

Vinay Gupta

List of Publications by Year in descending order

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544
papers

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18887

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113
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548
all docs

548
docs citations

548
times ranked

24081
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-free laminated structures for eco-friendly energy harvesters and magnetoelectric sensors. Journal of Physics and Chemistry of Solids, 2022, 160, 110306.	1.9	8
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	Optimization of Mask-Less Laser Lithography. Springer Proceedings in Materials, 2022, , 263-269.	0.1	0
4	Effect of different anode electrodes with Li(Li _{0.25} Co _{0.37} Mn _{0.38})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 SiO ₂ sensing matrix. Biosensors and Bioelectronics, 2022, 201, 113919.	5.3	15
7	Flexomagnetic effects on inhomogeneously strained multiferroics composites. Journal of Magnetism and Magnetic Materials, 2022, 553, 169274.	1.0	2
8	Optical Constants of BiI ₃ Polycrystalline Thin Films with Potential Applications in X-ray Detectors and Photovoltaic Cell. Springer Proceedings in Materials, 2022, , 115-122.	0.1	1
9	Electrocaloric Effect in PZT Thick Film for the Cooling Device Applications. Springer Proceedings in Materials, 2022, , 71-79.	0.1	0
10	Thiol-functionalized multiwall carbon nanotubes for electrochemical sensing of thallium. Materials Chemistry and Physics, 2021, 259, 124068.	2.0	12
11	Growth of highly oriented orthorhombic phase of Bi ₂ Fe ₄ O ₉ thin films by pulsed laser deposition. Materials Today: Proceedings, 2021, 47, 1646-1650.	0.9	4
12	Theoretical simulations of SAW based sensor on PVDF. Materials Today: Proceedings, 2021, 47, 1538-1541.	0.9	4
13	Study of band alignment at MoS ₂ /SiO ₂ interfaces grown by pulsed laser deposition method. Journal of Applied Physics, 2021, 129, 115303.	1.1	3
14	Study of AC conductivity and conduction mechanism in BNT-BKT-KNN ternary system. Ferroelectrics, 2021, 573, 195-200.	0.3	0
15	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
16	Enhanced interlayer coupling and efficient photodetection response of <i>in-situ</i> grown MoS ₂ -WS ₂ van der Waals heterostructures. Journal of Applied Physics, 2021, 129, .	1.1	13
17	Demonstration of efficient SBN thin film based miniaturized Mach Zehnder EO modulator. Materials Chemistry and Physics, 2021, 262, 124300.	2.0	1
18	Impact of TiO ₂ 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

