Shashwati Sen

List of Publications by Year
in descending order

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116 papers	3,203 citations	147801 31 h-index	161849 54 g-index
117 all docs	117 docs citations	117 times ranked	3907 citing authors

#	Article	IF	Citations
1	Tunable photoluminescence properties of Dy3+ doped LLZO phosphors for WLED and dosimetry applications. Ceramics International, 2022, 48, 1402-1407.	4.8	17
2	Development and characterization of polycrystalline transparent CsI plate for X-ray radiography applications. Ceramics International, 2021, 47, 2187-2193.	4.8	7
3	Anomalous vibrational behavior of two dimensional tellurium: Layer thickness and temperature dependent Raman spectroscopic study. Applied Surface Science, 2020, 531, 147303.	6.1	10
4	Multi-component garnet scintillator powder: Synthesis and characterization for x ray detection. AIP Conference Proceedings, 2020, , .	0.4	0
5	Effect of OH content in the quartz crucible on the growth and quality of CsI single crystals and remedies. Journal of Crystal Growth, 2020, 544, 125710.	1.5	10
6	Low operating voltage bistable memory characteristics of tellurium thin films. AIP Conference Proceedings, 2019, , .	0.4	0
7	Impurity concentration dependent electrical conduction in germanium crystals at low temperatures. Bulletin of Materials Science, 2019, 42, 1.	1.7	5
8	Growth and characterization of SrI2:Eu2+ single crystal for gamma ray detector applications. AIP Conference Proceedings, 2018, , .	0.4	1
9	Difficulties and improvement in growth of Europium doped Strontium Iodide (SrI2:Eu2+) scintillator single crystal for radiation detection applications. Journal of Alloys and Compounds, 2018, 747, 989-993.	5.5	9
10	Tunable blue-green emission from ZnS(Ag) nanostructures grown by hydrothermal synthesis. Journal of Materials Research, 2018, 33, 3963-3970.	2.6	23
11	Crystals for Thermal Neutron Detection. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800224.	1.8	5
12	Bridgman-Stockbarger growth of SrI2:Eu2+ single crystal. , 2018, , .		0
13	Structural and magnetic properties of Cr doped BiFeO3 multiferroic nanoparticles. AIP Conference Proceedings, 2017, , .	0.4	1
14	Organicâ€“Inorganic Composite Films Based on Gd₃Ga₃Al₂O₁₂:Ce Scintillator Nanoparticles for X-ray Imaging Applications. ACS Applied Materials & Interfaces, 2017, 9, 37310-37320.	8.0	33
15	Investigations on Substrate Temperature-Induced Growth Modes of Organic Semiconductors at Dielectric/semiconductor Interface and Their Correlation with Threshold Voltage Stability in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2016, 8, 3376-3385.	8.0	16
16	Effects of film thickness on scintillation characteristics of columnar CsI:Tl films exposed to high gamma radiation doses. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 14-18.	1.6	3
17	Optically stimulated luminescence in Ag doped Li2B4O7 single crystal and its sensitivity to neutron detection and dosimetry in OSL mode. Radiation Measurements, 2016, 88, 14-19.	1.4	15
18	Timing characteristics of Ce doped Gd₃Ga₃Al₂O₁₂ single crystals in comparison with CsI(Tl) scintillators. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2213-2218.	1.8	10

