

# Monika Tomar

## List of Publications by Year in descending order

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301  
papers

6,012  
citations

70961

41  
h-index

123241

61  
g-index

304  
all docs

304  
docs citations

304  
times ranked

6765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on energy storage properties of $\text{BFO}/\text{WO}_3$ bilayer thin film capacitor. Energy Storage, 2023, 5, .	2.3	2
2	Electrocatalytic Properties of ZnO Thin Film Based Biosensor for Detection of Uric Acid. Springer Proceedings in Materials, 2022, , 1-16.	0.1	1
3	Lattice-strain engineered $\text{KxNa}_{1-x}\text{NbO}_3$ thin films near the morphotropic phase boundary for enhanced electrical properties. Materials Chemistry and Physics, 2022, 277, 125512.	2.0	0
4	Effect of different anode electrodes with $\text{Li}(\text{Li}_0.25\text{Co}_0.37\text{Mn}_0.38)\text{O}_2$ as cathode material on Li: ion battery performance. Journal of Materials Science: Materials in Electronics, 2022, 33, 3901-3913.	1.1	0
5	Double Schottky metal-semiconductor-metal based GaN photodetectors with improved response using laser MBE technique. Journal of Materials Research, 2022, 37, 457-469.	1.2	12
6	Smartphone integrated handheld Long Range Surface Plasmon Resonance based fiber-optic biosensor with tunable $\text{SiO}_2$ sensing matrix. Biosensors and Bioelectronics, 2022, 201, 113919.	5.3	15
7	Enhanced Pyroelectric Coefficient in Ferroelectric Lead Zirconium Titanate Thick Films for Thermal Energy Harvesting Applications. ECS Journal of Solid State Science and Technology, 2022, 11, 023015.	0.9	2
8	Electroluminescence study of InGaN/GaN QW based p-i-n and inverted p-i-n junction based short-wavelength LED device using laser MBE technique. Optical Materials, 2022, 126, 112149.	1.7	11
9	Study of intrinsic point defects in $\text{In}_2\text{Se}_3$ based on first principles calculations for the realization of an efficient UV photodetector. Journal of Alloys and Compounds, 2022, 912, 165197.	2.8	4
10	Compositional, electrical and thermal properties of nonstoichiometric titanium oxide thin films for MEMS bolometer applications. Materials Science in Semiconductor Processing, 2022, 148, 106779.	1.9	4
11	Phase-defined growth of $\text{In}_2\text{Se}_3$ thin films using PLD technique for high performance self-powered UV photodetector. Applied Surface Science, 2022, 595, 153505.	3.1	8
12	Role of vacancies in tuning the electronic and magnetic properties of $\text{BiCoO}_3$ . Physica Scripta, 2022, 97, 075819.	1.2	1
13	Optical properties of LMBE grown c-axis oriented GaN thin films using Surface Plasmon Resonance technique. Optical Materials, 2022, 131, 112603.	1.7	0
14	Thiol-functionalized multiwall carbon nanotubes for electrochemical sensing of thallium. Materials Chemistry and Physics, 2021, 259, 124068.	2.0	12
15	Influence of magnetic ordering on electronic, optical and magnetic properties of $\text{Bi}_2\text{Fe}_4\text{O}_9$ . Materials Today: Proceedings, 2021, 47, 1637-1640.	0.9	3
16	Growth of highly oriented orthorhombic phase of $\text{Bi}_2\text{Fe}_4\text{O}_9$ thin films by pulsed laser deposition. Materials Today: Proceedings, 2021, 47, 1646-1650.	0.9	4
17	Theoretical simulations of SAW based sensor on PVDF. Materials Today: Proceedings, 2021, 47, 1538-1541.	0.9	4
18	Study of band alignment at $\text{MoS}_2/\text{SiO}_2$ interfaces grown by pulsed laser deposition method. Journal of Applied Physics, 2021, 129, 115303.	1.1	3

