Monika Tomar

List of Publications by Year in descending order

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301	6,012	71102	123424
papers	citations	41 h-index	61 g-index

304	304	304	6765
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon monoxide (CO) optical gas sensor based on ZnO thin films. Sensors and Actuators B: Chemical, 2017, 250, 679-685.	7.8	156
2	NiO nanoparticle-based urea biosensor. Biosensors and Bioelectronics, 2013, 41, 110-115.	10.1	149
3	SnO2 thin film sensor with enhanced response for NO2 gas at lower temperatures. Sensors and Actuators B: Chemical, 2011, 156, 743-752.	7.8	148
4	Flower-like ZnO nanostructure based electrochemical DNA biosensor for bacterial meningitis detection. Biosensors and Bioelectronics, 2014, 59, 200-207.	10.1	131
5	Metal oxide catalyst assisted SnO2 thin film based SO2 gas sensor. Sensors and Actuators B: Chemical, 2016, 224, 282-289.	7.8	124
6	A comparative study of RGO-SnO2 and MWCNT-SnO2 nanocomposites based SO2 gas sensors. Sensors and Actuators B: Chemical, 2017, 248, 980-986.	7.8	110
7	Room temperature trace level detection of NO2 gas using SnO2 modified carbon nanotubes based sensor. Journal of Materials Chemistry, 2012, 22, 23608.	6.7	106
8	Metal clusters activated SnO2 thin film for low level detection of NH3 gas. Sensors and Actuators B: Chemical, 2014, 194, 410-418.	7.8	103
9	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.	12.4	96
10	Highly sensitive and selective uric acid biosensor based on RF sputtered NiO thin film. Biosensors and Bioelectronics, 2011, 30, 333-336.	10.1	93
11	Enhanced response characteristics of SnO2 thin film based NO2 gas sensor integrated with nanoscaled metal oxide clusters. Sensors and Actuators B: Chemical, 2013, 181, 735-742.	7.8	92
12	CuO thin film based uric acid biosensor with enhanced response characteristics. Biosensors and Bioelectronics, 2012, 38, 11-18.	10.1	85
13	ZnO/ST-Quartz SAW resonator: An efficient NO2 gas sensor. Sensors and Actuators B: Chemical, 2017, 252, 840-845.	7.8	81
14	Nitrogen-doped zinc oxide thin films biosensor for determination of uric acid. Analyst, The, 2013, 138, 4353.	3.5	79
15	Synthesis of CdS nanoparticle by sol-gel method as low temperature NO2 sensor. Materials Chemistry and Physics, 2020, 239, 121975.	4.0	78
16	WO3 nanoclustersâ€“SnO2 film gas sensor heterostructure with enhanced response for NO2. Sensors and Actuators B: Chemical, 2013, 176, 675-684.	7.8	73
17	Development of a microfluidic electrochemical biosensor: Prospect for point-of-care cholesterol monitoring. Sensors and Actuators B: Chemical, 2018, 261, 460-466.	7.8	73
18	Zinc oxideâ€“multiwalled carbon nanotubes hybrid nanocomposite based urea biosensor. Journal of Materials Chemistry B, 2013, 1, 6392.	5.8	71

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19	ZnOâ€“CuO composite matrix based reagentless biosensor for detection of total cholesterol. Biosensors and Bioelectronics, 2015, 67, 263-271.	10.1	65
20	Highly sensitive and non-invasive electrochemical immunosensor for salivary cortisol detection. Sensors and Actuators B: Chemical, 2019, 293, 281-288.	7.8	63
21	Ferroelectric photovoltaic properties of Ce and Mn codoped BiFeO3 thin film. Journal of Applied Physics, 2014, 115, .	2.5	58
22	A low temperature operated NO2 gas sensor based on TeO2/SnO2 pâ€“n heterointerface. Sensors and Actuators B: Chemical, 2013, 176, 875-883.	7.8	56
23	Optical properties of WO3 thin films using surface plasmon resonance technique. Journal of Applied Physics, 2014, 115, .	2.5	56
24	Room temperature detection of NO2 gas using optical sensor based on surface plasmon resonance technique. Sensors and Actuators B: Chemical, 2015, 216, 497-503.	7.8	56