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19	Improvement of the scintillation properties of Gd₃ Ga₃ Al₂ O₁₂ :Ce,B single crystals having tailored defect structure. Physica Status Solidi - Rapid Research Letters, 2015, 9, 530-534.	2.4	9
20	Luminescence properties of CaF2:Mn optically transparent ceramic. Journal of Luminescence, 2015, 166, 222-226.	3.1	22
21	Structural and luminescence properties of Gd2Si2O7:Ce prepared by solution combustion followed by heat treatment. Journal of Alloys and Compounds, 2015, 630, 68-73.	5.5	16
22	Influence of active layer thickness on contribution of hole and electron trapping to threshold voltage instability in organic field effect transistors. Superlattices and Microstructures, 2015, 86, 536-545.	3.1	3
23	Probing Molecular Packing at Engineered Interfaces in Organic Field Effect Transistor and Its Correlation with Charge Carrier Mobility. ACS Applied Materials & Interfaces, 2015, 7, 10169-10177.	8.0	16
24	Performance characteristics of thermal neutron detectors based on Li6Y(BO3)3:Ce single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 804, 189-193.	1.6	14
25	Deposition and in-situ characterization of Tiâ€“Zrâ€“V alloy thin films annealed at different temperatures under ultra-high vacuum conditions. Journal of Alloys and Compounds, 2015, 651, 375-381.	5.5	11
26	Nitrogen dioxide (NO2) sensing performance of p-polypyrrole/n-tungsten oxide hybrid nanocomposites at room temperature. Organic Electronics, 2015, 16, 195-204.	2.6	124
27	Study on post-deposition annealing influenced contribution of hole and electron trapping to threshold voltage stability in organic field effect transistors. Materials Science in Semiconductor Processing, 2015, 30, 18-24.	4.0	12
28	Silver doped lithium tetraborate (Li2B4O7) single crystals as efficient dosimeter material with sub-micro-Gy sensitivity. Journal of Luminescence, 2015, 157, 333-337.	3.1	14
29	Growth and optical properties of partially transparent Eu doped CaF2 ceramic. AIP Conference Proceedings, 2014, , .	0.4	3
30	Growth and characterization of lithium yttrium borate single crystals. AIP Conference Proceedings, 2014, , .	0.4	5
31	NH3 sensor based on CSA doped PANi-SnO2 nanohybrid. , 2014, , .		1
32	Preparation and characterization of CsI:Tl thick films on silica glass substrate. , 2014, , .		2
33	Temperature dependent photoluminescence studies in CsI:Tl films with varying thicknesses. Physica Status Solidi (B): Basic Research, 2014, 251, 748-754.	1.5	7
34	Development of nanostructured ZnO thin film sensor for NO₂detection. Journal of Experimental Nanoscience, 2014, 9, 482-490.	2.4	16
35	PERFORMANCE COMPARISON OF pâ€“n JUNCTION DIODES USING ZINC OXIDE AND COPPER PHTHALOCYANINE HYBRID NANOCOMPOSITES AND BILAYER HETEROSTRUCTURES. Nano, 2014, 09, 1450062.	1.0	3
36	Structural and optical properties of Gd2SiO5 prepared from hydrothermally synthesized powder. Journal of Alloys and Compounds, 2014, 592, 12-18.	5.5	10