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19	Comparison of Ferroelectric Photovoltaic Performance in BFO/BTO Multilayer Thin Film Structure Fabricated Using CSD & PLD Techniques. Journal of Electronic Materials, 2021, 50, 1835-1844.	1.0	11
20	Investigation of cadmium-incorporated ZnO thin films for photodetector applications. Superlattices and Microstructures, 2021, 151, 106812.	1.4	9
21	Role of charge states and dopant site in governing electronic properties of Cr doped BiFeO <sub>3</sub> . Materials Chemistry and Physics, 2021, 263, 124438.	2.0	7
22	Enhanced interlayer coupling and efficient photodetection response of <i>in-situ</i> grown MoS <sub>2</sub> –WS <sub>2</sub> van der Waals heterostructures. Journal of Applied Physics, 2021, 129, .	1.1	13
23	Realization of low-power and high mobility thin film transistors based on MoS <sub>2</sub> layers grown by PLD technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 266, 115047.	1.7	10
24	Demonstration of efficient SBN thin film based miniaturized Mach Zehnder EO modulator. Materials Chemistry and Physics, 2021, 262, 124300.	2.0	1
25	Impact of TiO <sub>2</sub> buffer layer on the ferroelectric photovoltaic response of CSD grown PZT thick films. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
26	Enhancement in the Dielectric Property of Thick Lead Zirconium Titanate Films under UV Illumination. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000728.	0.8	1
27	Enhanced Low Temperature Thermoelectric Properties by Nano-Inclusion of 2D MoS <sub>2</sub> with Fe:ZnO Thin Films. Journal of Electronic Materials, 2021, 50, 4567-4576.	1.0	2
28	High figure of merit observed in SBN thin film based EO modulator employing WCSPR technique. Optics and Laser Technology, 2021, 137, 106816.	2.2	4
29	Hydrothermal synthesis of micro-flower like morphology aluminum-doped MoS <sub>2</sub> /rGO nano hybrids for high efficient electromagnetic wave shielding materials. Ceramics International, 2021, 47, 15648-15660.	2.3	15
30	Investigation of optical non-linearity of lead-free ferroelectric potassium sodium niobate (K <sub>0.35</sub> Na <sub>0.65</sub> NbO <sub>3</sub> ) thin films via two-wave mixing phenomenon. Optics and Laser Technology, 2021, 141, 107148.	2.2	6
31	Investigation of Adulteration in Milk using Surface Plasmon Resonance. ECS Journal of Solid State Science and Technology, 2021, 10, 091004.	0.9	6
32	Role of H impurity as compensating center in BiFeO <sub>3</sub> by first-principle calculations. Physica Scripta, 2021, 96, 125813.	1.2	0
33	NO <sub>2</sub> Gas Sensor Based on SnSe/SnSe <sub>2</sub> <i>p-n</i> Hetrojunction. Journal of Nanoscience and Nanotechnology, 2021, 21, 4779-4785.	0.9	20
34	Electromagnetic interference shielding properties of hierarchical core-shell palladium-doped MoS <sub>2</sub> /CNT nano hybrid materials. Ceramics International, 2021, 47, 27586-27597.	2.3	5
35	Exploitation of electric field assisted optical signal amplification in ferroelectric photorefractive K <sub>0.50</sub> Na <sub>0.50</sub> NbO <sub>3</sub> thin film. Optical Materials, 2021, 121, 111599.	1.7	1
36	Ferroelectric and magnetic domain mapping of magneto-dielectric Ce doped BiFeO <sub>3</sub> thin films. Journal of Alloys and Compounds, 2021, 882, 160698.	2.8	6

