vidya n Singh

List of Publications by Year in Descending Order

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	Strategy to improve the efficiency of tin selenide based solar cell: A path from 1.02 to 27.72%. *Solar Energy*, **2022**, 232, 146-153	6.8	6
179	Exploring the possibility of using MWCNTs sheets as an electrode for flexible room temperature NO2 detection. *Superlattices and Microstructures*, **2022**, 107165	2.8	0
178	Enhanced thermoelectric performance of n-type Zr0.66Hf0.34Ni1+xSn Heusler nanocomposites. *Journal of Alloys and Compounds*, **2022**, 900, 163454	5.7	2
177	Rapidly responding room temperature NO2 gas sensor based on SnSe nanostructured film. *Materials Today Communications*, **2022**, 30, 103135	2.5	1
176	Structural, Electronic and Thermoelectric Properties of Bi2Se3 Thin Films Deposited by RF Magnetron Sputtering. *Journal of Electronic Materials*, **2022**, 51, 2500-2509	1.9	2
175	Comparison of Various Thin-Film-Based Absorber Materials: A Viable Approach for Next-Generation Solar Cells. *Coatings*, **2022**, 12, 405	2.9	0
174	Temperature-Dependent n-p-n Switching and Highly Selective Room-Temperature n-SnSe/p-SnO/n-SnSe Heterojunction-Based NO Gas Sensor.. *ACS Applied Materials & Interfaces* , **2022**,	9.5	2
173	Influence of buffer layers on antimony selenide based solar cell. *Optical Materials*, **2022**, 126, 112240	3.3	0
172	Sb2Se3/CZTS dual absorber layer based solar cell with 36.32 % efficiency: A numerical simulation. *Journal of Science: Advanced Materials and Devices*, **2022**, 7, 100445	4.2	0
171	Evolution of a weak magnetic moment in the FeNbSb based HH materials via Ni doping at Fe site. *Journal of Magnetism and Magnetic Materials*, **2022**, 554, 169306	2.8	
170	Large area, self-powered, flexible, fast, and broadband photodetector enabled by the SnSe-Sb2Se3 heterostructure. *Surfaces and Interfaces*, **2022**, 101964	4.1	2
169	n-Si/p-Sb2Se3 structure based simple solar cell device. *Materials Today Sustainability*, **2022**, 100148	5	1
168	Enhanced photoconductivity performance of microrod-based Sb2Se3 device. *Solar Energy Materials and Solar Cells*, **2022**, 243, 111765	6.4	3
167	Broadband (NIR-Vis-UV) photoresponse of annealed SnSe films and effective oxidation passivation using Si protective layer. *Materials Research Bulletin*, **2022**, 153, 111913	5.1	1
166	Enhancing the Performance of an Sb2Se3-Based Solar Cell by Dual Buffer Layer. *Sustainability*, **2021** , 13, 12320	3.6	8
165	Efficient Sb2Se3 solar cell with a higher fill factor: A theoretical approach based on thickness and temperature. *Solar Energy*, **2021**, 230, 803-809	6.8	6
164	Sb2Se3 versus Sb2S3 solar cell: A numerical simulation. *Solar Energy*, **2021**, 228, 540-549	6.8	10

163	Potential Role of Kesterites in Development of Earth-Abundant Elements-Based Next Generation Technology. *Solar Rrl*, **2021**, 5, 2000815	7.1	17
162	Mixed bismuth-antimony-based double perovskite nanocrystals for solar cell application. *International Journal of Energy Research*, **2021**, 45, 16769-16780	4.5	5
161	Tin-selenide as a futuristic material: properties and applications.. *RSC Advances*, **2021**, 11, 6477-6503	3.7	23
160	Ultrafast excited-state dynamics of SnSe2/SnSe composite thin film. *AIP Advances*, **2021**, 11, 025040	1.5	5
159	Au/Pd Bimetallic Nanoparticles Decorated SnSe Thin Films for NO Detection. *Journal of Nanoscience and Nanotechnology*, **2021**, 21, 4916-4920	1.3	8
158	NO Gas Sensor Based on SnSe/SnSe Hetrojunction. *Journal of Nanoscience and Nanotechnology*, **2021**, 21, 4779-4785	1.3	10
157	A review on properties, applications, and deposition techniques of antimony selenide. *Solar Energy Materials and Solar Cells*, **2021**, 230, 111223	6.4	11