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19	Enhancement in the Dielectric Property of Thick Lead Zirconium Titanate Films under UV Illumination. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000728.	0.8	1
20	High figure of merit observed in SBN thin film based EO modulator employing WCSPR technique. <i>Optics and Laser Technology</i> , 2021, 137, 106816.	2.2	4
21	Proposing a phase diagram for BNT-BKT-KNN and finding a new MPB and large strain region in the system. <i>Ferroelectrics</i> , 2021, 577, 161-169.	0.3	2
22	Hydrothermal synthesis of micro-flower like morphology aluminum-doped MoS ₂ /rGO nanohybrids for high efficient electromagnetic wave shielding materials. <i>Ceramics International</i> , 2021, 47, 15648-15660.	2.3	15
23	Investigation of optical non-linearity of lead-free ferroelectric potassium sodium niobate (K _{0.35} Na _{0.65} NbO ₃) thin films via two-wave mixing phenomenon. <i>Optics and Laser Technology</i> , 2021, 141, 107148.	2.2	6
24	Investigation of Adulteration in Milk using Surface Plasmon Resonance. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 091004.	0.9	6
25	NO ₂ Gas Sensor Based on SnSe/SnSe ₂ p-n Hetrojunction. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4779-4785.	0.9	20
26	Electromagnetic interference shielding properties of hierarchical core-shell palladium-doped MoS ₂ /CNT nanohybrid materials. <i>Ceramics International</i> , 2021, 47, 27586-27597.	2.3	5
27	Ferroelectric and magnetic domain mapping of magneto-dielectric Ce doped BiFeO ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160698.	2.8	6
28	Lossy Mode Resonance-Based Refractive Index Sensor for Sucrose Concentration Measurement. <i>IEEE Sensors Journal</i> , 2020, 20, 1217-1222.	2.4	17
29	Ferroelectric PZT thin films for photovoltaic application. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104723.	1.9	15
30	Carbonized Charcoal-Loaded PVDF Polymer Composite: A Promising EMI Shielding Material. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 465-474.	1.7	6
31	Ferroelectric Sr _{0.6} Ba _{0.4} Nb ₂ O ₆ thin film based broadband waveguide coupled surface plasmon electro-optic modulator. <i>Optics and Laser Technology</i> , 2020, 122, 105880.	2.2	4
32	Synthesis of mesoporous γ -Fe ₂ O ₃ 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
33	A comprehensive review of bilirubin determination methods with special emphasis on biosensors. <i>Process Biochemistry</i> , 2020, 89, 165-174.	1.8	22
34	Surface Plasmon Resonance assisted optical analysis of Strontium Barium Niobate thin films. <i>Applied Surface Science</i> , 2020, 501, 144178.	3.1	7
35	Thermo-optic Aided Tunability of Sr _{0.6} Ba _{0.4} Nb ₂ O ₆ Thin Film-based Electro-optic Modulator Using Waveguide Coupled SPR Modes. <i>Plasmonics</i> , 2020, 15, 661-669.	1.8	4
36	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

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37	High-efficiency microwave absorption and electromagnetic interference shielding of Cobalt-doped MoS ₂ nanosheet anchored on the surface reduced graphene oxide nanosheet. Journal of Materials Science: Materials in Electronics, 2020, 31, 19895-19909.	1.1	6
38	Influence of laser fluence in modifying energy storage property of BiFeO ₃ thin film capacitor. Journal of Energy Storage, 2020, 32, 101769.	3.9	8
39	Molybdenum Disulfide-Wrapped Carbon Nanotube-Reduced Graphene Oxide (CNT/MoS ₂ -rGO) Nanohybrids for Excellent and Fast Removal of Electromagnetic Interference Pollution. ACS Applied Materials & Interfaces, 2020, 12, 40828-40837.	4.0	38
40	Texture evolution in PLD grown ferroelectric Strontium Barium Niobate (SBN) thin films with processing parameters. Superlattices and Microstructures, 2020, 148, 106732.	1.4	2
41	Refractive index tuning of SiO ₂ for Long Range Surface Plasmon Resonance based biosensor. Biosensors and Bioelectronics, 2020, 168, 112508.	5.3	17
42	Effect of laser fluence on multiferroic BiFeO ₃ ferroelectric photovoltaic cells. Journal of Physics and Chemistry of Solids, 2020, 146, 109602.	1.9	14
43	Effect of growth and electrical properties of TiO _x films on microbolometer design. Journal of Materials Science: Materials in Electronics, 2020, 31, 6671-6678.	1.1	10
44	Non-volatile resistive switching in WO ₃ thin films. AIP Conference Proceedings, 2020, , .	0.3	4
45	Plasmon-Assisted Crystalline Silicon Solar Cell with TiO ₂ as Anti-Reflective Coating. Plasmonics, 2020, 15, 1091-1101.	1.8	8
46	Long Range Surface Plasmons assisted highly sensitive and room temperature operated NO ₂ gas sensor. Sensors and Actuators B: Chemical, 2020, 311, 127897.	4.0	31
47	Vital role of Ar ambient pressure in controlled properties of nanocrystalline CdS thin films. Journal of Materials Science: Materials in Electronics, 2020, 31, 6755-6763.	1.1	2
48	Enhancement in NH ₃ sensing performance of ZnO thin-film via gamma-irradiation. Journal of Alloys and Compounds, 2020, 830, 154641.	2.8	55
49	The role of an unintentional carbon dopant in resolving the controversial conductivity aspects in BiFeO ₃ . Physical Chemistry Chemical Physics, 2020, 22, 10010-10026.	1.3	10
50	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
51	Mesoporous metal oxide@Fe ₂ O ₃ nanocomposites for sensing formaldehyde and ethanol at room temperature. Journal of Physics and Chemistry of Solids, 2020, 145, 109536.	1.9	21
52	Microwave absorption and reflection behaviour of polypyrrole-PMMA-Co _{0.5} Ni _{0.5} Fe ₂ O ₄ nanocomposite in x-band. AIP Conference Proceedings, 2020, , .	0.3	0
53	Refractive Index Sensor Using Long-Range Surface Plasmon Resonance with Prism Coupler. Plasmonics, 2019, 14, 375-381.	1.8	29
54	MnO ₂ @Magnetic Core@Shell Structured Polyaniline Dependent Enhanced EMI Shielding Effectiveness: A Study of VRH Conduction. ChemistrySelect, 2019, 4, 9194-9210.	0.7	22