25	Optimization of excess Bi doping to enhance ferroic orders of spin casted BiFeO3 thin film. Journal of Applied Physics, 2014, 115, .	2.5	55
26	Enhancement in NH3 sensing performance of ZnO thin-film via gamma-irradiation. Journal of Alloys and Compounds, 2020, 830, 154641.	5.5	55
27	Low temperature operating SnO2 thin film sensor loaded with WO3 micro-discs with enhanced response for NO2 gas. Sensors and Actuators B: Chemical, 2012, 161, 1114-1118.	7.8	54
28	Enhanced microwave absorption and suppressed reflection of polypyrrole-cobalt ferrite-graphene nanocomposite in X-band. Journal of Alloys and Compounds, 2019, 797, 1190-1197.	5.5	54
29	Complex dielectric constant of various biomolecules as a function of wavelength using surface plasmon resonance. Journal of Applied Physics, 2014, 116, .	2.5	53
30	Enhanced CO gas sensing properties of Cu doped SnO₂ nanostructures prepared by a facile wet chemical method. Physical Chemistry Chemical Physics, 2016, 18, 18846-18854.	2.8	52
31	Fabrication of an efficient GLAD-assisted p-NiO nanorod/n-ZnO thin film heterojunction UV photodiode. Journal of Materials Chemistry C, 2014, 2, 2387.	5.5	51
32	Electromagnetic interference shielding performance of lightweight NiFe2O4/rGO nanocomposite in X-band frequency range. Ceramics International, 2020, 46, 15473-15481.	4.8	50
33	Influence of hole mobility on the response characteristics of p-type nickel oxide thin film based glucose biosensor. Analytica Chimica Acta, 2012, 726, 93-101.	5.4	48
34	Highly sensitive Love wave acoustic biosensor for uric acid. Sensors and Actuators B: Chemical, 2018, 261, 169-177.	7.8	48
35	Glad assisted synthesis of NiO nanorods for realization of enzymatic reagentless urea biosensor. Biosensors and Bioelectronics, 2014, 52, 196-201.	10.1	46
36	Custom designed metal anchored SnO2 sensor forÂH2 detection. International Journal of Hydrogen Energy, 2017, 42, 4597-4609.	7.1	46

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37	Improved electromagnetic shielding behaviour of graphene encapsulated polypyrrole-graphene nanocomposite in X-band. Composites Science and Technology, 2020, 192, 108113.	7.8	46
38	Temperature stability ofc-axis oriented LiNbO3/SiO2/Si thin film layered structures. Journal Physics D: Applied Physics, 2001, 34, 2267-2273.	2.8	45
39	Ce-doped bismuth ferrite thin films with improved electrical and functional properties. Journal of Materials Science, 2014, 49, 5355-5364.	3.7	45
40	SnO2 thin film sensor having NiO catalyst for detection of SO2 gas with improved response characteristics. Sensors and Actuators B: Chemical, 2017, 248, 998-1005.	7.8	44
41	Zn doping induced conductivity transformation in NiO films for realization of p-n homo junction diode. Journal of Applied Physics, 2017, 121, .	2.5	42
42	Investigation of structural, optical, dielectric and magnetic studies of Mn substituted BiFeO3 multiferroics. Ceramics International, 2017, 43, 13750-13758.	4.8	40
43	Label-free amperometric biosensor for Escherichia coli O157:H7 detection. Applied Surface Science, 2019, 495, 143548.	6.1	40
44	Realization of an efficient cholesterol biosensor using ZnO nanostructured thin film. Analyst, The, 2012, 137, 5854.	3.5	39
45	Enhanced ferroelectric photovoltaic response of BiFeO3/BaTiO3 multilayered structure. Journal of Applied Physics, 2015, 118, .	2.5	38
46	Molybdenum Disulfide-Wrapped Carbon Nanotube-Reduced Graphene Oxide (CNT/MoS₂-rGO) Nanohybrids for Excellent and Fast Removal of Electromagnetic Interference Pollution. ACS Applied Materials & Interfaces, 2020, 12, 40828-40837.	8.0	38