156	Low bias operated, fast response SnSe thin film Vis-NIR photodetector on glass substrate using one-step thermal evaporation technique. *Journal of Alloys and Compounds*, **2021**, 879, 160370	5.7	6
155	Highly responsive, low-bias operated SnSe2 nanostructured thin film for trap-assisted NIR photodetector. *Journal of Alloys and Compounds*, **2020**, 838, 155384	5.7	14
154	Defect Engineering for Enhancement of Thermoelectric Performance of (Zr, Hf)NiSn-Based n-type Half-Heusler Alloys. *Journal of Physical Chemistry C*, **2020**, 124, 8584-8593	3.8	18
153	Sputtered Cadmium Sulfide (CdS) Buffer Layer for Kesterite and Chalcogenide Thin Film Solar Cell (TFSC) Applications. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3909-3912	1.3	3
152	Study of the Electrical Properties of Cu ZnSnS (CZTS) Thin Film Using Atomic Force Microscopy (AFM) Techniques. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3925-3928	1.3	2
151	Functional Nanomaterials for Solar Cells. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3620-3621	13	
150	Localized Surface Plasmon Resonance Studies on Pd/C Nano-Composite System: Effect of Metal Concentration and Annealing Temperature. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3859-3865	13	
149	Cd-Free Zn(O,S) as Alternative Buffer Layer for Chalcogenide and Kesterite Based Thin Films Solar Cells: A Review. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3622-3635	1.3	17
148	Tuning the Thermoelectric Material's Parameter: A Comprehensive Review. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3636-3646	1.3	14
147	Benzoyl Halide as Alternative Precursor for Synthesis of Lead Free Double Perovskite CsBiBr Nanocrystals. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3802-3808	1.3	2
146	High-speed, low-bias operated, broadband (Vis-NIR) photodetector based on sputtered Cu2ZnSn(S, Se)4 (CZTSSe) thin films. *Sensors and Actuators A: Physical*, **2020**, 314, 112231	3.9	11

145	Compositional Tailoring for Realizing High Thermoelectric Performance in Hafnium-Free n-Type ZrNiSn Half-Heusler Alloys. *ACS Applied Materials & Interfaces*, **2019**, 11, 47830-47836	9.5	24
144	Hybrid Films of Ni(OH)2 Nanowall Networks on Reduced Graphene Oxide Prepared at a Liquid/Liquid Interface for Oxygen Evolution and Supercapacitor Applications. *ChemistrySelect*, **2019**, 4, 2519-2528	1.8	10
143	Probing reversible photoluminescence alteration in CHNHPbBr colloidal quantum dots for luminescence-based gas sensing application. *Journal of Colloid and Interface Science*, **2019**, 554, 668-673	9.3	7
142	Enhanced electrocatalytic activity of reduced graphene oxide-Os nanoparticle hybrid films obtained at a liquid/liquid interface. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	5
141	Films and dispersions of reduced graphene oxide based Fe2O3 nanostructure composites: Synthesis, magnetic properties and electrochemical capacitance. *Materials Chemistry and Physics*, **2018**, 209, 1-9	4.4	4
140	Na incorporated improved properties of Cu2ZnSnS4 (CZTS) thin film by DC sputtering. *Vacuum*, **2018**, 154, 148-153	3.7	24
139	Excellent mechanical properties of long multiwalled carbon nanotube bridged Kevlar fabric. *Carbon* , **2018**, 137, 104-117	10.4	47
138	Nanostructured Cu2ZnSnS4 (CZTS) thin film for self-powered broadband photodetection. *Journal of Alloys and Compounds*, **2018**, 735, 285-290	5.7	29
137	Design of MWCNT bucky paper reinforced PANIDBSADVB composites with superior electrical and mechanical properties. *Journal of Materials Chemistry C*, **2018**, 6, 12396-12406	7.1	23
136	Reactive Sputtering Technique for Kesterite and Chalcogenide Based Thin Film Solar Cells. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 7670-7681	1.3	5
