

vidya n Singh

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180
papers

5,076
citations

36
h-index

65
g-index

192
ext. papers

5,790
ext. citations

4
avg, IF

5.8
L-index

#	Paper	IF	Citations
180	Rapid synthesis of silver nanoparticles using dried medicinal plant of basil. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 81, 81-6	6	439
179	Improved nanoindentation and microwave shielding properties of modified MWCNT reinforced polyurethane composites. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9138	13	244
178	Structural, magnetic, dielectric and optical properties of nickel ferrite nanoparticles synthesized by co-precipitation method. <i>Journal of Molecular Structure</i> , 2014 , 1076, 55-62	3.4	208
177	High permittivity polyaniline-barium titanate nanocomposites with excellent electromagnetic interference shielding response. <i>Nanoscale</i> , 2013 , 5, 4330-6	7.7	201
176	Faster response of NO ₂ sensing in graphene-WO ₃ nanocomposites. <i>Nanotechnology</i> , 2012 , 23, 205501	3.4	200
175	MnO ₂ decorated graphene nanoribbons with superior permittivity and excellent microwave shielding properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4256	13	189
174	Biosynthesis of Silver Nanoparticles from <i>Desmodium triflorum</i> : A Novel Approach Towards Weed Utilization. <i>Biotechnology Research International</i> , 2011 , 2011, 454090		148
173	Synthesis and characterization of ultra-fine Y ₂ O ₃ :Eu ³⁺ nanophosphors for luminescent security ink applications. <i>Nanotechnology</i> , 2010 , 21, 055607	3.4	140
172	Microwave-assisted synthesis and characterization of flower shaped zinc oxide nanostructures. <i>Materials Letters</i> , 2009 , 63, 242-245	3.3	111
171	Conducting ferrofluid: a high-performance microwave shielding material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13159	13	92
170	Synthesis and characterization of TiO ₂ doped polyaniline composites for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6343-6355	6.7	90
169	Microwave-assisted synthesis and investigation of SnO ₂ nanoparticles. <i>Materials Letters</i> , 2009 , 63, 896-898	3.3	85
168	On the origin of photoluminescence in indium oxide octahedron structures. <i>Applied Physics Letters</i> , 2008 , 92, 171907	3.4	85
167	Room temperature lead-free relaxor antiferroelectric electroceramics for energy storage applications. <i>RSC Advances</i> , 2014 , 4, 22840-22847	3.7	84
166	Microwave shielding properties of Co/Ni attached to single walled carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13203-13209	13	84
165	Fast response and recovery of hydrogen sensing in Pd-Pt nanoparticle-graphene composite layers. <i>Nanotechnology</i> , 2011 , 22, 275719	3.4	82
164	Effect of nanoparticle size on sessile droplet contact angle. <i>Journal of Applied Physics</i> , 2008 , 103, 084315	5.5	75