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55	EMI shielding of ABS composites filled with different temperature-treated equal-quantity charcoals. RSC Advances, 2019, 9, 23718-23726.	1.7	6
56	CoFe ₂ O ₄ nanoparticles decorated MoS ₂ -reduced graphene oxide nanocomposite for improved microwave absorption and shielding performance. RSC Advances, 2019, 9, 21881-21892.	1.7	37
57	Influence of top metal electrode on electrical properties of pulsed laser deposited lead-free ferroelectric K _{0.35} Na _{0.65} NbO ₃ thin films. Materials Science in Semiconductor Processing, 2019, 103, 104618.	1.9	3
58	Label-free amperometric biosensor for Escherichia coli O157:H7 detection. Applied Surface Science, 2019, 495, 143548.	3.1	40
59	Multiferroic BFO/BTO multilayer structures based magnetic field sensor. Physica B: Condensed Matter, 2019, 571, 1-4.	1.3	12
60	Wearable Gallium Oxide Solar-Blind Photodetectors on Muscovite Mica Having Ultrahigh Photoresponsivity and Detectivity with Added High-Temperature Functionalities. ACS Applied Electronic Materials, 2019, 1, 2463-2470.	2.0	48
61	MnO ₂ /SWCNT buckypaper for high performance supercapacitors. Journal of Energy Storage, 2019, 26, 100960.	3.9	9
62	Tailoring in-plane magnetocrystalline anisotropy of Fe ₅ SiB ₂ with Cr-substitution. AIP Conference Proceedings, 2019, , .	0.3	2
63	Strong electromagnetic wave absorption and microwave shielding in the Ni@Cu@MoS ₂ /rGO composite. Journal of Materials Science: Materials in Electronics, 2019, 30, 18666-18677.	1.1	16
64	Impact of plasma dynamics on magneto optic kerr effect (MOKE) in Mn doped BFO thin films. Physica B: Condensed Matter, 2019, 571, 57-63.	1.3	3
65	Electro-optic (EO) effect in proton-exchanged lithium niobate: towards EO modulator. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	6
66	Rapid antibiotic susceptibility testing by resazurin using thin film platinum as a bio-electrode. Journal of Microbiological Methods, 2019, 162, 69-76.	0.7	23
67	Highly sensitive and non-invasive electrochemical immunosensor for salivary cortisol detection. Sensors and Actuators B: Chemical, 2019, 293, 281-288.	4.0	63
68	Lightweight reduced graphene oxide-ZnO nanocomposite for enhanced dielectric loss and excellent electromagnetic interference shielding. Composites Part B: Engineering, 2019, 172, 234-242.	5.9	56
69	Enhancement of magnetic anisotropy of Fe ₅ PB ₂ with W substitution: ab-initio study. AIP Conference Proceedings, 2019, , .	0.3	2
70	CdS nanodroplets over silica microballs for efficient room-temperature LPG detection. Nanoscale Advances, 2019, 1, 2382-2391.	2.2	22
71	Fabrication of micro-cantilever and its theoretical validation for energy harvesting applications. Microsystem Technologies, 2019, 25, 4249-4256.	1.2	4
72	Enhancement in thermoelectric properties due to Ag nanoparticles incorporated in Bi ₂ Te ₃ matrix. Beilstein Journal of Nanotechnology, 2019, 10, 634-643.	1.5	7