135	Silver (Ag) incorporated Cu2ZnSnS4 thin film for improved optical and morphological properties. *Superlattices and Microstructures*, **2018**, 120, 54-59	2.8	8
134	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. *Scientific Reports*, **2017**, 7, 42515	4.9	2
133	In-situ Conversion of Multiwalled Carbon Nanotubes to Graphene Nanosheets: An Increasing Capacity Anode for Li Ion Batteries. *Electrochimica Acta*, **2017**, 231, 255-263	6.7	12
132	Films of Reduced Graphene Oxide with Metal Oxide Nanoparticles Formed at a Liquid/Liquid Interface as Reusable Surface Enhanced Raman Scattering Substrates for Dyes. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 2711-719	1.3	13
131	Effect of NaF evaporation on morphological and structural properties of Cu2ZnSnSe4 (CZTSe) thin film deposited by sputtering from a single compound target. *Journal of Alloys and Compounds*, **2017** , 718, 231-235	5.7	18
130	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. *RSC Advances*, **2017**, 7, 41486-41494	3.7	6
129	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. *Sensors and Actuators B: Chemical*, **2017**, 238, 1060-1069	8.5	71
128	Enhanced photoresponse of Cu2ZnSn(S, Se)4 based photodetector in visible range. *Journal of Alloys and Compounds*, **2017**, 694, 119-123	5.7	35

127	Effect of sputter deposited Zn precursor film thickness and annealing time on the properties of Cu2ZnSnS4 thin films deposited by sequential reactive sputtering of metal targets. *Materials Science in Semiconductor Processing*, **2016**, 52, 38-45	4.3	8
126	Substrate bias induced synthesis of flowered-like bunched carbon nanotube directly on bulk nickel. *Materials Research Bulletin*, **2016**, 74, 156-163	5.1	4
125	Detailed dynamic rheological studies of multiwall carbon nanotube-reinforced acrylonitrile butadiene styrene composite. *Journal of Materials Science*, **2016**, 51, 2643-2652	4.3	17
124	In situ growth of silicon carbide–carbon nanotube composites. *New Journal of Chemistry*, **2016**, 40, 3863-3868	3.3	1
123	Hybrid materials of ZnO nanostructures with reduced graphene oxide and gold nanoparticles: enhanced photodegradation rates in relation to their composition and morphology. *Physical Chemistry Chemical Physics*, **2016**, 18, 1478-86	3.6	41
122	Structural and opto-electronic features of pulsed laser ablation grown Cu 2 ZnSnS 4 films for photovoltaic applications. *Journal of Alloys and Compounds*, **2016**, 658, 324-330	5.7	12
121	Determining the number of layers in graphene films synthesized by filtered cathodic vacuum arc technique. *Fullerenes Nanotubes and Carbon Nanostructures*, **2016**, 24, 725-731	1.8	10
120	Fast switching response of Na-doped CZTS photodetector from visible to NIR range. *Solar Energy Materials and Solar Cells*, **2016**, 157, 28-34	6.4	41
119	Sodium induced grain growth, defect passivation and enhancement in the photovoltaic properties of Cu2ZnSnS4 thin film solar cell. *Materials Chemistry and Physics*, **2016**, 177, 293-298	4.4	28
118	Synthesis, structural and field emission properties of multiwall carbon nanotube-graphene-like nanocarbon hybrid films grown by microwave plasma enhanced chemical vapor deposition. *Materials Chemistry and Physics*, **2015**, 156, 38-46	4.4	17
117	Electro-mechanical properties of free standing micro- and nano-scale polymer-ceramic composites for energy density capacitors. *Journal of Alloys and Compounds*, **2015**, 648, 698-705	5.7	13
116	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO2 Nanotubes 3D Arrays. *Scientific Reports*, **2015**, 5, 11612	4.9	38
115	Controlled substitution of S by Se in reactively sputtered CZTSSe thin films for solar cells. *Journal of Alloys and Compounds*, **2015**, 648, 595-600	5.7	41