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37	Polypyrroleâ€“ZnO nanohybrids: effect of CSA doping on structure, morphology and optoelectronic properties. Applied Nanoscience (Switzerland), 2013, 3, 423-429.	3.1	27
38	Facile method of synthesis of polyaniline-SnO2 hybrid nanocomposites: Microstructural, optical and electrical transport properties. Synthetic Metals, 2013, 178, 1-9.	3.9	42
39	Effect of annealing on microstructural and optoelectronic properties of nanocrystalline TiO2 thin films. Journal of Experimental Nanoscience, 2013, 8, 500-508.	2.4	5
40	Thermally stimulated luminescence process in copper and silver co-doped lithium tetraborate single crystals and its implication to dosimetry. Journal of Luminescence, 2013, 137, 28-31.	3.1	29
41	Synthesis of Fe 2 O 3 nanoparticles for nitrogen dioxide gas sensing applications. Ceramics International, 2013, 39, 6453-6460.	4.8	140
42	New process for fabrication of polyanilineâ€“CdS nanocomposites: Structural, morphological and optoelectronic investigations. Journal of Physics and Chemistry of Solids, 2013, 74, 236-244.	4.0	28
43	Novel method for fabrication of NiO sensor for NO2 monitoring. Journal of Materials Science: Materials in Electronics, 2013, 24, 368-375.	2.2	44
44	Understanding energy transfer in Ce doped Li6Gd(BO3)3: A study of millisecond decay kinetics in 77â€“300K range. Journal of Luminescence, 2013, 137, 208-213.	3.1	12
45	Effect of porosity on impedance of CaF[sub 2] ceramic. , 2013, , .		1
46	Nanocrystalline SnO2 thin films: Structural, morphological, electrical transport and optical studies. Journal of Alloys and Compounds, 2013, 563, 300-306.	5.5	36
47	CSA doped polypyrrole-zinc oxide thin film sensor. , 2013, , .		0
48	Synthesis of gadolinium silicate by hydrothermal method. AIP Conference Proceedings, 2013, , .	0.4	5
49	Scintillation yield uniformity studies on single crystals of Tl doped CsI. , 2013, , .		1
50	Development of Fe[sub 2]O[sub 3] sensor for NO[sub 2] detection. , 2013, , .		1
51	Effect of Ce concentration on optical properties of Li[sub 6]Gd(BO[sub 3])[sub 3] single crystals. , 2013, , .		0
52	Growth of silver doped Li[sub 2]B[sub 4]O[sub 7] single crystals for dosimetric application. , 2013, , .		1
53	Synthesis of optically transparent ceramic of CaF2 doped with Mn and Ce for thermoluminescent dosimetry. , 2012, , .		1
54	Growth of germanium single crystals by Czochralski technique. AIP Conference Proceedings, 2012, , .	0.4	2

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55	Comparison of optical properties of pure and doped lithium tetraborate single crystals and glasses. , 2012, , .		0
56	Structural, Morphological, Optical, and Electrical Properties of PANi-ZnO Nanocomposites. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 809-820.	3.4	67
57	Thermoelectric properties of transition metal intercalated layered TiSe2. , 2012, , .		1
58	Fussy nanofibrous network of polyaniline (PANi) for NH3 detection. Synthetic Metals, 2012, 162, 1822-1827.	3.9	72
59	Growth of CsI:Tl crystals in carbon coated silica crucibles by the gradient freeze technique. Journal of Crystal Growth, 2012, 351, 88-92.	1.5	16
60	Growth and luminescence properties of Ce doped Li6Gd(BO3)3 single crystals. , 2012, , .		3
61	Polypyrroleâ€“ZnO hybrid sensor: Effect of camphor sulfonic acid doping on physical and gas sensing properties. Synthetic Metals, 2012, 162, 1598-1603.	3.9	55
62	Fabrication, properties and thermo-luminescent dosimetric application of CaF2:Mn transparent ceramic. Nuclear Instruments & Methods in Physics Research B, 2012, 287, 51-55.	1.4	21
63	Novel method for fabrication of room temperature polypyrroleâ€“ZnO nanocomposite NO2 sensor. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1989-1996.	5.0	103
64	Thermoelectric properties of AgCrSe2. AIP Conference Proceedings, 2012, , .	0.4	5
65	Development of nanostructured polyanilineâ€“titanium dioxide gas sensors for ammonia recognition. Journal of Applied Polymer Science, 2012, 125, 1418-1424.	2.6	54
66	Facile and efficient route for preparation of polypyrroleâ€ZnO nanocomposites: Microstructural, optical, and charge transport properties. Journal of Applied Polymer Science, 2012, 125, E541.	2.6	67
67	Nanocrystalline CuO thin films: synthesis, microstructural and optoelectronic properties. Journal of Materials Science: Materials in Electronics, 2012, 23, 1492-1499.	2.2	64
68	Fabrication of nanostructured ZnO thin film sensor for NO2 monitoring. Ceramics International, 2012, 38, 2685-2692.	4.8	118
69	Novel method of fabrication of polyanilineâ€“CdS nanocomposites: Structural, morphological and optoelectronic properties. Ceramics International, 2012, 38, 3999-4007.	4.8	36
70	Measurements on room temperature gas sensing properties of CSA doped polyanilineâ€“ZnO nanocomposites. Measurement: Journal of the International Measurement Confederation, 2012, 45, 243-249.	5.0	65
71	Solâ€“gel synthesis of nickel oxide thin films and their characterization. Thin Solid Films, 2012, 520, 4835-4840.	1.8	98
72	Photoluminescence and photoconductivity studies on NaBi(WO4)2 single crystals: A promising Cherenkov radiator. Journal of Luminescence, 2012, 132, 41-45.	3.1	11