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73	In-situ and post deposition analysis of laser MBE deposited GaN films at varying nitrogen gas flow. Vacuum, 2019, 164, 72-76.	1.6	9
74	High-temperature photocurrent mechanism of λ -Ga ₂ O ₃ based metal-semiconductor-metal solar-blind photodetectors. Journal of Applied Physics, 2019, 125, .	1.1	77
75	Multifunctional behavior of acceptor-cation substitution at higher doping concentration in PZT ceramics. Ceramics International, 2019, 45, 12716-12726.	2.3	26
76	Electromagnetic interference shielding effectiveness in 3D flower-like MoS ₂ -rGO/gadolinium-doped nanocomposites. Journal of Alloys and Compounds, 2019, 788, 861-872.	2.8	49
77	Evaluation of cadmium telluride (CdTe) thin films grown at different annealing temperatures for efficient terahertz generation. , 2019, , .		0
78	Dynamically tuneable PLD grown SBN75 thin film based Electro optic modulator. MRS Advances, 2019, 4, 2265-2269.	0.5	0
79	Investigation on Physical Properties of Sn-Modified Cubic Cu ₂ O Nanostructures. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1671-1679. Electrical properties of Strontium Barium Niobate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif"	0.8	0

80

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91	Highly sensitive Love wave acoustic biosensor for uric acid. Sensors and Actuators B: Chemical, 2018, 261, 169-177.	4.0	48
92	Near room temperature bismuth and lithium co-substituted BaTiO ₃ relaxor ferroelectrics family. Journal of Alloys and Compounds, 2018, 737, 821-828.	2.8	18
93	Carbon material-nanoferrite composite for radiation shielding in microwave frequency. Integrated Ferroelectrics, 2018, 186, 40-48.	0.3	5
94	Giant enhancement in ferroelectric polarization under illumination. Materials Today Communications, 2018, 14, 116-123.	0.9	13
95	Investigation of cobalt substituted M-type barium ferrite synthesized via co-precipitation method for radar absorbing material in Ku-band (12-18 GHz). Ceramics International, 2018, 44, 6370-6375.	2.3	80
96	Surface plasmon resonance aided analysis of quantum wells for photonic device applications. Materials and Design, 2018, 150, 94-103.	3.3	8
97	Radiation stability of CBD grown nanocrystalline CdS films against ion beam irradiation for solar cell applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 11013-11019.	1.1	3
98	Lightweight reduced graphene oxide-Fe ₃ O ₄ nanoparticle composite in the quest for an excellent electromagnetic interference shielding material. Nanotechnology, 2018, 29, 245203.	1.3	31
99	GaN-LIV photodetector integrated with asymmetric metal semiconductor metal structure for enhanced responsivity. Journal of Materials Science: Materials in Electronics, 2018, 29, 8958-8963.	1.1	49
100	Development of MEMS-Based Lamb Wave Acoustic Devices. IEEE Transactions on Electron Devices, 2018, 65, 1523-1528.	1.6	4
101	Characterization of Lead Zirconium Titanate thin films based multifunctional energy harvesters. Thin Solid Films, 2018, 652, 39-42.	0.8	7
102	Investigation of excess and deficiency of iron in BiFeO ₃ . Materials Chemistry and Physics, 2018, 204, 207-215.	2.0	15
103	Growth of KNN Thin Films for Non-Linear Optical Applications. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700452.	0.8	4
104	Green synthesis, characterization and antimicrobial activity of zinc oxide quantum dots using Eclipta alba. Materials Chemistry and Physics, 2018, 203, 40-48.	2.0	95
105	Effect of non-magnetic Al ³⁺ doping on structural, optical, electrical, dielectric and magnetic properties of BiFeO ₃ ceramics. Ceramics International, 2018, 44, 4711-4718.	2.3	36
106	Coupled mode surface plasmon resonance sensor: in situ detection of humidity with starch biofilm. Optical and Quantum Electronics, 2018, 50, 1.	1.5	2
107	Theoretical Analysis of the Electrical and Optical Properties of ZnS. Lecture Notes in Electrical Engineering, 2018, , 9-19.	0.3	5
108	Fabrication of surface acoustic wave based wireless NO ₂ gas sensor. Surface and Coatings Technology, 2018, 343, 89-92.	2.2	29