114	Luminomagnetic bifunctionality of Mn(2+)-bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. *Nanoscale*, **2015**, 7, 12498-509	7.7	6
113	Electrical characterization of grain boundaries of CZTS thin films using conductive atomic force microscopy techniques. *Materials Research Bulletin*, **2015**, 70, 373-378	5.1	24
112	Synthesis and characterization of petal type CZTS by stacked layer reactive sputtering. *Superlattices and Microstructures*, **2015**, 88, 281-286	2.8	10
111	Growth of dense CNT on the multilayer graphene film by the microwave plasma enhanced chemical vapor deposition technique and their field emission properties. *RSC Advances*, **2015**, 5, 90111-90120	3.7	8
110	Partially reduced graphene oxide-gold nanorods composite based bioelectrode of improved sensing performance. *Talanta*, **2015**, 144, 745-54	6.2	17

109	Enhanced electrochemical biosensing efficiency of silica particles supported on partially reduced graphene oxide for sensitive detection of cholesterol. *Journal of Electroanalytical Chemistry*, **2015**, 757, 65-72	4.1	23
108	Green synthesis of wurtzite copper zinc tin sulfide nanocones for improved solar photovoltaic utilization. *Applied Nanoscience (Switzerland)*, **2015**, 5, 163-167	3.3	9
107	Microwave shielding properties of Co/Ni attached to single walled carbon nanotubes. *Journal of Materials Chemistry A*, **2015**, 3, 13203-13209	13	84
106	Solvent Free, Efficient, Industrially Viable, Fast Dispersion Process Based Amine Modified MWCNT Reinforced Epoxy Composites Of Superior Mechanical Properties. *Advanced Materials Letters*, **2015**, 6, 104-113	2.4	58
105	Growth of Nanocrystalline CaCu3Ti4O12 Ceramic by the Microwave Flash Combustion Method: Structural and Impedance Spectroscopic Studies. *Crystal Growth and Design*, **2015**, 15, 1374-1379	3.5	13
104	Superior nano-mechanical properties of reduced graphene oxide reinforced polyurethane composites. *RSC Advances*, **2015**, 5, 16921-16930	3.7	43
103	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. *Science of Advanced Materials*, **2015**, 7, 1424-1434	2.3	9
102	Electric Field-effect-assisted Persistent Photoconductivity In CZTS. *Advanced Materials Letters*, **2015**, 6, 290-293	2.4	4
101	Effect Of Annealing Time On The Composition, Microstructure And Band Gap Of Copper Zinc Tin Sulfide Thin Films. *Advanced Materials Letters*, **2015**, 6, 2-7	2.4	20
100	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. *Journal of Physical Chemistry C*, **2014**, 118, 6261-6271	3.8	11
99	Effect of temperature on thermal expansion and anharmonicity in Cu2ZnSnS4 thin films grown by co-sputtering and sulfurization. *Materials Chemistry and Physics*, **2014**, 146, 452-455	4.4	26
98	Growth of carbon nanotube filaments on carbon fiber cloth by catalytic chemical vapor deposition. *Applied Nanoscience (Switzerland)*, **2014**, 4, 997-1003	3.3	7
97	New insight into the shape-controlled synthesis and microwave shielding properties of iron oxide covered with reduced graphene oxide. *RSC Advances*, **2014**, 4, 62413-62422	3.7	21
96	Mechanical and electrical properties of high performance MWCNT/polycarbonate composites prepared by an industrial viable twin screw extruder with back flow channel. *RSC Advances*, **2014**, 4, 64649-64658	3.7	41
95	MnO2 decorated graphene nanoribbons with superior permittivity and excellent microwave shielding properties. *Journal of Materials Chemistry A*, **2014**, 2, 4256	13	189
94	Room temperature lead-free relaxor antiferroelectric electroceramics for energy storage applications. *RSC Advances*, **2014**, 4, 22840-22847	3.7	84
