3 Perovskite Absorber for Solar Cell Application. *Springer Proceedings in Energy*, **2021**, 1199-1206	0.2	2
46	Thermal phase diagram of acetamide-benzoic acid and benzoic acid-phthalimide binary systems for solar thermal applications **2016**,		2
45	Thermal and Materials Perspective on the Design of Open Volumetric Air Receiver for Process Heat Applications. *Energy, Environment, and Sustainability*, **2018**, 113-127	0.8	2
44	Improved rectification behaviour in ZnO nanorods homojunction by suppressing Li donor defects using Li-Ni co-doping. *Superlattices and Microstructures*, **2019**, 132, 106154	2.8	1
43	Exchange Bias Enhancement and Magnetic Proximity Effect in FeVO4-Fe3O4 Nanoparticles. *Journal of Electronic Materials*, **2019**, 48, 3297-3303	1.9	1
42	Transition Metal Doped ZnS Monolayer: The First Principles Insights. *Springer Proceedings in Physics*, **2019**, 49-56	0.2	1
41	Optimization of Electrochemical Performance of LiFePO4/C by Indium Doping and High Temperature Annealing. *Inorganics*, **2017**, 5, 67	2.9	1
40	Thermal Conductivity Enhancement of Myristic Acid Using Exfoliated Graphite for Thermal Energy Storage Applications. *Springer Proceedings in Energy*, **2018**, 159-167	0.2	1
39	Neutron diffraction studies on temperature driven crystallographic anisotropy in FeVO4 multiferroic: Evidence of strong magnetostructural correlations **2019**,		1
38	Defects and light elements (Li, Be, B, C, O and F) driven d0 magnetism in InN monolayer. *Vacuum*, **2020**, 181, 109720	3.7	1

37	Gamma Radiation Dosimetry Characteristics of Hydrothermally Synthesized TiO2 Nanorods. *Journal of Electronic Materials*, **2021**, 50, 4090-4095	1.9	1
36	Charging studies of heat packs using parabolic dish solar energy concentrator for extreme conditions **2016**,		1
35	Environmental Degradation of Glass Fiber-Reinforced Nanocomposites with Self-Healing Reinforcement in Polymer Matrix for Wind Turbine Blade Application. *Transactions of the Indian Institute of Metals*, **2021**, 74, 3119	1.2	1
34	Gamma radiation induced microwave absorption properties of Ultra-thin barium titanate (BaTiO3) ceramic tiles over X-Band (8.2–12.4GHz). *Ceramics International*, **2021**, 47, 22397-22403	5.1	1
33	Superiority of activated graphite/CuO composite electrode over Platinum based electrodes as cathode in algae assisted microbial fuel cell. *Environmental Technology and Innovation*, **2021**, 24, 101891	7	1
32	BiFeO3 Coupled Polysulfide Trapping in C/S Composite Cathode Material for Li-S Batteries as Large Efficiency and High Rate Performance. *Energies*, **2021**, 14, 8362	3.1	1
31	Rare-Earth Doped Iron Oxide Nanostructures for Cancer Theranostics: Magnetic Hyperthermia and Magnetic Resonance Imaging. *Small*, **2021**, e2104855	11	1
30	Structural and magnetic properties of the M2Ga2Fe2O9 (M=In, Sc) oxides. *Journal of Solid State Chemistry*, **2013**, 200, 110-116	3.3	0
29	Study on thermophysical properties of pentadecane and its composites with thermally expanded graphite as shape-stabilized phase change materials. *Journal of Thermal Analysis and Calorimetry*,1	4.1	0
28	Enhanced thermal conductivity and shape stabilized LiNO3-NaCl eutectic/exfoliated graphite composite for thermal energy storage applications. *Energy Storage*,e296	2.8	0
27	Study of CNT Intercalated Bi2O3/PVDF Composite for Super Capacitors Applications. *Macromolecular Symposia*, **2021**, 399, 2100022	0.8	0
26	Issue and Challenges with High-Temperature Solar Selective Material for Solar Thermal Application. *Smart Innovation, Systems and Technologies*, **2020**, 99-108	0.5	0
25	Multiferroic, optical and magneto-dielectric properties with enhanced magneto-impedance characteristic of KBiFe2O5. *Journal of Alloys and Compounds*, **2022**, 893, 162225	5.7	0
24	Influence of Ca doping on X-ray photoelectron core-level spectra of magnetoelectric bulk BiFeO3. *Surface and Interface Analysis*, **2021**, 53, 798-807	1.5	0
23	Capacity Fading in Li2FeSiO4 Cathode Material: Intrinsic or Extrinsic. *Journal of Electronic Materials*, **2021**, 50, 1059-1066	1.9	0
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21	Ultra-low lattice thermal conductivity and high figure of merit for Janus MoSeTe monolayer: a peerless material for high temperature regime thermoelectric devices. *Journal of Materials Science*, **2022**, 57, 7012-7022	4.3	0
20	Near-infrared photodetector performance of Cu2ZnSnS4 in the metal-semiconductor-metal configuration: Theoretical studies. *Optik*, **2022**, 169385	2.5	0