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109	Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. Surface and Coatings Technology, 2018, 343, 49-56.	2.2	28
110	Tunable nanostructured columnar growth of SnO ₂ for efficient detection of CO gas. Nanotechnology, 2018, 29, 065502.	1.3	21
111	Optical study of ZnS nano spheres with varying amount of ethylenediamine for photovoltaic application. Integrated Ferroelectrics, 2018, 194, 135-144.	0.3	7
112	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
113	MEMS-based microheaters integrated gas sensors. Integrated Ferroelectrics, 2018, 193, 72-87.	0.3	11
114	Effect of Li doping on the electronic and magnetic properties of BiFeO ₃ by first principles. Integrated Ferroelectrics, 2018, 193, 123-128.	0.3	3
115	Effect of Pr ³⁺ substitution on structural, dielectric, electrical and magnetic properties of BiFe _{0.80} Ti _{0.20} O ₃ [Bi _{1-x} Pr _x Fe _{0.80} Ti _{0.20} O ₃ , x=0.05, 0.10, 0.15] ceramics. Integrated Ferroelectrics, 2018, 193, 1-13.	0.3	3
116	WO ₃ /BTO heterostructures based NO ₂ sensor with enhanced response characteristics. Integrated Ferroelectrics, 2018, 193, 106-120.	0.3	1
117	Fabrication of ZnO/Si lamb wave acoustic devices. Ferroelectrics, 2018, 535, 41-46.	0.3	3
118	Facile Synthesis of Porous CuO Nanosheets as High-performance NO ₂ Gas Sensor. Integrated Ferroelectrics, 2018, 193, 59-65.	0.3	8
119	XPS resolved surface states analysis of ZnO and Ni doped ZnO films for quantum well applications. Ferroelectrics, 2018, 534, 199-205.	0.3	2
120	Novel designs of SAW devices for highly sensitive chemical sensors. Materials Today: Proceedings, 2018, 5, 15371-15375.	0.9	1
121	Laser Molecular Beam Epitaxy (LMBE) Technique grown GaN p-n junction. Materials Today: Proceedings, 2018, 5, 15361-15365.	0.9	3
122	High frequency Coplanar Microwave Resonator using ferroelectric thin film for Wireless Communication Applications. Materials Today: Proceedings, 2018, 5, 15395-15398.	0.9	2
123	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
124	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
125	Tunable blue-green emission from ZnS(Ag) nanostructures grown by hydrothermal synthesis. Journal of Materials Research, 2018, 33, 3963-3970.	1.2	23
126	Growth of ternary CdxZn1-xO thin films in oxygen ambient using pulsed laser deposition. AIP Conference Proceedings, 2018, , .	0.3	1