93	Multifunctional, robust, light-weight, free-standing MWCNT/phenolic composite paper as anodes for lithium ion batteries and EMI shielding material. *RSC Advances*, **2014**, 4, 33168-33174	3.7	52
92	Investigation of the Photophysical and Electrical Characteristics of CuInS2 QDs/SWCNT Hybrid Nanostructure. *Journal of Physical Chemistry C*, **2014**, 118, 11409-11416	3.8	14

91	Physical principles of losses in thin film solar cells and efficiency enhancement methods. *Renewable and Sustainable Energy Reviews*, **2014**, 40, 214-223	16.2	28
90	Large scale production of three dimensional carbon nanotube pillared graphene network for bi-functional optical properties. *Carbon*, **2014**, 78, 147-155	10.4	23
89	Structural, magnetic, dielectric and optical properties of nickel ferrite nanoparticles synthesized by co-precipitation method. *Journal of Molecular Structure*, **2014**, 1076, 55-62	3.4	208
88	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. *RSC Advances*, **2014**, 4, 54936-54947	3.7	39
87	Conducting ferrofluid: a high-performance microwave shielding material. *Journal of Materials Chemistry A*, **2014**, 2, 13159	13	92
86	Synthesis of benzimidazole-grafted graphene oxide/multi-walled carbon nanotubes composite for supercapacitance application. *Journal of Alloys and Compounds*, **2014**, 612, 343-348	5.7	13
85	Three Dimensional Branched Gold Nanostructures on Reduced Graphene Oxide Films Formed at a Liquid/Liquid Interface. *Particle and Particle Systems Characterization*, **2014**, 31, 1168-1174	3.1	2
84	Band gap engineering from Vis to NIR range in CdPbS nanoparticles synthesized by one-step low-temperature decomposition of xanthate compound. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 5324-30	1.3	2
83	Interfacial Properties of CZTS Thin Film Solar Cell. *Journal of Solar Energy*, **2014**, 2014, 1-8		8
82	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. *Beilstein Journal of Nanotechnology*, **2014**, 5, 1864-72	3	5
81	Ferroelectric polymer-ceramic composite thick films for energy storage applications. *AIP Advances*, **2014**, 4, 087117	1.5	54
80	Origin of radial breathing mode in multiwall carbon nanotubes synthesized by catalytic chemical vapor deposition. *Carbon*, **2014**, 66, 724-726	10.4	15
79	One Step Deposition of Cu2ZnSnSe4 Thin Films Using a Ceramic Quaternary Target. *Advanced Science, Engineering and Medicine*, **2014**, 6, 1285-1289	0.6	3
78	Improved nanoindentation and microwave shielding properties of modified MWCNT reinforced polyurethane composites. *Journal of Materials Chemistry A*, **2013**, 1, 9138	13	244
77	Enhanced microwave shielding and mechanical properties of high loading MWCNTEpoxy composites. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	67
76	High permittivity polyaniline-barium titanate nanocomposites with excellent electromagnetic interference shielding response. *Nanoscale*, **2013**, 5, 4330-6	7.7	201
75	Growth of CZTS Thin Films by Cosputtering of Metal Targets and Sulfurization in H2S. *International Journal of Photoenergy*, **2013**, 2013, 1-7	2.1	29
74	Growth of CZTS by co-sputtering and sulfurization for solar cell applications **2013**,		1

73	Growth of indium nitride nanopetal structures on indium oxide buffer layer. *Materials Express*, **2013**, 3, 360-364	1.3	3
72	Linear Sensing Response to Ethanol by Indium Oxide Nanoparticle Layers. *Journal of Nanoscience*, **2013**, 2013, 1-4		6
71	Pulse-like highly selective gas sensors based on ZnO nanostructures synthesized by a chemical route: Effect of in doping and Pd loading. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 678-684	8.5	30
70	Signatures of spin-glass freezing in Co/CoO nanospheres and nanodiscs. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 2512-2518	2.8	9