163	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 1060-1069	8.5	71
162	Enhanced microwave shielding and mechanical properties of high loading MWCNT/epoxy composites. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	67
161	Solvent Free, Efficient, Industrially Viable, Fast Dispersion Process Based Amine Modified MWCNT Reinforced Epoxy Composites Of Superior Mechanical Properties. <i>Advanced Materials Letters</i> , 2015 , 6, 104-113	2.4	58
160	Room temperature growth of wafer-scale silicon nanowire arrays and their Raman characteristics. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2267-2276	2.3	57
159	Enhanced gas sensing properties of In ₂ O ₃ :Ag composite nanoparticle layers; electronic interaction, size and surface induced effects. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 482-488	8.5	56
158	Ferroelectric polymer-ceramic composite thick films for energy storage applications. <i>AIP Advances</i> , 2014 , 4, 087117	1.5	54
157	Multifunctional, robust, light-weight, free-standing MWCNT/phenolic composite paper as anodes for lithium ion batteries and EMI shielding material. <i>RSC Advances</i> , 2014 , 4, 33168-33174	3.7	52
156	Conjugated polymer nanocomposites: Synthesis, dielectric, and microwave absorption studies. <i>Journal of Applied Physics</i> , 2009 , 106, 044305	2.5	48
155	Excellent mechanical properties of long multiwalled carbon nanotube bridged Kevlar fabric. <i>Carbon</i> , 2018 , 137, 104-117	10.4	47
154	Highly sensitive and pulse-like response toward ethanol of Nb doped TiO ₂ nanorods based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 899-906	8.5	47
153	Superior nano-mechanical properties of reduced graphene oxide reinforced polyurethane composites. <i>RSC Advances</i> , 2015 , 5, 16921-16930	3.7	43
152	Highly luminescent-paramagnetic nanophosphor probes for in vitro high-contrast imaging of human breast cancer cells. <i>Small</i> , 2012 , 8, 3028-34	11	43
151	Controlled substitution of S by Se in reactively sputtered CZTSSe thin films for solar cells. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 595-600	5.7	41
150	Hybrid materials of ZnO nanostructures with reduced graphene oxide and gold nanoparticles: enhanced photodegradation rates in relation to their composition and morphology. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1478-86	3.6	41
149	Mechanical and electrical properties of high performance MWCNT/polycarbonate composites prepared by an industrial viable twin screw extruder with back flow channel. <i>RSC Advances</i> , 2014 , 4, 64649-64658	2.7	41
148	Fast switching response of Na-doped CZTS photodetector from visible to NIR range. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 28-34	6.4	41
147	Synthesis and characterization of monodispersed orthorhombic manganese oxide nanoparticles produced by Bacillus sp. cells simultaneous to its bioremediation. <i>Journal of Hazardous Materials</i> , 2011 , 192, 620-7	12.8	40
146	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. <i>RSC Advances</i> , 2014 , 4, 54936-54947	3.7	39

145	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO ₂ Nanotubes 3D Arrays. <i>Scientific Reports</i> , 2015 , 5, 11612	4.9	38
144	Enhanced photoresponse of Cu ₂ ZnSn(S, Se) ₄ based photodetector in visible range. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 119-123	5.7	35
143	Influence of Zn substitution on structural, microstructural and dielectric properties of nanocrystalline nickel ferrites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 167, 187-192	3.1	31
142	Pulse-like highly selective gas sensors based on ZnO nanostructures synthesized by a chemical route: Effect of in doping and Pd loading. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 678-684	8.5	30
141	Control of Magnetism in Cobalt Nanoparticles by Oxygen Passivation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13882-13885	3.8	30
140	Growth of CZTS Thin Films by Cosputtering of Metal Targets and Sulfurization in H ₂ S. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	29
139	Nanostructured Cu ₂ ZnSnS ₄ (CZTS) thin film for self-powered broadband photodetection. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 285-290	5.7	29
138	Physical principles of losses in thin film solar cells and efficiency enhancement methods. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 40, 214-223	16.2	28
137	Sodium induced grain growth, defect passivation and enhancement in the photovoltaic properties of Cu ₂ ZnSnS ₄ thin film solar cell. <i>Materials Chemistry and Physics</i> , 2016 , 177, 293-298	4.4	28
136	Effect of temperature on thermal expansion and anharmonicity in Cu ₂ ZnSnS ₄ thin films grown by co-sputtering and sulfurization. <i>Materials Chemistry and Physics</i> , 2014 , 146, 452-455	4.4	26
135	Large-scale synthesis, characterization and photoluminescence properties of amorphous silica nanowires by thermal evaporation of silicon monoxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1545-1549	3	26
134	Synthesis and Characterization of Tin Oxide Nanoparticle for Humidity Sensor Applications. <i>Journal of Nano Research</i> , 2009 , 4, 91-101	1	25
133	Compositional Tailoring for Realizing High Thermoelectric Performance in Hafnium-Free n-Type ZrNiSn Half-Heusler Alloys. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47830-47836	9.5	24
132	Electrical characterization of grain boundaries of CZTS thin films using conductive atomic force microscopy techniques. <i>Materials Research Bulletin</i> , 2015 , 70, 373-378	5.1	24
131	Na incorporated improved properties of Cu ₂ ZnSnS ₄ (CZTS) thin film by DC sputtering. <i>Vacuum</i> , 2018 , 154, 148-153	3.7	24
130	Enhanced electrochemical biosensing efficiency of silica particles supported on partially reduced graphene oxide for sensitive detection of cholesterol. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 757, 65-72	4.1	23
129	Large scale production of three dimensional carbon nanotube pillared graphene network for bi-functional optical properties. <i>Carbon</i> , 2014 , 78, 147-155	10.4	23
128	Nanoparticle formation by swift heavy ion irradiation of indium oxide thin film. <i>Nanotechnology</i> , 2008 , 19, 175606	3.4	23