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127	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
128	Effect of top metal contact on the ferroelectric photovoltaic response of BFO thin film capacitors. Vacuum, 2018, 158, 117-120.	1.6	11
129	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
130	Structural, morphological and optical properties of BiFe _{0.99} Cr _{0.01} O ₃ thin films. Vacuum, 2018, 158, 166-171.	1.6	9
131	Insight into the gas phase dissociation of CF ₃ CH ₂ I and its reactions with H and OH by first principles. Journal of Molecular Modeling, 2018, 24, 315.	0.8	4
132	Detailed optical analysis of 100 keV Ni ⁷⁺ ion irradiated WO ₃ thin films using Surface Plasmon Resonance. Radiation Physics and Chemistry, 2018, 153, 51-57.	1.4	4
133	Study of optical properties of Ce and Mn doped BiFeO ₃ thin films using SPR technique for magnetic field sensing. Vacuum, 2018, 158, 48-51.	1.6	18
134	Ion beam assisted fortification of photoconduction and photosensitivity. Sensors and Actuators A: Physical, 2018, 279, 343-350.	2.0	15
135	Observation of high magnetocrystalline anisotropy on Co doping in rare earth free Fe ₂ P magnetic material. AIP Conference Proceedings, 2018, , .	0.3	0
136	Weak Antilocalization and Quantum Oscillations of Surface States in Topologically Nontrivial DyPdBi(110)Half Heusler alloy. Scientific Reports, 2018, 8, 9931.	1.6	15
137	Effect of Metal Contacts on a GaN/Sapphire-Based MSM Ultraviolet Photodetector. Journal of Electronic Materials, 2018, 47, 6086-6090.	1.0	26
138	Waveguide coupled surface plasmon resonance based electro optic modulation in SBN thin films. Applied Surface Science, 2018, 458, 139-144.	3.1	23
139	Demonstration of wide frequency bandwidth electro-optic response in SBN thin film waveguide. Optical Materials, 2018, 85, 26-31.	1.7	11
140	Structural, optical and photocatalytic properties of ZnO nanostructures. AIP Conference Proceedings, 2018, , .	0.3	2
141	Study of half-metallicity in BiMn _x Fe _{1-x} O ₃ . AIP Conference Proceedings, 2018, , .	0.3	1
142	Nanostructured NiO-based reagentless biosensor for total cholesterol and low density lipoprotein detection. Analytical and Bioanalytical Chemistry, 2017, 409, 1995-2005.	1.9	29
143	Custom designed metal anchored SnO ₂ sensor for H ₂ detection. International Journal of Hydrogen Energy, 2017, 42, 4597-4609.	3.8	46
144	Multilayer silver nanoparticles embedded in graded-index dielectric layers. Optical Materials, 2017, 66, 29-34.	1.7	14