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37	Development of novel MoS <sub>2</sub> hydrovoltaic nanogenerators for electricity generation from moving NaCl droplet. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161058.	2.8	14
38	Ferroelectric PZT thin films for photovoltaic application. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104723.	1.9	15
39	Synthesis of CdS nanoparticle by sol-gel method as low temperature NO <sub>2</sub> sensor. <i>Materials Chemistry and Physics</i> , 2020, 239, 121975.	2.0	78
40	Ferroelectric Sr <sub>0.6</sub> Ba <sub>0.4</sub> Nb <sub>2</sub> O <sub>6</sub> thin film based broadband waveguide coupled surface plasmon electro-optic modulator. <i>Optics and Laser Technology</i> , 2020, 122, 105880.	2.2	4
41	Synthesis of mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanostructures via nanocasting using MCM-41 and KIT-6 as hard templates for sensing volatile organic compounds (VOCs). <i>Journal of Porous Materials</i> , 2020, 27, 285-294.	1.3	5
42	Surface Plasmon Resonance assisted optical analysis of Strontium Barium Niobate thin films. <i>Applied Surface Science</i> , 2020, 501, 144178.	3.1	7
43	Thermo-optic Aided Tunability of Sr <sub>0.6</sub> Ba <sub>0.4</sub> Nb <sub>2</sub> O <sub>6</sub> Thin Film-based Electro-optic Modulator Using Waveguide Coupled SPR Modes. <i>Plasmonics</i> , 2020, 15, 661-669.	1.8	4
44	Synthesis and characterization of sol gel derived nontoxic CZTS thin films without sulfurization. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 1194-1200.	1.1	5
45	High-efficiency microwave absorption and electromagnetic interference shielding of Cobalt-doped MoS <sub>2</sub> nanosheet anchored on the surface reduced graphene oxide nanosheet. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19895-19909.	1.1	6
46	Influence of laser fluence in modifying energy storage property of BiFeO <sub>3</sub> thin film capacitor. <i>Journal of Energy Storage</i> , 2020, 32, 101769.	3.9	8
47	Room temperature electroluminescence from Laser MBE grown Gallium nitride LEDs. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 260, 114655.	1.7	8
48	Molybdenum Disulfide-Wrapped Carbon Nanotube-Reduced Graphene Oxide (CNT/MoS <sub>2</sub> -rGO) Nanohybrids for Excellent and Fast Removal of Electromagnetic Interference Pollution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40828-40837.	4.0	38
49	Texture evolution in PLD grown ferroelectric Strontium Barium Niobate (SBN) thin films with processing parameters. <i>Superlattices and Microstructures</i> , 2020, 148, 106732.	1.4	2
50	Refractive index tuning of SiO <sub>2</sub> for Long Range Surface Plasmon Resonance based biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112508.	5.3	17
51	Effect of laser fluence on multiferroic BiFeO <sub>3</sub> ferroelectric photovoltaic cells. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 146, 109602.	1.9	14
52	Improved electromagnetic shielding behaviour of graphene encapsulated polypyrrole-graphene nanocomposite in X-band. <i>Composites Science and Technology</i> , 2020, 192, 108113.	3.8	46
53	Electromagnetic interference shielding performance of lightweight NiFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposite in X-band frequency range. <i>Ceramics International</i> , 2020, 46, 15473-15481.	2.3	50
54	Effect of growth and electrical properties of TiO <sub>x</sub> films on microbolometer design. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6671-6678.	1.1	10