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73	Photo-luminescence properties of Cu and Ag doped Li2B4O7 single crystals at low temperatures. Journal of Luminescence, 2012, 132, 1101-1105.	3.1	28
74	New Method for Fabrication of CSA Doped PANi- ${m TiO}_{2}$ Thin-Film Ammonia Sensor. IEEE Sensors Journal, 2011, 11, 2980-2985.	4.7	46
75	Room Temperature Ammonia Gas Sensor Based on Polyaniline-TiO$_{2}$ Nanocomposite. IEEE Sensors Journal, 2011, 11, 3417-3423.	4.7	90
76	Enhanced Field-Emission from SnO₂:WO_{2.72} Nanowire Heterostructures. ACS Applied Materials & Interfaces, 2011, 3, 4730-4735.	8.0	33
77	Polypyrrole Thin Film: Room Temperature Ammonia Gas Sensor. IEEE Sensors Journal, 2011, 11, 2137-2141.	4.7	63
78	New process for synthesis of nickel oxide thin films and their characterization. Journal of Alloys and Compounds, 2011, 509, 9065-9070.	5.5	37
79	New process for synthesis of ZnO thin films: Microstructural, optical and electrical characterization. Journal of Alloys and Compounds, 2011, 509, 10055-10061.	5.5	44
80	Synthesis and Characterization of Polypyrrole (PPy) Thin Films. Soft Nanoscience Letters, 2011, 01, 6-10.	0.8	363
81	STRUCTURE AND MAGNETIC PROPERTIES OF Co-DOPED SnO₂ NANOWIRES. International Journal of Nanoscience, 2011, 10, 967-971.	0.7	1
82	Camphor Sulfonic Acid Doped Polyaniline-Titanium Dioxide Nanocomposite: Synthesis, Structural, Morphological, and Electrical Properties. International Journal of Polymeric Materials and Polymeric Biomaterials, 2011, 60, 979-987.	3.4	29
83	Fabrication of Nanocrystalline TiO₂ Thin Film Ammonia Vapor Sensor. Journal of Sensor Technology, 2011, 01, 9-16.	1.0	31
84	Growth of SnO2/W18O49 nanowire hierarchical heterostructure and their application as chemical sensor. Sensors and Actuators B: Chemical, 2010, 147, 453-460.	7.8	78
85	Synthesis And Luminescence Studies Of Mn doped CaF [sub 2]. , 2010, , .		1
86	Growth and gas-sensing studies of metal oxide semiconductor nanostructures. International Journal of Nanotechnology, 2010, 7, 883.	0.2	11
87	Hierarchical Nano Heterostructures of SnO2-WOX: Growth and Sensing Studies. Integrated Ferroelectrics, 2010, 120, 56-63.	0.7	0
88	Tellurium Nano-Structure Based NO Gas Sensor. Journal of Nanoscience and Nanotechnology, 2009, 9, 5278-5282.	0.9	9
89	Comment On â€œ1D Tellurium Nanostructures: Photothermally Assisted Morphologyâ€Controlled Synthesis and Applications in Preparing Functional Nanoscale Materialsâ€• Advanced Functional Materials, 2009, 19, 3191-3192.	14.9	2
90	Poly(3-hexylthiophene) based field-effect transistors with gate SiO2 dielectric modified by multi-layers of 3-aminopropyltrimethoxysilane. Thin Solid Films, 2009, 517, 6124-6128.	1.8	7

