

Monika Tomar

List of Publications by Year in descending order

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301
papers

6,012
citations

70961

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docs citations

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times ranked

6765
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon monoxide (CO) optical gas sensor based on ZnO thin films. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 679-685.	4.0	156
2	NiO nanoparticle-based urea biosensor. <i>Biosensors and Bioelectronics</i> , 2013, 41, 110-115.	5.3	149
3	SnO ₂ thin film sensor with enhanced response for NO ₂ gas at lower temperatures. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 743-752.	4.0	148
4	Flower-like ZnO nanostructure based electrochemical DNA biosensor for bacterial meningitis detection. <i>Biosensors and Bioelectronics</i> , 2014, 59, 200-207.	5.3	131
5	Metal oxide catalyst assisted SnO ₂ thin film based SO ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 282-289.	4.0	124
6	A comparative study of RGO-SnO ₂ and MWCNT-SnO ₂ nanocomposites based SO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 980-986.	4.0	110
7	Room temperature trace level detection of NO ₂ gas using SnO ₂ modified carbon nanotubes based sensor. <i>Journal of Materials Chemistry</i> , 2012, 22, 23608.	6.7	106
8	Metal clusters activated SnO ₂ thin film for low level detection of NH ₃ gas. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 410-418.	4.0	103
9	Fabrication and characterization of ZnO-TiO ₂ -PANI (ZTP) micro/nanoballs for the detection of flammable and toxic gases. <i>Journal of Hazardous Materials</i> , 2019, 370, 126-137.	6.5	96
10	Highly sensitive and selective uric acid biosensor based on RF sputtered NiO thin film. <i>Biosensors and Bioelectronics</i> , 2011, 30, 333-336.	5.3	93
11	Enhanced response characteristics of SnO ₂ thin film based NO ₂ gas sensor integrated with nanoscaled metal oxide clusters. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 735-742.	4.0	92
12	CuO thin film based uric acid biosensor with enhanced response characteristics. <i>Biosensors and Bioelectronics</i> , 2012, 38, 11-18.	5.3	85
13	ZnO/ST-Quartz SAW resonator: An efficient NO ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 840-845.	4.0	81
14	Nitrogen-doped zinc oxide thin films biosensor for determination of uric acid. <i>Analyst</i> , 2013, 138, 4353.	1.7	79
15	Synthesis of CdS nanoparticle by sol-gel method as low temperature NO ₂ sensor. <i>Materials Chemistry and Physics</i> , 2020, 239, 121975.	2.0	78
16	WO ₃ nanoclusters@SnO ₂ film gas sensor heterostructure with enhanced response for NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 675-684.	4.0	73
17	Development of a microfluidic electrochemical biosensor: Prospect for point-of-care cholesterol monitoring. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 460-466.	4.0	73
18	Zinc oxide@multiwalled carbon nanotubes hybrid nanocomposite based urea biosensor. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6392.	2.9	71