69	Microwave sintering of dielectric CaCu3Ti4O12: An interfacial conductance and dipole relaxation effect. *Journal of Alloys and Compounds*, **2012**, 541, 428-432	5.7	18
68	Electron beam induced real time rocket-type propulsion effect in indium metal filled indium oxide nanotubes. *Materials Letters*, **2012**, 68, 47-50	3.3	4
67	Faster response of NO$_2$ sensing in graphene-WO$_3$ nanocomposites. *Nanotechnology*, **2012**, 23, 205501	3.4	200
66	Tunable Growth of Indium Oxide from Nanoflute to Metal-Filled Nanotubes. *Journal of Physical Chemistry C*, **2012**, 116, 5450-5455	3.8	12
65	Highly sensitive and pulse-like response toward ethanol of Nb doped TiO2 nanorods based gas sensors. *Sensors and Actuators B: Chemical*, **2012**, 171-172, 899-906	8.5	47
64	Highly luminescent-paramagnetic nanophosphor probes for in vitro high-contrast imaging of human breast cancer cells. *Small*, **2012**, 8, 3028-34	11	43
63	A Low-Cost Chemical Route for High Dielectric Constant Plate-Shaped Nanocrystalline CaCu3Ti4O12. *Advanced Science Letters*, **2012**, 16, 79-83	0.1	2
62	Highly Stabilized Monodispersed Citric Acid Capped $hbox{ZnO:Cu}^{2+}$ Nanoparticles: Synthesis and Characterization for Their Applications in White Light Generation From UV LEDs. *IEEE Nanotechnology Magazine*, **2011**, 10, 163-169	2.6	19
61	The role of structural defects on the transport properties of a few-walled carbon nanotube networks. *Applied Physics Letters*, **2011**, 98, 192105	3.4	10
60	Resistive switching in copper oxide nanorods: a bottom up approach applicable for enhanced scalability. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8538-42	1.3	1
59	Microwave-assisted synthesis, characterization and ammonia sensing properties of polymer-capped star-shaped zinc oxide nanostructures. *Journal of Nanoparticle Research*, **2011**, 13, 3327-3334	2.3	19
58	Yellow emitting magic-size cadmium selenide nanocrystals via a simplified spray pyrolysis method. *Current Applied Physics*, **2011**, 11, 809-811	2.6	11
57	Fast response and recovery of hydrogen sensing in Pd-Pt nanoparticle-graphene composite layers. *Nanotechnology*, **2011**, 22, 275719	3.4	82
56	Synthesis and characterization of TiO2 doped polyaniline composites for hydrogen gas sensing. *International Journal of Hydrogen Energy*, **2011**, 36, 6343-6355	6.7	90

55	Synthesis and characterization of monodispersed orthorhombic manganese oxide nanoparticles produced by Bacillus sp. cells simultaneous to its bioremediation. *Journal of Hazardous Materials*, **2011**, 192, 620-7	12.8	40
54	Photovoltaic response of a topotaxially formed CdS-Cu(x)S single nanorod heterojunction. *Nanotechnology*, **2011**, 22, 135701	3.4	11
53	Biosynthesis of Silver Nanoparticles from Desmodium triflorum: A Novel Approach Towards Weed Utilization. *Biotechnology Research International*, **2011**, 2011, 454090		148
52	Magnetic field assisted hydrothermal synthesis of CoFe2O4nanowires. *Journal of Physics: Conference Series*, **2010**, 200, 072093	0.3	8
51	Synthesis and characterization of ultra-fine Y2O3:Eu3+ nanophosphors for luminescent security ink applications. *Nanotechnology*, **2010**, 21, 055607	3.4	140
50	Self-catalytic synthesis, structure and properties of ultra-fine luminescent ZnO nanostructures for field emission applications. *Nanotechnology*, **2010**, 21, 225709	3.4	17
49	Resistive switching mechanism in delafossite-transition metal oxide (CuInO2□CuO) bilayer structure. *Journal of Applied Physics*, **2010**, 107, 103703	2.5	20
48	Synthesis, Characterization, and Possible Applications of ZnO Nanocrystals. *Journal of Dispersion Science and Technology*, **2010**, 31, 1202-1207	1.5	2
47	The role of stoichiometry of indium and oxygen on gas sensing properties of indium oxide nanostructures. *Applied Physics Letters*, **2010**, 96, 123114	3.4	12