47	Raman spectroscopy of nanocrystalline Mn-doped BiFeO₃thin films. Journal of Experimental Nanoscience, 2013, 8, 261-266.	2.4	37
48	Trap assisted space charge conduction in p-NiO/n-ZnO heterojunction diode. Materials Research Bulletin, 2015, 66, 123-131.	5.2	37
49	Performance of magnetoelectric PZT/Ni multiferroic system for energy harvesting application. Smart Materials and Structures, 2017, 26, 035002.	3.5	37
50	Distinct detection of liquor ammonia by ZnO/SAW sensor: Study of complete sensing mechanism. Sensors and Actuators B: Chemical, 2017, 238, 83-90.	7.8	37
51	CoFe₂O₄ nanoparticles decorated MoS₂-reduced graphene oxide nanocomposite for improved microwave absorption and shielding performance. RSC Advances, 2019, 9, 21881-21892.	3.6	37
52	Influence of samarium doping on magnetic and structural properties of M type Baâ€“Co hexaferrite. Ceramics International, 2016, 42, 8413-8418.	4.8	36
53	Effect of non-magnetic Al3+ doping on structural, optical, electrical, dielectric and magnetic properties of BiFeO3 ceramics. Ceramics International, 2018, 44, 4711-4718.	4.8	36
54	P-N Junction of NiO Thin Film for Photonic Devices. IEEE Electron Device Letters, 2013, 34, 81-83.	3.9	35

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55	Structural and magnetic properties of N doped ZnO thin films. Journal of Applied Physics, 2012, 111, .	2.5	34
56	Effect of metal oxide sensing layers on the distinct detection of ammonia using surface acoustic wave (SAW) sensors. Sensors and Actuators B: Chemical, 2013, 187, 563-573.	7.8	34
57	Multiferroic properties of BiFeO3/BaTiO3 multilayered thin films. Physica B: Condensed Matter, 2014, 448, 125-127.	2.7	34
58	Raman scattering and photoluminescence investigations of N doped ZnO thin films: Local vibrational modes and induced ferromagnetism. Journal of Applied Physics, 2016, 120, .	2.5	34
59	High performance UV photodetector based on MoS2 layers grown by pulsed laser deposition technique. Journal of Alloys and Compounds, 2020, 835, 155222.	5.5	34
60	Solâ€“gel derived Ag-doped ZnO thin film for UV photodetector with enhanced response. Journal of Materials Science, 2013, 48, 7994-8002.	3.7	33
61	Detection of Neisseria meningitidis using surface plasmon resonance based DNA biosensor. Biosensors and Bioelectronics, 2016, 78, 106-110.	10.1	33
62	EMI shielding of MWCNT/ABS nanocomposites in contrast to graphite/ABS composites and MWCNT/PS nanocomposites. RSC Advances, 2016, 6, 45049-45058.	3.6	32
63	Long Range Surface Plasmons assisted highly sensitive and room temperature operated NO2 gas sensor. Sensors and Actuators B: Chemical, 2020, 311, 127897.	7.8	31
64	Growth and characterization of c-axis oriented LiNbO3 film on a transparent conducting Al:ZnO inter-layer on Si. Journal of Materials Research, 2004, 19, 2235-2239.	2.6	30
65	Purely hopping conduction in c-axis oriented LiNbO3 thin films. Journal of Applied Physics, 2009, 105, .	2.5	30
66	Novel scheme to improve SnO2/SAW sensor performance for NO2 gas by detuning the sensor oscillator frequency. Sensors and Actuators B: Chemical, 2015, 220, 154-161.	7.8	30
67	Realization of a label-free electrochemical immunosensor for detection of low density lipoprotein using NiO thin film. Biosensors and Bioelectronics, 2016, 80, 294-299.	10.1	30
68	Cytogenetic and hematological alterations induced by acute oral exposure of imidacloprid in female mice. Drug and Chemical Toxicology, 2016, 39, 59-65.	2.3	30
69	Photovoltaic effect in BiFeO3/BaTiO3 multilayer structure fabricated by chemical solution deposition technique. Journal of Physics and Chemistry of Solids, 2016, 93, 63-67.	4.0	29