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145	Reduced graphene oxide-SnO ₂ nanocomposite thin film based CNG/PNG sensor. Sensors and Actuators B: Chemical, 2017, 245, 590-598.	4.0	18
146	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. Applied Surface Science, 2017, 403, 707-716.	3.1	24
147	Experimental evidence of electronic polarization in a family of photo-ferroelectrics. RSC Advances, 2017, 7, 12842-12855.	1.7	39
148	Target swapping in PLD: An efficient approach for CdS/SiO ₂ and CdS:Ag(1%)/SiO ₂ nanocomposite thin films with enhanced luminescent properties. Journal of Luminescence, 2017, 186, 62-67.	1.5	10
149	Plasmonic assisted two wave mixing phenomenon for energy transfer in ferroelectric PZT film. Optical Materials, 2017, 66, 442-446.	1.7	3
150	SnO ₂ thin film sensor having NiO catalyst for detection of SO ₂ gas with improved response characteristics. Sensors and Actuators B: Chemical, 2017, 248, 998-1005.	4.0	44
151	Low-temperature SnO ₂ -based conductometric SO ₂ gas sensor. Emerging Materials Research, 2017, 6, 3-7.	0.4	2
152	Performance of magnetoelectric PZT/Ni multiferroic system for energy harvesting application. Smart Materials and Structures, 2017, 26, 035002.	1.8	37
153	Photovoltaic response of hydrothermally derived BFO ceramics. Emerging Materials Research, 2017, 6, 151-154.	0.4	1
154	A comparative study of RGO-SnO ₂ and MWCNT-SnO ₂ nanocomposites based SO ₂ gas sensors. Sensors and Actuators B: Chemical, 2017, 248, 980-986.	4.0	110
155	Effect of manganese doping on conduction in olivine LiFePO ₄ . Journal of Materials Science: Materials in Electronics, 2017, 28, 5192-5199.	1.1	20
156	Enhanced dielectric properties and suppressed leakage current density of PVDF composites flexible film through small loading of submicron Ba _{0.7} Sr _{0.3} TiO ₃ crystallites. Journal of Materials Science: Materials in Electronics, 2017, 28, 11806-11812.	1.1	20
157	Carbon monoxide (CO) optical gas sensor based on ZnO thin films. Sensors and Actuators B: Chemical, 2017, 250, 679-685.	4.0	156
158	Zn doping induced conductivity transformation in NiO films for realization of p-n homo junction diode. Journal of Applied Physics, 2017, 121, .	1.1	42
159	A contrivance based on electrochemical integration of graphene oxide nanoparticles/nickel nanoparticles for bilirubin biosensing. Biochemical Engineering Journal, 2017, 125, 238-245.	1.8	21
160	ZnO/ST-Quartz SAW resonator: An efficient NO ₂ gas sensor. Sensors and Actuators B: Chemical, 2017, 252, 840-845.	4.0	81
161	An electrochemical DNA biosensor based on Ni doped ZnO thin film for meningitis detection. Journal of Electroanalytical Chemistry, 2017, 792, 8-14.	1.9	22
162	Effect of Zr substitution on structural, magnetic, and optical properties of Bi _{0.9} Dy _{0.1} Fe _{1-x} Zr _x O ₃ multiferroic ceramics prepared by rapid liquid phase sintering method. Ceramics International, 2017, 43, 4904-4909.	2.3	7

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163	Coplanar waveguide resonator using PLZT thin film. <i>Ferroelectrics</i> , 2017, 515, 8-12.	0.3	0
164	An impedimetric response study for the efficient detection of breast cancer specific biomarker CA 15-3 using a tin oxide thin film based immunoelectrode. <i>Analytical Methods</i> , 2017, 9, 6549-6559.	1.3	11
165	Optically controlled polarization in highly oriented ferroelectric thin films. <i>Materials Research Express</i> , 2017, 4, 086402.	0.8	16
166	Tuning of structural and optical properties by sintering of multiferroic $GdMnO_3$ precursor. <i>Ferroelectrics</i> , 2017, 519, 200-208.	0.3	11
167	A Simple Paper Based Microfluidic Electrochemical Biosensor for Point-of-Care Cholesterol Diagnostics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700468.	0.8	10
168	Investigation of structural, optical, dielectric and magnetic studies of Mn substituted $BiFeO_3$ multiferroics. <i>Ceramics International</i> , 2017, 43, 13750-13758.	2.3	40
169	Fabry-perot modes enhanced pump-probe coupling in gold micro-disk patterned ruby thin film. <i>Optical Materials</i> , 2017, 72, 375-379.	1.7	4
170	A novel low-powered uric acid biosensor based on arrayed p-n junction heterostructures of ZnO thin film and CuO microclusters. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 566-575.	4.0	29
171	Influence of 100 MeV Au ⁸⁺ ion on photovoltaic response of $BiFeO_3/BaTiO_3$ multilayer structures. <i>Materials and Design</i> , 2017, 114, 345-354.	3.3	4
172	Effect of Substrate on Surface Plasmon Resonance of PLD Grown Silver Nanoparticles. <i>Springer Proceedings in Physics</i> , 2017, , 261-265.	0.1	0
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