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91	Copper doped SnO2 nanowires as highly sensitive H2S gas sensor. Sensors and Actuators B: Chemical, 2009, 138, 587-590.	7.8	155
92	Field emission studies of Te nanorods grown on Si (111) substrate. Vacuum, 2009, 83, 1307-1310.	3.5	8
93	Chlorine gas sensors using one-dimensional tellurium nanostructures. Talanta, 2009, 77, 1567-1572.	5.5	28
94	Study of H[sub 2]S Sensitivity of Pure and Cu Doped SnO[sub 2] Single Nanowire Sensors. , 2009, , .		0
95	Synthesis of Tellurium Nanostructures by Physical Vapor Deposition and Their Growth Mechanism. Crystal Growth and Design, 2008, 8, 238-242.	3.0	54
96	Synthesis and characterization of copper nanostructures on silicon substrates. Journal of Physics: Conference Series, 2008, 114, 012043.	0.4	0
97	Comment on High-Quality Luminescent Tellurium Nanowires of Several Nanometers in Diameter and High Aspect Ratio Synthesized by a Poly (Vinyl Pyrrolidone)-Assisted Hydrothermal Process. Langmuir, 2007, 23, 10873-10873.	3.5	8
98	Effect of deposition conditions on the microstructure and gas-sensing characteristics of Te thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 131, 156-161.	3.5	18
99	Highly sensitive hydrogen sulphide sensors operable at room temperature. Sensors and Actuators B: Chemical, 2006, 115, 270-275.	7.8	63
100	Critical current density of MgB2thin films and the effect of interface pinning. Superconductor Science and Technology, 2004, 17, S524-S527.	3.5	4
101	Room temperature operating ammonia sensor based on tellurium thin films. Sensors and Actuators B: Chemical, 2004, 98, 154-159.	7.8	81
102	Effect of interface pinning on dissipation, volume pinning force and measurement of upper critical magnetic field in MgB2 thin films. Physica C: Superconductivity and Its Applications, 2003, 385, 313-321.	1.2	9
103	Positron annihilation studies in theMgB2superconductor. Physical Review B, 2002, 66, .	3.2	10
104	Andreev reflections on aMgB2superconductor. Physical Review B, 2002, 66, .	3.2	5
105	Iâ^'Vcharacteristic measurements to study the nature of the vortex state and dissipation inMgB2thin films. Physical Review B, 2002, 66, .	3.2	13
106	Anisotropy of critical current density inc-axis-orientedMgB2thin films. Physical Review B, 2002, 65, .	3.2	14
107	Microwave absorption studies of MgB2 superconductor. Pramana - Journal of Physics, 2002, 58, 799-802.	1.8	0
108	Preparation and characterization of MgB2 superconductor. Pramana - Journal of Physics, 2002, 58, 867-870.	1.8	1

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109	Effect of substrate temperature on electrical and magnetic properties of epitaxial La1âˆ'x Pb x MnO3 films. Pramana - Journal of Physics, 2002, 58, 1065-1067.	1.8	1
110	Effect of grain boundaries on paraconductivity of YBa 2 Cu 3 O x. Journal of Physics and Chemistry of Solids, 2002, 63, 1797-1803.	4.0	32
111	Growth of epitaxial multilayers consisting of alternately stacked superconducting YBa2Cu3O7âˆ'Î´ and colossal magnetoresistive La1âˆ'xPbxMnO3 layers. Journal of Crystal Growth, 2002, 243, 134-142.	1.5	9
112	A study of vortex motion in YBa2Cu3Ox thin films as revealed by the simultaneous appearance of longitudinal and transverse voltages. Physica C: Superconductivity and Its Applications, 2001, 363, 140-148.	1.2	4
113	Synthesis and characterization of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2001, 363, 149-154.	1.2	23
114	Degradation behavior of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2001, 363, 208-214.	1.2	53
115	Magnetic field dependent microwave absorption studies on a MgB2superconductor. Superconductor Science and Technology, 2001, 14, 572-575.	3.5	18
116	Angular dependence of vortex glass transition in YBa2Cu3Ox thin films. Physica C: Superconductivity and Its Applications, 1999, 324, 137-142.	1.2	8