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19	ZnO–CuO composite matrix based reagentless biosensor for detection of total cholesterol. <i>Biosensors and Bioelectronics</i> , 2015, 67, 263-271.	5.3	65
20	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
21	Ferroelectric photovoltaic properties of Ce and Mn codoped BiFeO ₃ thin film. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	58
22	A low temperature operated NO ₂ gas sensor based on TeO ₂ /SnO ₂ p–n heterointerface. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 875-883.	4.0	56
23	Optical properties of WO ₃ thin films using surface plasmon resonance technique. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	56
24	Room temperature detection of NO ₂ gas using optical sensor based on surface plasmon resonance technique. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 497-503.	4.0	56
25	Optimization of excess Bi doping to enhance ferroic orders of spin casted BiFeO ₃ thin film. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	55
26	Enhancement in NH ₃ sensing performance of ZnO thin-film via gamma-irradiation. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154641.	2.8	55
27	Low temperature operating SnO ₂ thin film sensor loaded with WO ₃ micro-discs with enhanced response for NO ₂ gas. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1114-1118.	4.0	54
28	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
29	Complex dielectric constant of various biomolecules as a function of wavelength using surface plasmon resonance. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	53
30	Enhanced CO gas sensing properties of Cu doped SnO ₂ nanostructures prepared by a facile wet chemical method. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18846-18854.	1.3	52
31	Fabrication of an efficient GLAD-assisted p-NiO nanorod/n-ZnO thin film heterojunction UV photodiode. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2387.	2.7	51
32	Electromagnetic interference shielding performance of lightweight NiFe ₂ O ₄ /rGO nanocomposite in X-band frequency range. <i>Ceramics International</i> , 2020, 46, 15473-15481.	2.3	50
33	Influence of hole mobility on the response characteristics of p-type nickel oxide thin film based glucose biosensor. <i>Analytica Chimica Acta</i> , 2012, 726, 93-101.	2.6	48
34	Highly sensitive Love wave acoustic biosensor for uric acid. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 169-177.	4.0	48
35	Glad assisted synthesis of NiO nanorods for realization of enzymatic reagentless urea biosensor. <i>Biosensors and Bioelectronics</i> , 2014, 52, 196-201.	5.3	46
36	Custom designed metal anchored SnO ₂ sensor for H ₂ detection. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4597-4609.	3.8	46

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37	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
38	Temperature stability of c-axis oriented LiNbO ₃ /SiO ₂ /Si thin film layered structures. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2267-2273.	1.3	45
39	Ce-doped bismuth ferrite thin films with improved electrical and functional properties. <i>Journal of Materials Science</i> , 2014, 49, 5355-5364.	1.7	45
40	SnO ₂ thin film sensor having NiO catalyst for detection of SO ₂ gas with improved response characteristics. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 998-1005.	4.0	44
41	Zn doping induced conductivity transformation in NiO films for realization of p-n homo junction diode. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	42
42	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
43	Label-free amperometric biosensor for Escherichia coli O157:H7 detection. <i>Applied Surface Science</i> , 2019, 495, 143548.	3.1	40
44	Realization of an efficient cholesterol biosensor using ZnO nanostructured thin film. <i>Analyst</i> , The, 2012, 137, 5854.	1.7	39
45	Enhanced ferroelectric photovoltaic response of BiFeO ₃ /BaTiO ₃ multilayered structure. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	38
46	Molybdenum Disulfide-Wrapped Carbon Nanotube-Reduced Graphene Oxide (CNT/MoS ₂ -rGO) Nanohybrids for Excellent and Fast Removal of Electromagnetic Interference Pollution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40828-40837.	4.0	38
47	Raman spectroscopy of nanocrystalline Mn-doped BiFeO ₃ thin films. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 261-266.	1.3	37
48	Trap assisted space charge conduction in p-NiO/n-ZnO heterojunction diode. <i>Materials Research Bulletin</i> , 2015, 66, 123-131.	2.7	37
49	Performance of magnetoelectric PZT/Ni multiferroic system for energy harvesting application. <i>Smart Materials and Structures</i> , 2017, 26, 035002.	1.8	37
50	Distinct detection of liquor ammonia by ZnO/SAW sensor: Study of complete sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 83-90.	4.0	37
51	CoFe ₂ O ₄ nanoparticles decorated MoS ₂ -reduced graphene oxide nanocomposite for improved microwave absorption and shielding performance. <i>RSC Advances</i> , 2019, 9, 21881-21892.	1.7	37
52	Influence of samarium doping on magnetic and structural properties of M type Ba ²⁺ Co hexaferrite. <i>Ceramics International</i> , 2016, 42, 8413-8418.	2.3	36
53	Effect of non-magnetic Al ³⁺ doping on structural, optical, electrical, dielectric and magnetic properties of BiFeO ₃ ceramics. <i>Ceramics International</i> , 2018, 44, 4711-4718.	2.3	36
54	P-N Junction of NiO Thin Film for Photonic Devices. <i>IEEE Electron Device Letters</i> , 2013, 34, 81-83.	2.2	35