70	Nanostructured NiO-based reagentless biosensor for total cholesterol and low density lipoprotein detection. Analytical and Bioanalytical Chemistry, 2017, 409, 1995-2005.	3.7	29
71	A novel low-powered uric acid biosensor based on arrayed p-n junction heterostructures of ZnO thin film and CuO microclusters. Sensors and Actuators B: Chemical, 2017, 253, 566-575.	7.8	29
72	Fabrication of surface acoustic wave based wireless NO 2 gas sensor. Surface and Coatings Technology, 2018, 343, 89-92.	4.8	29

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73	Refractive Index Sensor Using Long-Range Surface Plasmon Resonance with Prism Coupler. Plasmonics, 2019, 14, 375-381.	3.4	29
74	Effect of processing parameters for electrocatalytic properties of SnO2 thin film matrix for uric acid biosensor. Analyst, The, 2014, 139, 837.	3.5	28
75	Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. Surface and Coatings Technology, 2018, 343, 49-56.	4.8	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.	3.7	28
77	Piezoresponse force microscopy and vibrating sample magnetometer study of single phased Mn induced multiferroic BiFeO3 thin film. Journal of Applied Physics, 2012, 111, .	2.5	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.	10.1	26
79	A highly efficient urea detection using flower-like zinc oxide nanostructures. Materials Science and Engineering C, 2015, 57, 38-48.	7.3	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.	7.8	26
81	Surface plasmon resonance study on the optical sensing properties of tin oxide (SnO2) films to NH3 gas. Journal of Applied Physics, 2016, 119, .	2.5	26
82	Sensitive optical biosensor based on surface plasmon resonance using ZnO/Au bilayered structure. Optik, 2016, 127, 7642-7647.	2.9	26
83	Pyrene appended bis-triazolylated 1,4-dihydropyridine as a selective fluorogenic sensor for Cu2+. Dyes and Pigments, 2019, 161, 162-171.	3.7	26
84	Temperature coefficient of elastic constants of SiO2over-layer on LiNbO3for a temperature stable SAW device. Journal Physics D: Applied Physics, 2003, 36, 1773-1777.	2.8	25
85	Stress induced enhanced polarization in multilayer BiFeO3/BaTiO3 structure with improved energy storage properties. AIP Advances, 2015, 5, .	1.3	25
86	Ultraviolet radiation detection by barium titanate thin films grown by solâ€“gel hydrothermal method. Sensors and Actuators A: Physical, 2015, 230, 175-181.	4.1	25
87	Postdeposition annealing of NiOx 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.	2.6	23
88	Laser ablated ZnO thin film for amperometric detection of urea. Journal of Applied Physics, 2013, 114, .	2.5	23
89	Waveguide coupled surface plasmon resonance based electro optic modulation in SBN thin films. Applied Surface Science, 2018, 458, 139-144.	6.1	23
90	Rapid antibiotic susceptibility testing by resazurin using thin film platinum as a bio-electrode. Journal of Microbiological Methods, 2019, 162, 69-76.	1.6	23

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91	Low Temperature Operated NO₂ Gas Sensor Based on SnO₂â€“ZnO Nanocomposite Thin Film. Advanced Science Letters, 2014, 20, 911-916.	0.2	23
92	Study of A-site and B-site Doping on Multiferroic Properties of BFO Thin Films. Ferroelectrics, 2013, 454, 41-46.	0.6	22
93	An electrochemical DNA biosensor based on Ni doped ZnO thin film for meningitis detection. Journal of Electroanalytical Chemistry, 2017, 792, 8-14.	3.8	22
94	Temperature stable LiNbO3 surface acoustic wave device with diode sputtered amorphous TeO2 over-layer. Applied Physics Letters, 2005, 86, 223508.	3.3	21
95	N-doped ZnO thin film for development of magnetic field sensor based on surface plasmon resonance. Optics Letters, 2013, 38, 3542.	3.3	21