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55	Non-volatile resistive switching in WO <sub>3</sub> thin films. AIP Conference Proceedings, 2020, , .	0.3	4
56	Plasmon-Assisted Crystalline Silicon Solar Cell with TiO <sub>2</sub> as Anti-Reflective Coating. Plasmonics, 2020, 15, 1091-1101.	1.8	8
57	Long Range Surface Plasmons assisted highly sensitive and room temperature operated NO <sub>2</sub> gas sensor. Sensors and Actuators B: Chemical, 2020, 311, 127897.	4.0	31
58	Enhancement in NH <sub>3</sub> sensing performance of ZnO thin-film via gamma-irradiation. Journal of Alloys and Compounds, 2020, 830, 154641.	2.8	55
59	The role of an unintentional carbon dopant in resolving the controversial conductivity aspects in BiFeO <sub>3</sub> . Physical Chemistry Chemical Physics, 2020, 22, 10010-10026.	1.3	10
60	High performance UV photodetector based on MoS <sub>2</sub> layers grown by pulsed laser deposition technique. Journal of Alloys and Compounds, 2020, 835, 155222.	2.8	34
61	SPR studies on optical fiber coated with different plasmonic metals for fabrication of efficient biosensors. Materials Today: Proceedings, 2020, 33, 2180-2186.	0.9	6
62	Tunable electronic and magnetic properties of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{altimg="si12.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ transition metal doped Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> . Journal of Magnetism and Magnetic Materials, 2020, 509, 166893.	1.0	13
63	Mesoporous metal oxide $\pm$ -Fe <sub>2</sub> O <sub>3</sub> nanocomposites for sensing formaldehyde and ethanol at room temperature. Journal of Physics and Chemistry of Solids, 2020, 145, 109536.	1.9	21
64	Microwave absorption and reflection behaviour of polypyrrole-PMMA-Co <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocomposite in x-band. AIP Conference Proceedings, 2020, , .	0.3	0
65	Refractive Index Sensor Using Long-Range Surface Plasmon Resonance with Prism Coupler. Plasmonics, 2019, 14, 375-381.	1.8	29
66	EMI shielding of ABS composites filled with different temperature-treated equal-quantity charcoals. RSC Advances, 2019, 9, 23718-23726.	1.7	6
67	CoFe <sub>2</sub> O <sub>4</sub> nanoparticles decorated MoS <sub>2</sub> -reduced graphene oxide nanocomposite for improved microwave absorption and shielding performance. RSC Advances, 2019, 9, 21881-21892.	1.7	37
68	Influence of top metal electrode on electrical properties of pulsed laser deposited lead-free ferroelectric K <sub>0.35</sub> Na <sub>0.65</sub> NbO <sub>3</sub> thin films. Materials Science in Semiconductor Processing, 2019, 103, 104618.	1.9	3
69	Label-free amperometric biosensor for Escherichia coli O157:H7 detection. Applied Surface Science, 2019, 495, 143548.	3.1	40
70	Multiferroic BFO/BTO multilayer structures based magnetic field sensor. Physica B: Condensed Matter, 2019, 571, 1-4.	1.3	12
71	CdSe/V <sub>2</sub> O <sub>5</sub> core/shell quantum dots decorated reduced graphene oxide nanocomposite for high-performance electromagnetic interference shielding application. Nanotechnology, 2019, 30, 505704.	1.3	18
72	Tailoring in-plane magnetocrystalline anisotropy of Fe <sub>5</sub> SiB <sub>2</sub> with Cr-substitution. AIP Conference Proceedings, 2019, , .	0.3	2