19	Light Emitting Diode and UV Photodetector Characteristics of Solution Processed n-ZnO Nanorods/p-Si Heterostructures. *Springer Proceedings in Physics*, **2019**, 1223-1229	0.2
18	Band Gap Engineering of CdTe Quantum Dots by Hg Alloying in Infrared Region. *Springer Proceedings in Physics*, **2019**, 1231-1234	0.2
17	Luminescence tuning in a ZnS:Mn system by C6+ (80 MeV) ion beam irradiation. *Radiation Effects and Defects in Solids*, **2015**, 170, 399-406	0.9
16	Transition Metal-Based Spectrally Selective Coatings Using In-House Developed Spray System. *Springer Proceedings in Energy*, **2018**, 145-155	0.2
15	Effect of Growth Condition on Mechanical Properties of Zirconium Carbonitride Absorber-Based Spectrally Selective Coatings. *Springer Proceedings in Energy*, **2018**, 137-143	0.2
14	Influence of Excitation Frequency on Raman Modes of Thin Films. *Advances in Condensed Matter Physics*, **2013**, 2013, 1-4	1
13	Highly textured (100)-oriented AlN thin films using thermal atomic layer deposition and their electrical properties. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6
12	Effect of Magnetic Ordering on Phonon Raman Spectra in Magnetic Systems. *Springer Proceedings in Physics*, **2019**, 289-299	0.2
11	Graphene modulated LiMn1.5Ni0.4Cr0.1O4 spinel cathode for lithium ion battery. *Nano Express*, **2020**, 1, 020028	2
10	Fabrication and Thermal Performance Evaluation of Metastable Supercooled Liquid PCM Based Heat Pack. *Energy, Environment, and Sustainability*, **2020**, 277-282	0.8
9	Study of Hydrogen Adsorption on GO/PS Based Flexible Nanocomposites at Room Temperature. *Advanced Science Letters*, **2016**, 22, 3768-3772	0.1
8	Onset of inverse magnetocaloric effect in multiferroic FeVO4 below the antiferromagnetic transition temperature TN1. *Journal of Magnetism and Magnetic Materials*, **2020**, 515, 167300	2.8
7	Anomalous magnetic behavior and complex magnetic structure of proximate LaCrO3□aFeO3 system. *Materials Research Express*, **2019**, 6, 126119	1.7
6	Solar Performance Analysis of ZrOx/ZrC-ZrN/Zr/SS Spectrally Selective Coating Under Extreme Thermal Environment **2018**, 191-201	
5	Optimization and structure-property correlation of black chrome solar selective coating on Copper and Nickel plated copper substrates. *Materials Today: Proceedings*, **2018**, 5, 23423-23427	1.4
4	CdTe Sensitized Nano Porous Electrode for Photovoltaic Application. *Materials Today: Proceedings*, **2018**, 5, 23311-23315	1.4
3	Evolution of hematite and/or magnetite iron phases with thermal heating in ordinary chondrites: A generic characteristic. *Journal of Earth System Science*, **2021**, 130, 1	1.8
2	Energy for rural development **2021**, 181-222	

1	All oxide sol-gel assisted SiO2/(ZnO/Sn-In2O3)n/SS dielectric/conducting multilayer based spectrally selective coating on Stainless Steel tubes for potential solar thermal application. *Solar Energy*, **2022**, 236, 561-568	6.8