127	Tin-selenide as a futuristic material: properties and applications.. <i>RSC Advances</i> , 2021 , 11, 6477-6503	3.7	23
126	Design of MWCNT bucky paper reinforced PANI/BSA/DVB composites with superior electrical and mechanical properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12396-12406	7.1	23
125	Tunable synthesis of indium oxide octahedra, nanowires and tubular nanoarrow structures under oxidizing and reducing ambients. <i>Nanotechnology</i> , 2009 , 20, 235608	3.4	22
124	Enhanced electron emission from titanium coated multiwalled carbon nanotubes. <i>Thin Solid Films</i> , 2010 , 518, 6915-6920	2.2	22
123	New insight into the shape-controlled synthesis and microwave shielding properties of iron oxide covered with reduced graphene oxide. <i>RSC Advances</i> , 2014 , 4, 62413-62422	3.7	21
122	Resistive switching mechanism in delafossite-transition metal oxide (CuInO ₂ /RuO) bilayer structure. <i>Journal of Applied Physics</i> , 2010 , 107, 103703	2.5	20
121	Size- and shape-controlled synthesis and properties of colloidal PbSe nanocrystals. <i>Materials Chemistry and Physics</i> , 2009 , 113, 107-114	4.4	20
120	Effect Of Annealing Time On The Composition, Microstructure And Band Gap Of Copper Zinc Tin Sulfide Thin Films. <i>Advanced Materials Letters</i> , 2015 , 6, 2-7	2.4	20
119	Highly Stabilized Monodispersed Citric Acid Capped $\text{ZnO}:\text{Cu}^{2+}$ Nanoparticles: Synthesis and Characterization for Their Applications in White Light Generation From UV LEDs. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 163-169	2.6	19
118	Microwave-assisted synthesis, characterization and ammonia sensing properties of polymer-capped star-shaped zinc oxide nanostructures. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3327-3334	2.3	19
117	Effect of NaF evaporation on morphological and structural properties of Cu ₂ ZnSnSe ₄ (CZTSe) thin film deposited by sputtering from a single compound target. <i>Journal of Alloys and Compounds</i> , 2017 , 718, 231-235	5.7	18
116	Defect Engineering for Enhancement of Thermoelectric Performance of (Zr, Hf)NiSn-Based n-type Half-Heusler Alloys. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8584-8593	3.8	18
115	Microwave sintering of dielectric CaCu ₃ Ti ₄ O ₁₂ : An interfacial conductance and dipole relaxation effect. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 428-432	5.7	18
114	Structural, electrical and gas-sensing properties of In ₂ O ₃ : Ag composite nanoparticle layers 2005 , 65, 949-958		18
113	Nanoparticle size-dependent lowering of temperature for phase transition from In(OH) ₃ to In ₂ O ₃ . <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 431-5	1.3	18
112	Synthesis, structural and field emission properties of multiwall carbon nanotube-graphene-like nanocarbon hybrid films grown by microwave plasma enhanced chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2015 , 156, 38-46	4.4	17
111	Partially reduced graphene oxide-gold nanorods composite based bioelectrode of improved sensing performance. <i>Talanta</i> , 2015 , 144, 745-54	6.2	17
110	Detailed dynamic rheological studies of multiwall carbon nanotube-reinforced acrylonitrile butadiene styrene composite. <i>Journal of Materials Science</i> , 2016 , 51, 2643-2652	4.3	17