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55	Structural and magnetic properties of N doped ZnO thin films. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	34
56	Effect of metal oxide sensing layers on the distinct detection of ammonia using surface acoustic wave (SAW) sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 563-573.	4.0	34
57	Multiferroic properties of BiFeO ₃ /BaTiO ₃ multilayered thin films. <i>Physica B: Condensed Matter</i> , 2014, 448, 125-127.	1.3	34
58	Raman scattering and photoluminescence investigations of N doped ZnO thin films: Local vibrational modes and induced ferromagnetism. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	34
59	High performance UV photodetector based on MoS ₂ layers grown by pulsed laser deposition technique. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155222.	2.8	34
60	Sol-gel derived Ag-doped ZnO thin film for UV photodetector with enhanced response. <i>Journal of Materials Science</i> , 2013, 48, 7994-8002.	1.7	33
61	Detection of <i>Neisseria meningitidis</i> using surface plasmon resonance based DNA biosensor. <i>Biosensors and Bioelectronics</i> , 2016, 78, 106-110.	5.3	33
62	EMI shielding of MWCNT/ABS nanocomposites in contrast to graphite/ABS composites and MWCNT/PS nanocomposites. <i>RSC Advances</i> , 2016, 6, 45049-45058.	1.7	32
63	Long Range Surface Plasmons assisted highly sensitive and room temperature operated NO ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127897.	4.0	31
64	Growth and characterization of c-axis oriented LiNbO ₃ film on a transparent conducting Al:ZnO inter-layer on Si. <i>Journal of Materials Research</i> , 2004, 19, 2235-2239.	1.2	30
65	Purely hopping conduction in c-axis oriented LiNbO ₃ thin films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	30
66	Novel scheme to improve SnO ₂ /SAW sensor performance for NO ₂ gas by detuning the sensor oscillator frequency. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 154-161.	4.0	30
67	Realization of a label-free electrochemical immunosensor for detection of low density lipoprotein using NiO thin film. <i>Biosensors and Bioelectronics</i> , 2016, 80, 294-299.	5.3	30
68	Cytogenetic and hematological alterations induced by acute oral exposure of imidacloprid in female mice. <i>Drug and Chemical Toxicology</i> , 2016, 39, 59-65.	1.2	30
69	Photovoltaic effect in BiFeO ₃ /BaTiO ₃ multilayer structure fabricated by chemical solution deposition technique. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 93, 63-67.	1.9	29
70	Nanostructured NiO-based reagentless biosensor for total cholesterol and low density lipoprotein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1995-2005.	1.9	29
71	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
72	Fabrication of surface acoustic wave based wireless NO ₂ gas sensor. <i>Surface and Coatings Technology</i> , 2018, 343, 89-92.	2.2	29