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73	Strong electromagnetic wave absorption and microwave shielding in the Ni@Cu@MoS <sub>2</sub> /rGO composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18666-18677.	1.1	16
74	Antimicrobial properties of metallic nanoparticles: a qualitative analysis. <i>Materials Today: Proceedings</i> , 2019, 17, 155-160.	0.9	4
75	Optical properties of lead-free ferroelectric potassium sodium niobate (K <sub>x</sub> Na <sub>1-x</sub> NbO <sub>3</sub> ) thin films. <i>Materials Today: Proceedings</i> , 2019, 17, 34-40.	0.9	5
76	Impact of plasma dynamics on magneto optic kerr effect (MOKE) in Mn doped BFO thin films. <i>Physica B: Condensed Matter</i> , 2019, 571, 57-63.	1.3	3
77	Electro-optic (EO) effect in proton-exchanged lithium niobate: towards EO modulator. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	6
78	Rapid antibiotic susceptibility testing by resazurin using thin film platinum as a bio-electrode. <i>Journal of Microbiological Methods</i> , 2019, 162, 69-76.	0.7	23
79	Enhanced microwave absorption and suppressed reflection of polypyrrole-cobalt ferrite-graphene nanocomposite in X-band. <i>Journal of Alloys and Compounds</i> , 2019, 797, 1190-1197.	2.8	54
80	Highly sensitive and non-invasive electrochemical immunosensor for salivary cortisol detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 281-288.	4.0	63
81	Enhancement of magnetic anisotropy of Fe <sub>5</sub> PB <sub>2</sub> with W substitution: ab-initio study. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
82	Fabrication of micro-cantilever and its theoretical validation for energy harvesting applications. <i>Microsystem Technologies</i> , 2019, 25, 4249-4256.	1.2	4
83	In-situ and post deposition analysis of laser MBE deposited GaN films at varying nitrogen gas flow. <i>Vacuum</i> , 2019, 164, 72-76.	1.6	9
84	Development of polyvinylidene fluoride@graphite composites as an alternate material for electromagnetic shielding applications. <i>Materials Research Express</i> , 2019, 6, 075324.	0.8	16
85	Dynamically tuneable PLD grown SBN75 thin film based Electro optic modulator. <i>MRS Advances</i> , 2019, 4, 2265-2269.	0.5	0
86	Investigation on Physical Properties of Sn-Modified Cubic Cu <sub>2</sub> O Nanostructures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1671-1679.	0.8	0
87	<a href="http://www.w3.org/1998/Math/MathML">xmml="http://www.w3.org/1998/Math/MathML"</a> altimg="si4.gif"		

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91	Dielectric and ferroelectric studies of KNN thin film grown by pulsed laser deposition technique. Vacuum, 2019, 160, 233-237.	1.6	17
92	Multifunctional CuO Nanosheets for High-Performance Supercapacitor Electrodes with Enhanced Photocatalytic Activity. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1067-1075.	1.9	28
93	Low resistivity of pulsed laser deposited Cd Zn1-O thin films. Ceramics International, 2019, 45, 1900-1908.	2.3	3
94	Fabrication and characterization of ZnO-TiO2-PANI (ZTP) micro/nanoballs for the detection of flammable and toxic gases. Journal of Hazardous Materials, 2019, 370, 126-137.	6.5	96
95	Pyrene appended bis-triazolylated 1,4-dihydropyridine as a selective fluorogenic sensor for Cu <sup>2+</sup> . Dyes and Pigments, 2019, 161, 162-171.	2.0	26
96	ZnO nanostructure-assisted growth of (0002)-oriented GaN thin films by laser molecular beam epitaxy. Journal of Photonics for Energy, 2019, 9, 1.	0.8	3
97	Structural and dielectric properties of Cu <sub>2-x</sub> Nd <sub>x</sub> O nanostructures. AIP Conference Proceedings, 2018, , .	0.3	3
98	Development of a microfluidic electrochemical biosensor: Prospect for point-of-care cholesterol monitoring. Sensors and Actuators B: Chemical, 2018, 261, 460-466.	4.0	73
99	Highly sensitive Love wave acoustic biosensor for uric acid. Sensors and Actuators B: Chemical, 2018, 261, 169-177.	4.0	48
100	Surface plasmon resonance aided analysis of quantum wells for photonic device applications. Materials and Design, 2018, 150, 94-103.	3.3	8
101	Development of MEMS-Based Lamb Wave Acoustic Devices. IEEE Transactions on Electron Devices, 2018, 65, 1523-1528.	1.6	4
102	Characterization of Lead Zirconium Titanate thin films based multifunctional energy harvesters. Thin Solid Films, 2018, 652, 39-42.	0.8	7
103	Investigation of excess and deficiency of iron in BiFeO <sub>3</sub> . Materials Chemistry and Physics, 2018, 204, 207-215.	2.0	15
104	Growth of KNN Thin Films for Non-Linear Optical Applications. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700452.	0.8	4
105	Effect of non-magnetic Al <sup>3+</sup> doping on structural, optical, electrical, dielectric and magnetic properties of BiFeO <sub>3</sub> ceramics. Ceramics International, 2018, 44, 4711-4718.	2.3	36
106	Fabrication of surface acoustic wave based wireless NO <sub>2</sub> gas sensor. Surface and Coatings Technology, 2018, 343, 89-92.	2.2	29
107	Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. Surface and Coatings Technology, 2018, 343, 49-56.	2.2	28
108	Optical study of ZnS nano spheres with varying amount of ethylenediamine for photovoltaic application. Integrated Ferroelectrics, 2018, 194, 135-144.	0.3	7

