Sanjay R Dhage

List of Publications by Year in Descending Order

63 papers	1,625 citations	20 h-index	38 g-index
66 ext. papers	1,747 ext. citations	3.5 avg, IF	4.74 L-index

#	Paper	IF	Citations
63	Room Temperature Sputtered Aluminum-Doped ZnO Thin Film Transparent Electrode for Application in Solar Cells and for Low-Band-Gap Optoelectronic Devices.. *ACS Omega*, **2022**, 7, 14203-14210	3.9	4
62	12.95% Efficient Cu(In,Ga)Se2 Solar Cells by Single-Step Atmospheric Selenization, Scaled to Monolithically Integrated Modules. *ACS Applied Energy Materials*, **2021**, 4, 286-294	6.1	5
61	Investigation on effects of precursor pre-heat treatments on CIGS formation using spin-coated CIG precursor. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 1521-1527	2.1	0
60	Inkjet printed CuIn(1-X)GaXSe2 thin film by controlled selenium distribution for improved power conversion efficiency in chalcopyrite solar cells. *Applied Surface Science Advances*, **2021**, 6, 100144	2.6	2
59	Microstructural investigation of inkjet printed Cu(In,Ga)Se2 thin film solar cell with improved efficiency. *Journal of Alloys and Compounds*, **2020**, 827, 154295	5.7	12
58	Pulsed laser annealing of spray casted Cu(In,Ga)Se2 nanocrystal thin films for solar cell application. *Solar Energy*, **2020**, 199, 47-54	6.8	10
57	Effect of Annealing Time and Heat Flux on Solvothermal Synthesis of CIGS Nanoparticles. *Materials Today: Proceedings*, **2020**, 21, 1882-1887	1.4	3
56	Sustainable Photovoltaics. *Lecture Notes in Energy*, **2020**, 25-85	0.4	
55	Cu(In,Ga)Se2 thin film solar cells produced by atmospheric selenization of spray casted nanocrystalline layers. *Solar Energy*, **2020**, 209, 1-10	6.8	7
54	Effective ink-jet printing of aqueous ink for Cu (In, Ga) Se2 thin film absorber for solar cell application. *Solar Energy*, **2019**, 179, 363-370	6.8	20
53	Role of selenium content in selenization of inkjet printed CIGSe2 thin film solar cell **2019**,		1
52	Sonochemical synthesis of CuIn0.7Ga0.3Se2 nanoparticles for thin film photo absorber application. *Materials Science in Semiconductor Processing*, **2018**, 81, 17-21	4.3	9
51	Cu(In,Ga)Se2 thin film absorber layer by flash light post-treatment. *Vacuum*, **2018**, 153, 191-194	3.7	9
50	Process Parameter Impact on Selective Laser Ablation of Bilayer Molybdenum Thin Films for CIGS Solar Cell Applications. *Materials Focus*, **2018**, 7, 556-562		3
49	Transparent conducting Al:ZnO thin films on large area by efficient cylindrical rotating DC magnetron sputtering. *Journal of Alloys and Compounds*, **2018**, 763, 504-511	5.7	19
48	Effect of various surface treatments on adhesion strength of magnetron sputtered bi-layer Molybdenum thin films on soda lime glass substrate. *Solar Energy*, **2017**, 157, 507-513	6.8	20
47	Chalcopyrite CIGS absorber layer by inkjet printing for photovoltaic application. *Materials Today: Proceedings*, **2017**, 4, 12480-12483	1.4	7

46	CdSBuffer Layer by CBD on 300 mm X 300 mm Glass for CIGS Solar Cell Application. *Materials Today: Proceedings*, **2017**, 4, 12525-12528	1.4	6
45	Process parameter impact on properties of sputtered large-area Mo bilayers for CIGS thin film solar cell applications. *Thin Solid Films*, **2015**, 589, 79-84	2.2	27
44	Non-vacuum route for CIGS thin film absorber on flexible glass substrates **2015**,		3
43	CIGS absorber layer by single-step non-vacuum intense pulsed light treatment of inkjet-printed film **2014**,		1
42	Fabrication of CIGS thin film absorber by laser treatment of pre-deposited nano-ink precursor layer. *Materials Letters*, **2014**, 134, 302-305	3.3	18
41	Photoluminescence properties of thermally stable highly crystalline CdS nanoparticles. *Materials Research*, **2013**, 16, 504-507	1.5	18
40	Intense Pulsed Light Sintering Technique for Nanomaterials **2012**, 577-584		1
39	Thermo chemical stability of cadmium sulfide nanoparticles under intense pulsed light irradiation and high temperatures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1161-1168	3.1	14
38	Morphological variations in cadmium sulfide nanocrystals without phase transformation. *Nanoscale Research Letters*, **2011**, 6, 420	5	19
37	Cu(In,Ga)Se2 Thin Film Preparation from a Cu(In,Ga) Metallic Alloy and Se Nanoparticles by an Intense Pulsed Light Technique. *Journal of Electronic Materials*, **2011**, 40, 122-126	1.9	30
36	Polypyrrole/Silicon Carbide Nanocomposites with Tunable Electrical Conductivity. *Journal of Physical Chemistry C*, **2010**, 114, 3874-3882	3.8	169
35	Rapid treatment of CIGS particles by intense pulsed light. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 1480-1483	3.9	24
34	A simulation study on the direct carbothermal reduction of SiO2 for Si metal. *Current Applied Physics*, **2010**, 10, S218-S221	2.6	14
33	Low temperature fabrication of hexagon shaped h-MoO3 nanorods and its phase transformation. *Materials Chemistry and Physics*, **2009**, 114, 511-514	4.4	56
32	Formation of SiC nanowhiskers by carbothermic reduction of silica with activated carbon. *Materials Letters*, **2009**, 63, 174-176	3.3	48
31	Intense pulsed light sintering of copper nanoink for printed electronics. *Applied Physics A: Materials Science and Processing*, **2009**, 97, 791-798	2.6	320
30	Varistor property of SnO2□CoO□Ta2O5 ceramic modified by barium and strontium. *Journal of Alloys and Compounds*, **2008**, 466, 483-487	5.7	13
29	The influence of surfactant on ZnO varistors. *Ceramics International*, **2007**, 33, 289-291	5.1	6