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73	Refractive Index Sensor Using Long-Range Surface Plasmon Resonance with Prism Coupler. Plasmonics, 2019, 14, 375-381.	1.8	29
74	Effect of processing parameters for electrocatalytic properties of SnO ₂ thin film matrix for uric acid biosensor. Analyst, The, 2014, 139, 837.	1.7	28
75	Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. Surface and Coatings Technology, 2018, 343, 49-56.	2.2	28
76	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
77	Piezoresponse force microscopy and vibrating sample magnetometer study of single phased Mn induced multiferroic BiFeO ₃ thin film. Journal of Applied Physics, 2012, 111, .	1.1	27
78	Inducing electrocatalytic functionality in ZnO thin film by N doping to realize a third generation uric acid biosensor. Biosensors and Bioelectronics, 2014, 55, 57-65.	5.3	26
79	A highly efficient urea detection using flower-like zinc oxide nanostructures. Materials Science and Engineering C, 2015, 57, 38-48.	3.8	26
80	Origin and role of elasticity in the enhanced DMMP detection by ZnO/SAW sensor. Sensors and Actuators B: Chemical, 2015, 207, 375-382.	4.0	26
81	Surface plasmon resonance study on the optical sensing properties of tin oxide (SnO ₂) films to NH ₃ gas. Journal of Applied Physics, 2016, 119, .	1.1	26
82	Sensitive optical biosensor based on surface plasmon resonance using ZnO/Au bilayered structure. Optik, 2016, 127, 7642-7647.	1.4	26
83	Pyrene appended bis-triazolylated 1,4-dihydropyridine as a selective fluorogenic sensor for Cu ²⁺ . Dyes and Pigments, 2019, 161, 162-171.	2.0	26
84	Temperature coefficient of elastic constants of SiO ₂ over-layer on LiNbO ₃ for a temperature stable SAW device. Journal Physics D: Applied Physics, 2003, 36, 1773-1777.	1.3	25
85	Stress induced enhanced polarization in multilayer BiFeO ₃ /BaTiO ₃ structure with improved energy storage properties. AIP Advances, 2015, 5, .	0.6	25
86	Ultraviolet radiation detection by barium titanate thin films grown by sol-gel hydrothermal method. Sensors and Actuators A: Physical, 2015, 230, 175-181.	2.0	25
87	Postdeposition annealing of NiO _x thin films: A transition from n-type to p-type conductivity for short wave length optoelectronic devices. Journal of Materials Research, 2013, 28, 723-732.	1.2	23
88	Laser ablated ZnO thin film for amperometric detection of urea. Journal of Applied Physics, 2013, 114, .	1.1	23
89	Waveguide coupled surface plasmon resonance based electro optic modulation in SBN thin films. Applied Surface Science, 2018, 458, 139-144.	3.1	23
90	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

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91	Low Temperature Operated NO ₂ Gas Sensor Based on SnO ₂ –ZnO Nanocomposite Thin Film. <i>Advanced Science Letters</i> , 2014, 20, 911-916.	0.2	23
92	Study of A-site and B-site Doping on Multiferroic Properties of BFO Thin Films. <i>Ferroelectrics</i> , 2013, 454, 41-46.	0.3	22
93	An electrochemical DNA biosensor based on Ni doped ZnO thin film for meningitis detection. <i>Journal of Electroanalytical Chemistry</i> , 2017, 792, 8-14.	1.9	22
94	Temperature stable LiNbO ₃ surface acoustic wave device with diode sputtered amorphous TeO ₂ over-layer. <i>Applied Physics Letters</i> , 2005, 86, 223508.	1.5	21
95	N-doped ZnO thin film for development of magnetic field sensor based on surface plasmon resonance. <i>Optics Letters</i> , 2013, 38, 3542.	1.7	21
96	Controllable one step copper coating on carbon nanofibers for flexible cholesterol biosensor substrates. <i>Journal of Materials Chemistry B</i> , 2016, 4, 229-236.	2.9	21
97	A contrivance based on electrochemical integration of graphene oxide nanoparticles/nickel nanoparticles for bilirubin biosensing. <i>Biochemical Engineering Journal</i> , 2017, 125, 238-245.	1.8	21
98	Mesoporous metal oxide–Fe ₂ O ₃ nanocomposites for sensing formaldehyde and ethanol at room temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 145, 109536.	1.9	21
99	Effect of manganese doping on conduction in olivine LiFePO ₄ . <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5192-5199.	1.1	20
100	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. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11806-11812.	1.1	20
101	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
102	Magnetic hysteresis of cerium doped bismuth ferrite thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 333-339.	1.0	19
103	Structural and dielectric properties of PLD grown BST thin films. <i>Vacuum</i> , 2019, 159, 69-75.	1.6	19
104	Optical waveguiding and birefringence properties of sputtered zinc oxide (ZnO) thin films on glass. <i>Optical Materials</i> , 2004, 27, 241-248.	1.7	18
105	Transition from diamagnetic to ferromagnetic state in laser ablated nitrogen doped ZnO thin films. <i>AIP Advances</i> , 2015, 5, 027117.	0.6	18
106	Reduced graphene oxide-SnO ₂ nanocomposite thin film based CNG/PNG sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 590-598.	4.0	18
107	Study of optical properties of Ce and Mn doped BiFeO ₃ thin films using SPR technique for magnetic field sensing. <i>Vacuum</i> , 2018, 158, 48-51.	1.6	18
108	CdSe/V ₂ O ₅ core/shell quantum dots decorated reduced graphene oxide nanocomposite for high-performance electromagnetic interference shielding application. <i>Nanotechnology</i> , 2019, 30, 505704.	1.3	18