46	Solvent mediated morphological control of aniline stabilized cobalt oxide nanoparticles. *Journal of Alloys and Compounds*, **2010**, 492, 331-338	5.7	6
45	Retardation of Liquid Indium Flow in Indium Oxide Nanotubes. *Journal of Physical Chemistry C*, **2010** , 114, 2891-2895	3.8	6
44	Effect of induced shape anisotropy on magnetic properties of ferromagnetic cobalt nanocubes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 8088-94	1.3	9
43	Hybrid organic-inorganic (MEH-PPV/P3HT:CdSe) nanocomposites: linking film morphology to photostability. *EPJ Applied Physics*, **2010**, 50, 20602	1.1	4
42	One-pot synthesis of oleic acid-capped cadmium chalcogenides (CdE: E = Se, Te) nano-crystals. *Journal of Nanoparticle Research*, **2010**, 12, 101-109	2.3	15
41	Room temperature growth of wafer-scale silicon nanowire arrays and their Raman characteristics. *Journal of Nanoparticle Research*, **2010**, 12, 2267-2276	2.3	57
40	Quantum confinement in amorphous InSb. *Scripta Materialia*, **2010**, 63, 97-100	5.6	6
39	Influence of Zn substitution on structural, microstructural and dielectric properties of nanocrystalline nickel ferrites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2010**, 167, 187-192	3.1	31
38	Enhanced electron emission from titanium coated multiwalled carbon nanotubes. *Thin Solid Films*, **2010**, 518, 6915-6920	2.2	22

37	Comparison of photostability, optical and structural properties of TiO2/conjugated polymer hybrid composites prepared via different methods. *Thin Solid Films*, **2010**, 519, 1100-1105	2.2	10
36	Surface modification of CdSe quantum dots for biosensing applications: Role of ligands. *Thin Solid Films*, **2010**, 519, 1202-1212	2.2	13
35	Rapid synthesis of silver nanoparticles using dried medicinal plant of basil. *Colloids and Surfaces B: Biointerfaces*, **2010**, 81, 81-6	6	439
34	Tunable synthesis of indium oxide octahedra, nanowires and tubular nanoarrow structures under oxidizing and reducing ambients. *Nanotechnology*, **2009**, 20, 235608	3.4	22
33	Properties of sol-gel derived YAG:Eu3+ hierarchical nanostructures with their time evolution studies. *Journal of Applied Physics*, **2009**, 105, 034309	2.5	9
32	Surfactant Free Large-scale Synthesis of Palladium and Ag/Pd Nanoparticles at Ethanol/Water Refluxing Temperature. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2009**, 39, 367-372		1
31	Synthesis and Magnetic Properties of Nanosized Cobalt Substituted Nickel Ferrites (Ni1-xCoxFe2O4) Using Egg White (Ovalbumin) by Thermal Evaporation. *Journal of Nano Research*, **2009**, 4, 107-116	1	3
30	Effect of Annealing on Dielectric Property in Ni1-xCoxFe2O4 Nanoparticles Synthesized Using Albumen (egg white). *Journal of Nano Research*, **2009**, 6, 205-213	1	4
29	Synthesis and oxidation stability of monosized and monocrystalline Pr nanoparticles. *Journal of Materials Research*, **2009**, 24, 2276-2285	2.5	5
28	Role of Gold Pre-deposition Layer on the Growth of Magnesium Oxide Nanorods. *Japanese Journal of Applied Physics*, **2009**, 48, 065001	1.4	
27	Size- and shape-controlled synthesis and properties of colloidal PbSe nanocrystals. *Materials Chemistry and Physics*, **2009**, 113, 107-114	4.4	20
26	Microwave-assisted synthesis and characterization of flower shaped zinc oxide nanostructures. *Materials Letters*, **2009**, 63, 242-245	3.3	111
25	Microwave-assisted synthesis and investigation of SnO2 nanoparticles. *Materials Letters*, **2009**, 63, 896-898	3.3	85
24	Formation of water-soluble and biocompatible TOPO-capped CdSe quantum dots with efficient photoluminescence. *Journal of Materials Science: Materials in Medicine*, **2009**, 20 Suppl 1, S123-30	4.5	10