96	Controllable one step copper coating on carbon nanofibers for flexible cholesterol biosensor substrates. Journal of Materials Chemistry B, 2016, 4, 229-236.	5.8	21
97	A contrivance based on electrochemical integration of graphene oxide nanoparticles/nickel nanoparticles for bilirubin biosensing. Biochemical Engineering Journal, 2017, 125, 238-245.	3.6	21
98	Mesoporous metal oxideâ€“Î±-Fe2O3 nanocomposites for sensing formaldehyde and ethanol at room temperature. Journal of Physics and Chemistry of Solids, 2020, 145, 109536.	4.0	21
99	Effect of manganese doping on conduction in olivine LiFePO4. Journal of Materials Science: Materials in Electronics, 2017, 28, 5192-5199.	2.2	20
100	Enhanced dielectric properties and suppressed leakage current density of PVDF composites flexible film through small loading of submicron Ba0.7Sr0.3TiO3 crystallites. Journal of Materials Science: Materials in Electronics, 2017, 28, 11806-11812.	2.2	20
101	NO₂ Gas Sensor Based on SnSe/SnSe₂p-n Hetrojunction. Journal of Nanoscience and Nanotechnology, 2021, 21, 4779-4785.	0.9	20
102	Magnetic hysteresis of cerium doped bismuth ferrite thin films. Journal of Magnetism and Magnetic Materials, 2015, 378, 333-339.	2.3	19
103	Structural and dielectric properties of PLD grown BST thin films. Vacuum, 2019, 159, 69-75.	3.5	19
104	Optical waveguiding and birefringence properties of sputtered zinc oxide (ZnO) thin films on glass. Optical Materials, 2004, 27, 241-248.	3.6	18
105	Transition from diamagnetic to ferromagnetic state in laser ablated nitrogen doped ZnO thin films. AIP Advances, 2015, 5, 027117.	1.3	18
106	Reduced graphene oxide-SnO2 nanocomposite thin film based CNG/PNG sensor. Sensors and Actuators B: Chemical, 2017, 245, 590-598.	7.8	18
107	Study of optical properties of Ce and Mn doped BiFeO3 thin films using SPR technique for magnetic field sensing. Vacuum, 2018, 158, 48-51.	3.5	18
108	CdSe/V₂O₅ core/shell quantum dots decorated reduced graphene oxide nanocomposite for high-performance electromagnetic interference shielding application. Nanotechnology, 2019, 30, 505704.	2.6	18

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109	Insight into electronic, magnetic and optical properties of magnetically ordered Bi2Fe4O9. Journal of Magnetism and Magnetic Materials, 2019, 475, 695-702.	2.3	18
110	Nanocatalyst (Pt, Ag and CuO) Doped SnO₂ Thin Film Based Sensors for Low Temperature Detection of NO₂ 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.	3.5	17
113	Refractive index tuning of SiO2 for Long Range Surface Plasmon Resonance based biosensor. Biosensors and Bioelectronics, 2020, 168, 112508.	10.1	17
114	Deposition of stress free c-axis oriented LiNbO3 thin film grown on (002) ZnO coated Si substrate. Journal of Applied Physics, 2012, 111, 102803.	2.5	16
115	Optical properties of the c-axis oriented LiNbO3 thin film. Thin Solid Films, 2012, 520, 2142-2146.	1.8	16
116	Study of energy band discontinuity in NiZnO/ZnO heterostructure using X-ray photoelectron spectroscopy. Applied Physics Letters, 2016, 108, .	3.3	16
117	Multiferroic cantilever for power generation using dual functionality. Applied Physics Letters, 2016, 109, .	3.3	16
118	Strong electromagnetic wave absorption and microwave shielding in the Niâ€“Cu@MoS2/rGO composite. Journal of Materials Science: Materials in Electronics, 2019, 30, 18666-18677.	2.2	16
119	Development of polyvinylidene fluorideâ€“graphite composites as an alternate material for electromagnetic shielding applications. Materials Research Express, 2019, 6, 075324.	1.6	16
120	Reagentless uric acid biosensor based on Ni microdiscs-loaded NiO thin film matrix. Analyst, The, 2014, 139, 4606-4612.	3.5	15