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109	Insight into electronic, magnetic and optical properties of magnetically ordered Bi ₂ Fe ₄ O ₉ . Journal of Magnetism and Magnetic Materials, 2019, 475, 695-702.	1.0	18
110	Nanocatalyst (Pt, Ag and CuO) Doped SnO ₂ Thin Film Based Sensors for Low Temperature Detection of NO ₂ Gas. Advanced Science Letters, 2014, 20, 1374-1377.	0.2	18
111	Fast Response Ultra-violet Photodetectors Based on Sol Gel Derived Ga-doped ZnO. Procedia Engineering, 2014, 94, 44-51.	1.2	17
112	Dielectric and ferroelectric studies of KNN thin film grown by pulsed laser deposition technique. Vacuum, 2019, 160, 233-237.	1.6	17
113	Refractive index tuning of SiO ₂ for Long Range Surface Plasmon Resonance based biosensor. Biosensors and Bioelectronics, 2020, 168, 112508.	5.3	17
114	Deposition of stress free c-axis oriented LiNbO ₃ thin film grown on (002) ZnO coated Si substrate. Journal of Applied Physics, 2012, 111, 102803.	1.1	16
115	Optical properties of the c-axis oriented LiNbO ₃ thin film. Thin Solid Films, 2012, 520, 2142-2146.	0.8	16
116	Study of energy band discontinuity in NiZnO/ZnO heterostructure using X-ray photoelectron spectroscopy. Applied Physics Letters, 2016, 108, .	1.5	16
117	Multiferroic cantilever for power generation using dual functionality. Applied Physics Letters, 2016, 109, .	1.5	16
118	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
119	Development of polyvinylidene fluoride@graphite composites as an alternate material for electromagnetic shielding applications. Materials Research Express, 2019, 6, 075324.	0.8	16
120	Reagentless uric acid biosensor based on Ni microdiscs-loaded NiO thin film matrix. Analyst, The, 2014, 139, 4606-4612.	1.7	15
121	Study on Mn-induced Jahn-Teller distortion in BiFeO ₃ thin films. Journal of Materials Science, 2014, 49, 5997-6006.	1.7	15
122	A ZnO@CNT nanocomposite based electrochemical DNA biosensor for meningitis detection. RSC Advances, 2016, 6, 76214-76222.	1.7	15
123	Investigation of excess and deficiency of iron in BiFeO ₃ . Materials Chemistry and Physics, 2018, 204, 207-215.	2.0	15
124	Weak Antilocalization and Quantum Oscillations of Surface States in Topologically Nontrivial DyPdBi(110)Half Heusler alloy. Scientific Reports, 2018, 8, 9931.	1.6	15
125	Ferroelectric PZT thin films for photovoltaic application. Materials Science in Semiconductor Processing, 2020, 105, 104723.	1.9	15
126	Hydrothermal synthesis of micro-flower like morphology aluminum-doped MoS ₂ /rGO nanohybrids for high efficient electromagnetic wave shielding materials. Ceramics International, 2021, 47, 15648-15660.	2.3	15