23	Large-scale synthesis, characterization and photoluminescence properties of amorphous silica nanowires by thermal evaporation of silicon monoxide. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 1545-1549	3	26
22	Electrical and optical properties of Sn doped CuInO2 thin films: Conducting atomic force microscopy and spectroscopic ellipsometry studies. *Journal of Applied Physics*, **2009**, 106, 053709	2.5	15
21	Conjugated polymer nanocomposites: Synthesis, dielectric, and microwave absorption studies. *Journal of Applied Physics*, **2009**, 106, 044305	2.5	48
20	Synthesis and Characterization of Tin Oxide Nanoparticle for Humidity Sensor Applications. *Journal of Nano Research*, **2009**, 4, 91-101	1	25

19	Ge nanocrystals embedded in a GeOx matrix formed by thermally annealing of Ge oxide films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2009**, 27, 731-733	2.9	12
18	Preparation of CdSe Quantum Dots via Thermolysis of a Novel Single Source Cd/Se Precursor Derived from Cyclohexeno-1,2,3-selenadiazole. *Chemistry Letters*, **2009**, 38, 676-677	1.7	8
17	Synthesis and characterization of ferromagnetic cobalt nanospheres, nanodiscs and nanocubes. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5627-32	1.3	10
16	Improved Thermal Stability and Electrochemical Behavior of CNTs/Polyaniline Nanocomposite. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5382-5388	1.3	4
15	Bioprospecting AgNPs from Wild Desmodium Species. *Journal of Bionanoscience*, **2009**, 3, 97-104		12
14	On the origin of photoluminescence in indium oxide octahedron structures. *Applied Physics Letters*, **2008**, 92, 171907	3.4	85
13	Effect of nanoparticle size on sessile droplet contact angle. *Journal of Applied Physics*, **2008**, 103, 084315	2.5	75
12	Control of Magnetism in Cobalt Nanoparticles by Oxygen Passivation. *Journal of Physical Chemistry C*, **2008**, 112, 13882-13885	3.8	30
11	Synthesis and properties of nanocrystalline copper indium oxide thin films deposited by Rf magnetron sputtering. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3889-94	1.3	14
10	Nanoparticle formation by swift heavy ion irradiation of indium oxide thin film. *Nanotechnology*, **2008**, 19, 175606	3.4	23
9	Growth and field emission characteristics of diamond films on macroporous silicon substrate. *Journal of Applied Physics*, **2008**, 104, 103524	2.5	7
8	Effect of Substrate Morphology on Growth and Field Emission Properties of Carbon Nanotube Films. *Nanoscale Research Letters*, **2008**, 3, 205-212	5	16
7	Multiwalled HgX (X = S, Se, Te) Nanotubes Formed with a Mercury Iodide Catalyst in Nanocrystalline Thin Films Spray-Deposited at Low Temperature. *Advanced Materials*, **2008**, 20, 1945-1951	24	13
6	Enhanced gas sensing properties of In2O3:Ag composite nanoparticle layers; electronic interaction, size and surface induced effects. *Sensors and Actuators B: Chemical*, **2007**, 125, 482-488	8.5	56
5	Effect of Silver Addition on the Ethanol-Sensing Properties of Indium Oxide Nanoparticle Layers: Optical Absorption Study. *Journal of Nanomaterials*, **2007**, 2007, 1-5	3.2	7
4	Size-dependent gas sensing properties of indium oxide nanoparticle layers. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 1930-4	1.3	15
3	Structural, electrical and gas-sensing properties of In2O3 : Ag composite nanoparticle layers **2005**, 65, 949-958		18
2	Nanoparticle size-dependent lowering of temperature for phase transition from In(OH)3 to In2O3. *Journal of Nanoscience and Nanotechnology*, **2005**, 5, 431-5	1.3	18

1 A Two-Step Synthesis Procedure for In2O3Nanoparticle Films Having Well-Defined Particle Size. *Japanese Journal of Applied Physics*, **2003**, 42, 4226-4232 1.4 6