121	Study on Mn-induced Jahnâ€“Teller distortion in BiFeO3 thin films. Journal of Materials Science, 2014, 49, 5997-6006.	3.7	15
122	A ZnOâ€“CNT nanocomposite based electrochemical DNA biosensor for meningitis detection. RSC Advances, 2016, 6, 76214-76222.	3.6	15
123	Investigation of excess and deficiency of iron in BiFeO3. Materials Chemistry and Physics, 2018, 204, 207-215.	4.0	15
124	Weak Antilocalization and Quantum Oscillations of Surface States in Topologically Nontrivial DyPdBi(110)Half Heusler alloy. Scientific Reports, 2018, 8, 9931.	3.3	15
125	Ferroelectric PZT thin films for photovoltaic application. Materials Science in Semiconductor Processing, 2020, 105, 104723.	4.0	15
126	Hydrothermal synthesis of micro-flower like morphology aluminum-doped MoS2/rGO nanohybrids for high efficient electromagnetic wave shielding materials. Ceramics International, 2021, 47, 15648-15660.	4.8	15

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127	Smartphone integrated handheld Long Range Surface Plasmon Resonance based fiber-optic biosensor with tunable SiO2 sensing matrix. Biosensors and Bioelectronics, 2022, 201, 113919.	10.1	15
128	Enhanced Magnetic and Electric Properties of Nanocrystalline Ce Modified BFO Thin Films. Ferroelectrics, 2014, 470, 272-279.	0.6	14
129	Effect of ion beam irradiation on dielectric properties of BaTiO3 thin film using surface plasmon resonance. Journal of Materials Science, 2016, 51, 4055-4060.	3.7	14
130	Giant Magnetoelectric Effect in PZT Thin Film Deposited on Nickel. Energy Harvesting and Systems, 2016, 3, 181-188.	2.7	14
131	Effect of laser fluence on multiferroic BiFeO3 ferroelectric photovoltaic cells. Journal of Physics and Chemistry of Solids, 2020, 146, 109602.	4.0	14
132	Development of novel MoS2 hydrovoltaic nanogenerators for electricity generation from moving NaCl droplet. Journal of Alloys and Compounds, 2021, 884, 161058.	5.5	14
133	Tunable electronic and magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> transition metal doped Bi2Fe4O9. Journal of Magnetism and Magnetic Materials, 2020, 509, 166893.	2.3	13
134	Enhanced interlayer coupling and efficient photodetection response of in-situ grown MoS2â€“WS2 van der Waals heterostructures. Journal of Applied Physics, 2021, 129, .	2.5	13
135	Al:ZnO thin film: An efficient matrix for cholesterol detection. Journal of Applied Physics, 2012, 112, 114701.	2.5	12
136	Magneto-optical properties of BiFeO3 thin films using surface plasmon resonance technique. Physica B: Condensed Matter, 2014, 448, 120-124.	2.7	12
137	Study of electrical, dielectric and EMI shielding behavior of copper metal, copper ferrite and PVDF composite. Integrated Ferroelectrics, 2018, 194, 80-87.	0.7	12
138	Multiferroic BFO/BTO multilayer structures based magnetic field sensor. Physica B: Condensed Matter, 2019, 571, 1-4.	2.7	12
139	Enhanced electron transfer properties of NiO thin film for the efficient detection of urea. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 147-155.	3.5	12
140	Thiol-functionalized multiwall carbon nanotubes for electrochemical sensing of thallium. Materials Chemistry and Physics, 2021, 259, 124068.	4.0	12
141	Double Schottky metalâ€“semiconductorâ€“metal based GaN photodetectors with improved response using laser MBE technique. Journal of Materials Research, 2022, 37, 457-469.	2.6	12
142	Table top surface plasmon resonance measurement system for efficient urea biosensing using ZnO thin film matrix. Journal of Biomedical Optics, 2016, 21, 087006.	2.6	11
143	Effect of insertion of low leakage polar layer on leakage current and multiferroic properties of BiFeO₃/BaTiO₃ multilayer structure. RSC Advances, 2016, 6, 59150-59154.	3.6	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. Analytical Methods, 2017, 9, 6549-6559.	2.7	11