109	Self-catalytic synthesis, structure and properties of ultra-fine luminescent ZnO nanostructures for field emission applications. <i>Nanotechnology</i> , 2010 , 21, 225709	3.4	17
108	Cd-Free Zn(O,S) as Alternative Buffer Layer for Chalcogenide and Kesterite Based Thin Films Solar Cells: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 3622-3635	1.3	17
107	Potential Role of Kesterites in Development of Earth-Abundant Elements-Based Next Generation Technology. <i>Solar Rrl</i> , 2021 , 5, 2000815	7.1	17
106	Effect of Substrate Morphology on Growth and Field Emission Properties of Carbon Nanotube Films. <i>Nanoscale Research Letters</i> , 2008 , 3, 205-212	5	16
105	Origin of radial breathing mode in multiwall carbon nanotubes synthesized by catalytic chemical vapor deposition. <i>Carbon</i> , 2014 , 66, 724-726	10.4	15
104	Electrical and optical properties of Sn doped CuInO ₂ thin films: Conducting atomic force microscopy and spectroscopic ellipsometry studies. <i>Journal of Applied Physics</i> , 2009 , 106, 053709	2.5	15
103	One-pot synthesis of oleic acid-capped cadmium chalcogenides (CdE: E = Se, Te) nano-crystals. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 101-109	2.3	15
102	Size-dependent gas sensing properties of indium oxide nanoparticle layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1930-4	1.3	15
101	Highly responsive, low-bias operated SnSe ₂ nanostructured thin film for trap-assisted NIR photodetector. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155384	5.7	14
100	Investigation of the Photophysical and Electrical Characteristics of CuInS ₂ QDs/SWCNT Hybrid Nanostructure. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11409-11416	3.8	14
99	Synthesis and properties of nanocrystalline copper indium oxide thin films deposited by RF magnetron sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3889-94	1.3	14
98	Tuning the Thermoelectric Material's Parameter: A Comprehensive Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 3636-3646	1.3	14
97	Films of Reduced Graphene Oxide with Metal Oxide Nanoparticles Formed at a Liquid/Liquid Interface as Reusable Surface Enhanced Raman Scattering Substrates for Dyes. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2711-719	1.3	13
96	Electro-mechanical properties of free standing micro- and nano-scale polymer-ceramic composites for energy density capacitors. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 698-705	5.7	13
95	Synthesis of benzimidazole-grafted graphene oxide/multi-walled carbon nanotubes composite for supercapacitance application. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 343-348	5.7	13
94	Growth of Nanocrystalline CaCu ₃ Ti ₄ O ₁₂ Ceramic by the Microwave Flash Combustion Method: Structural and Impedance Spectroscopic Studies. <i>Crystal Growth and Design</i> , 2015 , 15, 1374-1379	3.5	13
93	Surface modification of CdSe quantum dots for biosensing applications: Role of ligands. <i>Thin Solid Films</i> , 2010 , 519, 1202-1212	2.2	13
92	Multiwalled HgX (X = S, Se, Te) Nanotubes Formed with a Mercury Iodide Catalyst in Nanocrystalline Thin Films Spray-Deposited at Low Temperature. <i>Advanced Materials</i> , 2008 , 20, 1945-1954	2.4	13

91	In-situ Conversion of Multiwalled Carbon Nanotubes to Graphene Nanosheets: An Increasing Capacity Anode for Li Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 231, 255-263	6.7	12
90	Structural and opto-electronic features of pulsed laser ablation grown Cu ₂ ZnSnS ₄ films for photovoltaic applications. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 324-330	5.7	12
89	Tunable Growth of Indium Oxide from Nanoflute to Metal-Filled Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5450-5455	3.8	12
88	The role of stoichiometry of indium and oxygen on gas sensing properties of indium oxide nanostructures. <i>Applied Physics Letters</i> , 2010 , 96, 123114	3.4	12
87	Ge nanocrystals embedded in a GeO _x matrix formed by thermally annealing of Ge oxide films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009 , 27, 731-733	2.9	12
86	Bioprospecting AgNPs from Wild Desmodium Species. <i>Journal of Bionanoscience</i> , 2009 , 3, 97-104		12
85	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6261-6271	3.8	11
84	Yellow emitting magic-size cadmium selenide nanocrystals via a simplified spray pyrolysis method. <i>Current Applied Physics</i> , 2011 , 11, 809-811	2.6	11
83	Photovoltaic response of a topotaxially formed CdS-Cu(x)S single nanorod heterojunction. <i>Nanotechnology</i> , 2011 , 22, 135701	3.4	11
82	High-speed, low-bias operated, broadband (Vis-NIR) photodetector based on sputtered Cu ₂ ZnSn(S, Se) ₄ (CZTSSe) thin films. <i>Sensors and Actuators A: Physical</i> , 2020 , 314, 112231	3.9	11
81	A review on properties, applications, and deposition techniques of antimony selenide. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111223	6.4	11
80	Hybrid Films of Ni(OH) ₂ Nanowall Networks on Reduced Graphene Oxide Prepared at a Liquid/Liquid Interface for Oxygen Evolution and Supercapacitor Applications. <i>ChemistrySelect</i> , 2019 , 4, 2519-2528	1.8	10
79	Synthesis and characterization of petal type CZTS by stacked layer reactive sputtering. <i>Superlattices and Microstructures</i> , 2015 , 88, 281-286	2.8	10
78	The role of structural defects on the transport properties of a few-walled carbon nanotube networks. <i>Applied Physics Letters</i> , 2011 , 98, 192105	3.4	10
77	Formation of water-soluble and biocompatible TOPO-capped CdSe quantum dots with efficient photoluminescence. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20 Suppl 1, S123-30	4.5	10
76	Synthesis and characterization of ferromagnetic cobalt nanospheres, nanodiscs and nanocubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5627-32	1.3	10
75	Comparison of photostability, optical and structural properties of TiO ₂ /conjugated polymer hybrid composites prepared via different methods. <i>Thin Solid Films</i> , 2010 , 519, 1100-1105	2.2	10
74	Sb ₂ Se ₃ versus Sb ₂ S ₃ solar cell: A numerical simulation. <i>Solar Energy</i> , 2021 , 228, 540-549	6.8	10