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109	Study of electrical, dielectric and EMI shielding behavior of copper metal, copper ferrite and PVDF composite. Integrated Ferroelectrics, 2018, 194, 80-87.	0.3	12
110	MEMS-based microheaters integrated gas sensors. Integrated Ferroelectrics, 2018, 193, 72-87.	0.3	11
111	Effect of Li doping on the electronic and magnetic properties of BiFeO <sub>3</sub> by first principles. Integrated Ferroelectrics, 2018, 193, 123-128.	0.3	3
112	Effect of Pr <sup>3+</sup> substitution on structural, dielectric, electrical and magnetic properties of BiFe <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> [Bi <sub>1-x</sub> Pr <sub>x</sub> Fe <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> ], x=0.05, 0.10, 0.15] ceramics. Integrated Ferroelectrics, 2018, 193, 1-13.	0.3	3
113	WO <sub>3</sub> /BTO heterostructures based NO <sub>2</sub> sensor with enhanced response characteristics. Integrated Ferroelectrics, 2018, 193, 106-120.	0.3	1
114	Study of birefringence and electro-optic effect in SBN60 thin film. Ferroelectrics, 2018, 533, 35-42.	0.3	0
115	Fabrication of ZnO/Si lamb wave acoustic devices. Ferroelectrics, 2018, 535, 41-46.	0.3	3
116	Facile Synthesis of Porous CuO Nanosheets as High-performance NO <sub>2</sub> Gas Sensor. Integrated Ferroelectrics, 2018, 193, 59-65.	0.3	8
117	XPS resolved surface states analysis of ZnO and Ni doped ZnO films for quantum well applications. Ferroelectrics, 2018, 534, 199-205.	0.3	2
118	Novel designs of SAW devices for highly sensitive chemical sensors. Materials Today: Proceedings, 2018, 5, 15371-15375.	0.9	1
119	Laser Molecular Beam Epitaxy (LMBE) Technique grown GaN p-n junction. Materials Today: Proceedings, 2018, 5, 15361-15365.	0.9	3
120	High frequency Coplanar Microwave Resonator using ferroelectric thin film for Wireless Communication Applications. Materials Today: Proceedings, 2018, 5, 15395-15398.	0.9	2
121	To study the effect of MWCNT incorporated into PVDF-Graphite composites for EMI shielding applications. Materials Today: Proceedings, 2018, 5, 15348-15353.	0.9	11
122	Emergence of magnetism in silicene by introducing carbon atom as foreign atom in all possible ways. Integrated Ferroelectrics, 2018, 194, 53-59.	0.3	0
123	Growth of ternary Cd <sub>x</sub> Zn <sub>1-x</sub> O thin films in oxygen ambient using pulsed laser deposition. AIP Conference Proceedings, 2018, , .	0.3	1
124	A theoretical and experimental formalism of electronic structure of BFO:Cr thin films and modulation of their electrical properties upon visible light illumination. Journal of Applied Physics, 2018, 124, 155304.	1.1	9
125	Effect of top metal contact on the ferroelectric photovoltaic response of BFO thin film capacitors. Vacuum, 2018, 158, 117-120.	1.6	11
126	Development of nanostructured nickel oxide thin film matrix by rf sputtering technique for the realization of efficient bioelectrode. Vacuum, 2018, 158, 68-74.	1.6	10