28	Low voltage varistor ceramics based on SnO2. *Bulletin of Materials Science*, **2007**, 30, 583-586	1.7	10
27	A co-precipitation technique for the preparation of ferroelectric BaBi2Ta2O9. *Materials Chemistry and Physics*, **2006**, 98, 344-346	4.4	14
26	Studies on SnO2ZrO2 solid solution. *Ceramics International*, **2006**, 32, 939-941	5.1	9
25	Synthesis of Ce0.75Zr0.25O2 at 100C. *Ceramics International*, **2005**, 31, 211-213	5.1	13
24	Synthesis of bismuth titanate by the urea method. *Materials Letters*, **2005**, 59, 514-516	3.3	17
23	Synthesis of fine particles of ZnO at 100 C. *Materials Letters*, **2005**, 59, 779-781	3.3	31
22	Synthesis of Sr0.5Ba0.5Nb2O6 by urea method. *Materials Letters*, **2005**, 59, 1053-1055	3.3	5
21	Preparation of ferroelectric BaNb2O6 by the urea method. *Materials Letters*, **2005**, 59, 1929-1931	3.3	4
20	Synthesis of bismuth oxide nanoparticles at 100 C. *Materials Letters*, **2005**, 59, 2523-2525	3.3	48
19	Co-Precipitation Method for the Preparation of Nanocrystalline Ferroelectric SrBi2Nb2O9 Ceramics. *Journal of Electroceramics*, **2005**, 14, 83-87	1.5	17
18	Co-precipitation method for the preparation of ferroelectric CaBi4Ti4O15. *Journal of Materials Science: Materials in Electronics*, **2005**, 16, 229-231	2.1	6
17	Synthesis of bismuth titanate by citrate method. *Materials Research Bulletin*, **2004**, 39, 1993-1998	5.1	28
16	NonlinearI-V characteristics study of doped SnO2. *Bulletin of Materials Science*, **2004**, 27, 43-45	1.7	11
15	Synthesis of nanocrystalline TiO2 by tartarate gel method. *Bulletin of Materials Science*, **2004**, 27, 487-489	1.7	19
14	Synthesis of nanocrystalline SnO2 powder at 100C. *Bulletin of Materials Science*, **2004**, 27, 221-222	1.7	18
13	Nonlinear IV characteristics of doped SnO2. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 110, 168-171	3.1	15
12	Synthesis of nanocrystalline TiO2 at 100 $deg;C. *Materials Letters*, **2004**, 58, 2310-2313	3.3	37
11	Synthesis of mesoporous rutile TiO2. *Materials Letters*, **2004**, 58, 2514-2516	3.3	12

10	Synthesis of Ce0.75Zr0.25O2 by citrate gel method. *Materials Letters*, **2004**, 58, 2704-2706	3.3	29
9	Varistors Based on Doped SnO2 **2003**, 11, 81-87		7
8	Preparation of microwave dielectric, Sn0.2Zr0.8TiO4. *Bulletin of Materials Science*, **2003**, 26, 215-216	1.7	25
7	Synthesis of ultrafine TiO2 by citrate gel method. *Materials Research Bulletin*, **2003**, 38, 1623-1628	5.1	51
6	Co-precipitation technique for the preparation of nanocrystalline ferroelectric SrBi2Ta2O9. *Materials Research Bulletin*, **2003**, 38, 1601-1605	5.1	21
5	Influence of various donors on nonlinear IV characteristics of tin dioxide ceramics. *Applied Physics Letters*, **2003**, 83, 4539-4541	3.4	52
4	Chemical co-precipitation of mixed (Pb+Ti) oxalates precursor for the synthesis of PbTiO3 powders. *Materials Letters*, **2002**, 56, 564-570	3.3	15
3	Microwave hydrothermal preparation of submicron-sized spherical magnetite (Fe3O4) powders. *Materials Letters*, **2002**, 56, 571-577	3.3	141
2	Effect of variation of molar ratio (pH) on the crystallization of iron oxide phases in microwave hydrothermal synthesis. *Materials Letters*, **2002**, 57, 457-462	3.3	30
1	Influence of lanthanum on the nonlinear IV characteristics of SnO2: Co, Nb. *Materials Letters*, **2002**, 57, 727-729	3.3	19