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145	MEMS-based microheaters integrated gas sensors. Integrated Ferroelectrics, 2018, 193, 72-87.	0.7	11
146	To study the effect of MWCNT incorporated into PVDF-Graphite composites for EMI shielding applications. Materials Today: Proceedings, 2018, 5, 15348-15353.	1.8	11
147	Effect of top metal contact on the ferroelectric photovoltaic response of BFO thin film capacitors. Vacuum, 2018, 158, 117-120.	3.5	11
148	Demonstration of wide frequency bandwidth electro-optic response in SBN thin film waveguide. Optical Materials, 2018, 85, 26-31.	3.6	11
149	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.	2.2	11
150	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.	3.6	11
151	A Simple Paper Based Microfluidic Electrochemical Biosensor for Pointâ€ofâ€Care Cholesterol Diagnostics. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700468.	1.8	10
152	Development of nanostructured nickel oxide thin film matrix by rf sputtering technique for the realization of efficient bioelectrode. Vacuum, 2018, 158, 68-74.	3.5	10
153	Effect of growth and electrical properties of TiOx films on microbolometer design. Journal of Materials Science: Materials in Electronics, 2020, 31, 6671-6678.	2.2	10
154	The role of an unintentional carbon dopant in resolving the controversial conductivity aspects in BiFeO₃. Physical Chemistry Chemical Physics, 2020, 22, 10010-10026.	2.8	10
155	Realization of low-power and high mobility thin film transistors based on MoS2 layers grown by PLD technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 266, 115047.	3.5	10
156	Efficient detection of cholesterol using ZnO thin film based matrix. Journal of Experimental Nanoscience, 2013, 8, 280-287.	2.4	9
157	Influence of stress in ZnO thin films on its biosensing application. Enzyme and Microbial Technology, 2015, 79-80, 63-69.	3.2	9
158	Influence of immobilization strategies on biosensing response characteristics: A comparative study. Enzyme and Microbial Technology, 2016, 82, 144-150.	3.2	9
159	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.	2.5	9
160	Structural, morphological and optical properties of BiFe0.99Cr0.01O3 thin films. Vacuum, 2018, 158, 166-171.	3.5	9
161	In-situ and post deposition analysis of laser MBE deposited GaN films at varying nitrogen gas flow. Vacuum, 2019, 164, 72-76.	3.5	9
162	Investigation of cadmium-incorporated ZnO thin films for photodetector applications. Superlattices and Microstructures, 2021, 151, 106812.	3.1	9

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163	Temperature Dependent Optical Properties of c axis Oriented LiNbO$_{3}$ Thin Film Using Surface Plasmon Resonance. Journal of Lightwave Technology, 2010, 28, 3004-3011.	4.6	8
164	Efficient detection of total cholesterol using (ChEtâ€“ChOx/ZnO/Pt/Si) bioelectrode based on ZnO matrix. Thin Solid Films, 2014, 562, 612-620.	1.8	8
165	Long range surface plasmon resonance (LRSPR) based highly sensitive refractive index sensor using Kretschmann prism coupling arrangement. AIP Conference Proceedings, 2016, , .	0.4	8
166	Surface plasmon resonance aided analysis of quantum wells for photonic device applications. Materials and Design, 2018, 150, 94-103.	7.0	8
167	Facile Synthesis of Porous CuO Nanosheets as High-performance NO₂ Gas Sensor. Integrated Ferroelectrics, 2018, 193, 59-65.	0.7	8
168	Influence of laser fluence in modifying energy storage property of BiFeO3 thin film capacitor. Journal of Energy Storage, 2020, 32, 101769.	8.1	8
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