73	Determining the number of layers in graphene films synthesized by filtered cathodic vacuum arc technique. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 725-731	1.8	10
72	NO ₂ Gas Sensor Based on SnSe/SnSe ₂ Heterojunction. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 4779-4785	1.3	10
71	Green synthesis of wurtzite copper zinc tin sulfide nanocones for improved solar photovoltaic utilization. <i>Applied Nanoscience (Switzerland)</i> , 2015 , 5, 163-167	3.3	9
70	Signatures of spin-glass freezing in Co/CoO nanospheres and nanodiscs. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2512-2518	2.8	9
69	Properties of sol-gel derived YAG:Eu ³⁺ hierarchical nanostructures with their time evolution studies. <i>Journal of Applied Physics</i> , 2009 , 105, 034309	2.5	9
68	Effect of induced shape anisotropy on magnetic properties of ferromagnetic cobalt nanocubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 8088-94	1.3	9
67	Structural, Field Emission and Ammonia Gas Sensing Properties of Multiwalled Carbon Nanotube-Graphene Like Hybrid Films Deposited by Microwave Plasma Enhanced Chemical Vapor Deposition Technique. <i>Science of Advanced Materials</i> , 2015 , 7, 1424-1434	2.3	9
66	Growth of dense CNT on the multilayer graphene film by the microwave plasma enhanced chemical vapor deposition technique and their field emission properties. <i>RSC Advances</i> , 2015 , 5, 90111-90120	3.7	8
65	Effect of sputter deposited Zn precursor film thickness and annealing time on the properties of Cu ₂ ZnSnS ₄ thin films deposited by sequential reactive sputtering of metal targets. <i>Materials Science in Semiconductor Processing</i> , 2016 , 52, 38-45	4.3	8
64	Interfacial Properties of CZTS Thin Film Solar Cell. <i>Journal of Solar Energy</i> , 2014 , 2014, 1-8		8
63	Magnetic field assisted hydrothermal synthesis of CoFe ₂ O ₄ nanowires. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072093	0.3	8
62	Preparation of CdSe Quantum Dots via Thermolysis of a Novel Single Source Cd/Se Precursor Derived from Cyclohexeno-1,2,3-selenadiazole. <i>Chemistry Letters</i> , 2009 , 38, 676-677	1.7	8
61	Enhancing the Performance of an Sb ₂ Se ₃ -Based Solar Cell by Dual Buffer Layer. <i>Sustainability</i> , 2021 , 13, 12320	3.6	8
60	Silver (Ag) incorporated Cu ₂ ZnSnS ₄ thin film for improved optical and morphological properties. <i>Superlattices and Microstructures</i> , 2018 , 120, 54-59	2.8	8
59	Au/Pd Bimetallic Nanoparticles Decorated SnSe ₂ Thin Films for NO ₂ Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 4916-4920	1.3	8
58	Probing reversible photoluminescence alteration in CHNHPbBr colloidal quantum dots for luminescence-based gas sensing application. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 668-673	9.3	7
57	Growth of carbon nanotube filaments on carbon fiber cloth by catalytic chemical vapor deposition. <i>Applied Nanoscience (Switzerland)</i> , 2014 , 4, 997-1003	3.3	7
56	Growth and field emission characteristics of diamond films on macroporous silicon substrate. <i>Journal of Applied Physics</i> , 2008 , 104, 103524	2.5	7