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127	Smartphone integrated handheld Long Range Surface Plasmon Resonance based fiber-optic biosensor with tunable SiO ₂ sensing matrix. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113919.	5.3	15
128	Enhanced Magnetic and Electric Properties of Nanocrystalline Ce Modified BFO Thin Films. <i>Ferroelectrics</i> , 2014, 470, 272-279.	0.3	14
129	Effect of ion beam irradiation on dielectric properties of BaTiO ₃ thin film using surface plasmon resonance. <i>Journal of Materials Science</i> , 2016, 51, 4055-4060.	1.7	14
130	Giant Magnetoelectric Effect in PZT Thin Film Deposited on Nickel. <i>Energy Harvesting and Systems</i> , 2016, 3, 181-188.	1.7	14
131	Effect of laser fluence on multiferroic BiFeO ₃ ferroelectric photovoltaic cells. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 146, 109602.	1.9	14
132	Development of novel MoS ₂ hydrovoltaic nanogenerators for electricity generation from moving NaCl droplet. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161058.	2.8	14
133	Tunable electronic and magnetic properties of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ transition metal doped Bi ₂ Fe ₄ O ₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 509, 166893.	1.0	13
134	Enhanced interlayer coupling and efficient photodetection response of <i>in-situ</i> grown MoS ₂ van der Waals heterostructures. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	13
135	Al:ZnO thin film: An efficient matrix for cholesterol detection. <i>Journal of Applied Physics</i> , 2012, 112, 114701.	1.1	12
136	Magneto-optical properties of BiFeO ₃ thin films using surface plasmon resonance technique. <i>Physica B: Condensed Matter</i> , 2014, 448, 120-124.	1.3	12
137	Study of electrical, dielectric and EMI shielding behavior of copper metal, copper ferrite and PVDF composite. <i>Integrated Ferroelectrics</i> , 2018, 194, 80-87.	0.3	12
138	Multiferroic BFO/BTO multilayer structures based magnetic field sensor. <i>Physica B: Condensed Matter</i> , 2019, 571, 1-4.	1.3	12
139	Enhanced electron transfer properties of NiO thin film for the efficient detection of urea. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 240, 147-155.	1.7	12
140	Thiol-functionalized multiwall carbon nanotubes for electrochemical sensing of thallium. <i>Materials Chemistry and Physics</i> , 2021, 259, 124068.	2.0	12
141	Double Schottky metal-semiconductor-metal based GaN photodetectors with improved response using laser MBE technique. <i>Journal of Materials Research</i> , 2022, 37, 457-469.	1.2	12
142	Table top surface plasmon resonance measurement system for efficient urea biosensing using ZnO thin film matrix. <i>Journal of Biomedical Optics</i> , 2016, 21, 087006.	1.4	11
143	Effect of insertion of low leakage polar layer on leakage current and multiferroic properties of BiFeO ₃ /BaTiO ₃ multilayer structure. <i>RSC Advances</i> , 2016, 6, 59150-59154.	1.7	11
144	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

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145	MEMS-based microheaters integrated gas sensors. <i>Integrated Ferroelectrics</i> , 2018, 193, 72-87.	0.3	11
146	To study the effect of MWCNT incorporated into PVDF-Graphite composites for EMI shielding applications. <i>Materials Today: Proceedings</i> , 2018, 5, 15348-15353.	0.9	11
147	Effect of top metal contact on the ferroelectric photovoltaic response of BFO thin film capacitors. <i>Vacuum</i> , 2018, 158, 117-120.	1.6	11
148	Demonstration of wide frequency bandwidth electro-optic response in SBN thin film waveguide. <i>Optical Materials</i> , 2018, 85, 26-31.	1.7	11
149	Comparison of Ferroelectric Photovoltaic Performance in BFO/BTO Multilayer Thin Film Structure Fabricated Using CSD & PLD Techniques. <i>Journal of Electronic Materials</i> , 2021, 50, 1835-1844.	1.0	11
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