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127	Structural, morphological and optical properties of BiFe <sub>0.99</sub> Cr <sub>0.01</sub> O <sub>3</sub> thin films. Vacuum, 2018, 158, 166-171.	1.6	9
128	Insight into the gas phase dissociation of CF <sub>3</sub> CH <sub>2</sub> I and its reactions with H and OH by first principles. Journal of Molecular Modeling, 2018, 24, 315.	0.8	4
129	Study of optical properties of Ce and Mn doped BiFeO <sub>3</sub> thin films using SPR technique for magnetic field sensing. Vacuum, 2018, 158, 48-51.	1.6	18
130	Observation of high magnetocrystalline anisotropy on Co doping in rare earth free Fe <sub>2</sub> P magnetic material. AIP Conference Proceedings, 2018, , .	0.3	0
131	Weak Antilocalization and Quantum Oscillations of Surface States in Topologically Nontrivial DyPdBi(110)Half Heusler alloy. Scientific Reports, 2018, 8, 9931.	1.6	15
132	Waveguide coupled surface plasmon resonance based electro optic modulation in SBN thin films. Applied Surface Science, 2018, 458, 139-144.	3.1	23
133	Demonstration of wide frequency bandwidth electro-optic response in SBN thin film waveguide. Optical Materials, 2018, 85, 26-31.	1.7	11
134	Structural, optical and photocatalytic properties of ZnO nanostructures. AIP Conference Proceedings, 2018, , .	0.3	2
135	Study of half-metallicity in BiMn <sub>x</sub> Fe <sub>1-x</sub> O <sub>3</sub> . AIP Conference Proceedings, 2018, , .	0.3	1
136	Effect of Vacancies on Structural and Magnetic Properties of BiFeO <sub>3</sub> . Advanced Science, Engineering and Medicine, 2018, 10, 741-744.	0.3	0
137	To Study the Zinc Metal Powder Filled Polyvinylidene Fluoride Composite for Electromagnetic Interference Shielding Applications. Advanced Science, Engineering and Medicine, 2018, 10, 764-766.	0.3	0
138	Nanostructured NiO-based reagentless biosensor for total cholesterol and low density lipoprotein detection. Analytical and Bioanalytical Chemistry, 2017, 409, 1995-2005.	1.9	29
139	Custom designed metal anchored SnO <sub>2</sub> sensor for H <sub>2</sub> detection. International Journal of Hydrogen Energy, 2017, 42, 4597-4609.	3.8	46
140	Reduced graphene oxide-SnO <sub>2</sub> nanocomposite thin film based CNG/PNG sensor. Sensors and Actuators B: Chemical, 2017, 245, 590-598.	4.0	18
141	Plasmonic assisted two wave mixing phenomenon for energy transfer in ferroelectric PZT film. Optical Materials, 2017, 66, 442-446.	1.7	3
142	SnO <sub>2</sub> thin film sensor having NiO catalyst for detection of SO <sub>2</sub> gas with improved response characteristics. Sensors and Actuators B: Chemical, 2017, 248, 998-1005.	4.0	44
143	Low-temperature SnO <sub>2</sub> -based conductometric SO <sub>2</sub> gas sensor. Emerging Materials Research, 2017, 6, 3-7.	0.4	2
144	Performance of magnetoelectric PZT/Ni multiferroic system for energy harvesting application. Smart Materials and Structures, 2017, 26, 035002.	1.8	37

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145	A comparative study of RGO-SnO <sub>2</sub> and MWCNT-SnO <sub>2</sub> nanocomposites based SO <sub>2</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 980-986.	4.0	110
146	Effect of manganese doping on conduction in olivine LiFePO <sub>4</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5192-5199.	1.1	20
147	Enhanced dielectric properties and suppressed leakage current density of PVDF composites flexible film through small loading of submicron Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> crystallites. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11806-11812.	1.1	20
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