55	Effect of Silver Addition on the Ethanol-Sensing Properties of Indium Oxide Nanoparticle Layers: Optical Absorption Study. <i>Journal of Nanomaterials</i> , 2007 , 2007, 1-5	3.2	7
54	Luminomagnetic bifunctionality of Mn(2+)-bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. <i>Nanoscale</i> , 2015 , 7, 12498-509	7.7	6
53	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. <i>RSC Advances</i> , 2017 , 7, 41486-41494	3.7	6
52	Linear Sensing Response to Ethanol by Indium Oxide Nanoparticle Layers. <i>Journal of Nanoscience</i> , 2013 , 2013, 1-4		6
51	Solvent mediated morphological control of aniline stabilized cobalt oxide nanoparticles. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 331-338	5.7	6
50	Retardation of Liquid Indium Flow in Indium Oxide Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2891-2895	3.8	6
49	Quantum confinement in amorphous InSb. <i>Scripta Materialia</i> , 2010 , 63, 97-100	5.6	6
48	A Two-Step Synthesis Procedure for In ₂ O ₃ Nanoparticle Films Having Well-Defined Particle Size. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 4226-4232	1.4	6
47	Strategy to improve the efficiency of tin selenide based solar cell: A path from 1.02 to 27.72%. <i>Solar Energy</i> , 2022 , 232, 146-153	6.8	6
46	Efficient Sb ₂ Se ₃ solar cell with a higher fill factor: A theoretical approach based on thickness and temperature. <i>Solar Energy</i> , 2021 , 230, 803-809	6.8	6
45	Low bias operated, fast response SnSe thin film Vis-NIR photodetector on glass substrate using one-step thermal evaporation technique. <i>Journal of Alloys and Compounds</i> , 2021 , 879, 160370	5.7	6
44	Enhanced electrocatalytic activity of reduced graphene oxide-Os nanoparticle hybrid films obtained at a liquid/liquid interface. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	5
43	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1864-72	3	5
42	Synthesis and oxidation stability of monosized and monocrystalline Pr nanoparticles. <i>Journal of Materials Research</i> , 2009 , 24, 2276-2285	2.5	5
41	Mixed bismuth-antimony-based double perovskite nanocrystals for solar cell application. <i>International Journal of Energy Research</i> , 2021 , 45, 16769-16780	4.5	5
40	Ultrafast excited-state dynamics of SnSe ₂ /SnSe composite thin film. <i>AIP Advances</i> , 2021 , 11, 025040	1.5	5
39	Reactive Sputtering Technique for Kesterite and Chalcogenide Based Thin Film Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7670-7681	1.3	5
38	Films and dispersions of reduced graphene oxide based Fe ₂ O ₃ nanostructure composites: Synthesis, magnetic properties and electrochemical capacitance. <i>Materials Chemistry and Physics</i> , 2018 , 209, 1-9	4.4	4

37	Substrate bias induced synthesis of flowered-like bunched carbon nanotube directly on bulk nickel. <i>Materials Research Bulletin</i> , 2016 , 74, 156-163	5.1	4
36	Electron beam induced real time rocket-type propulsion effect in indium metal filled indium oxide nanotubes. <i>Materials Letters</i> , 2012 , 68, 47-50	3.3	4
35	Effect of Annealing on Dielectric Property in Ni _{1-x} CoxFe ₂ O ₄ Nanoparticles Synthesized Using Albumen (egg white). <i>Journal of Nano Research</i> , 2009 , 6, 205-213	1	4
34	Improved Thermal Stability and Electrochemical Behavior of CNTs/Polyaniline Nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5382-5388	1.3	4
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15	In situ growth of silicon carbideCarbon nanotube composites. <i>New Journal of Chemistry</i> , 2016 , 40, 3863-3868	3.9	1
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- 1 Evolution of a weak magnetic moment in the FeNbSb based HH materials via Ni doping at Fe site. 2.8
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