

# Sanjay R Dhage

## List of Publications by Citations

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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.

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	Intense pulsed light sintering of copper nanoink for printed electronics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 97, 791-798	2.6	320
62	Polypyrrole/Silicon Carbide Nanocomposites with Tunable Electrical Conductivity. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3874-3882	3.8	169
61	Microwave hydrothermal preparation of submicron-sized spherical magnetite (Fe <sub>3</sub> O <sub>4</sub> ) powders. <i>Materials Letters</i> , <b>2002</b> , 56, 571-577	3.3	141
60	Low temperature fabrication of hexagon shaped h-MoO <sub>3</sub> nanorods and its phase transformation. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 114, 511-514	4.4	56
59	Influence of various donors on nonlinear I-V characteristics of tin dioxide ceramics. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4539-4541	3.4	52
58	Synthesis of ultrafine TiO <sub>2</sub> by citrate gel method. <i>Materials Research Bulletin</i> , <b>2003</b> , 38, 1623-1628	5.1	51
57	Formation of SiC nanowhiskers by carbothermic reduction of silica with activated carbon. <i>Materials Letters</i> , <b>2009</b> , 63, 174-176	3.3	48
56	Synthesis of bismuth oxide nanoparticles at 100 °C. <i>Materials Letters</i> , <b>2005</b> , 59, 2523-2525	3.3	48
55	Synthesis of nanocrystalline TiO <sub>2</sub> at 100 °C. <i>Materials Letters</i> , <b>2004</b> , 58, 2310-2313	3.3	37
54	Synthesis of fine particles of ZnO at 100 °C. <i>Materials Letters</i> , <b>2005</b> , 59, 779-781	3.3	31
53	Cu(In,Ga)Se <sub>2</sub> Thin Film Preparation from a Cu(In,Ga) Metallic Alloy and Se Nanoparticles by an Intense Pulsed Light Technique. <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 122-126	1.9	30
52	Effect of variation of molar ratio (pH) on the crystallization of iron oxide phases in microwave hydrothermal synthesis. <i>Materials Letters</i> , <b>2002</b> , 57, 457-462	3.3	30
51	Synthesis of Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> by citrate gel method. <i>Materials Letters</i> , <b>2004</b> , 58, 2704-2706	3.3	29
50	Synthesis of bismuth titanate by citrate method. <i>Materials Research Bulletin</i> , <b>2004</b> , 39, 1993-1998	5.1	28
49	Process parameter impact on properties of sputtered large-area Mo bilayers for CIGS thin film solar cell applications. <i>Thin Solid Films</i> , <b>2015</b> , 589, 79-84	2.2	27
48	Preparation of microwave dielectric, Sn <sub>0.2</sub> Zr <sub>0.8</sub> TiO <sub>4</sub> . <i>Bulletin of Materials Science</i> , <b>2003</b> , 26, 215-216	1.7	25
47	Rapid treatment of CIGS particles by intense pulsed light. <i>Journal of Physics and Chemistry of Solids</i> , <b>2010</b> , 71, 1480-1483	3.9	24

46	Co-precipitation technique for the preparation of nanocrystalline ferroelectric SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> . <i>Materials Research Bulletin</i> , <b>2003</b> , 38, 1601-1605	5.1	21
45	Effective ink-jet printing of aqueous ink for Cu (In, Ga) Se <sub>2</sub> thin film absorber for solar cell application. <i>Solar Energy</i> , <b>2019</b> , 179, 363-370	6.8	20
44	Effect of various surface treatments on adhesion strength of magnetron sputtered bi-layer Molybdenum thin films on soda lime glass substrate. <i>Solar Energy</i> , <b>2017</b> , 157, 507-513	6.8	20
43	Morphological variations in cadmium sulfide nanocrystals without phase transformation. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 420	5	19
42	Synthesis of nanocrystalline TiO <sub>2</sub> by tartarate gel method. <i>Bulletin of Materials Science</i> , <b>2004</b> , 27, 487-489	7	19
41	Influence of lanthanum on the nonlinear I-V characteristics of SnO <sub>2</sub> : Co, Nb. <i>Materials Letters</i> , <b>2002</b> , 57, 727-729	3.3	19
40	Transparent conducting Al:ZnO thin films on large area by efficient cylindrical rotating DC magnetron sputtering. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 763, 504-511	5.7	19
39	Fabrication of CIGS thin film absorber by laser treatment of pre-deposited nano-ink precursor layer. <i>Materials Letters</i> , <b>2014</b> , 134, 302-305	3.3	18
38	Photoluminescence properties of thermally stable highly crystalline CdS nanoparticles. <i>Materials Research</i> , <b>2013</b> , 16, 504-507	1.5	18
37	Synthesis of nanocrystalline SnO <sub>2</sub> powder at 100°C. <i>Bulletin of Materials Science</i> , <b>2004</b> , 27, 221-222	1.7	18
36	Synthesis of bismuth titanate by the urea method. <i>Materials Letters</i> , <b>2005</b> , 59, 514-516	3.3	17
35	Co-Precipitation Method for the Preparation of Nanocrystalline Ferroelectric SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> Ceramics. <i>Journal of Electroceramics</i> , <b>2005</b> , 14, 83-87	1.5	17
34	Nonlinear I-V characteristics of doped SnO <sub>2</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 110, 168-171	3.1	15
33	Chemical co-precipitation of mixed (Pb+Ti) oxalates precursor for the synthesis of PbTiO <sub>3</sub> powders. <i>Materials Letters</i> , <b>2002</b> , 56, 564-570	3.3	15
32	Thermo chemical stability of cadmium sulfide nanoparticles under intense pulsed light irradiation and high temperatures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1161-1168	3.1	14
31	A simulation study on the direct carbothermal reduction of SiO <sub>2</sub> for Si metal. <i>Current Applied Physics</i> , <b>2010</b> , 10, S218-S221	2.6	14
30	A co-precipitation technique for the preparation of ferroelectric BaBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> . <i>Materials Chemistry and Physics</i> , <b>2006</b> , 98, 344-346	4.4	14
29	Varistor property of SnO <sub>2</sub> [CoO] <sub>x</sub> Ta <sub>2</sub> O <sub>5</sub> ceramic modified by barium and strontium. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 466, 483-487	5.7	13

28	Synthesis of Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> at 100°C. <i>Ceramics International</i> , <b>2005</b> , 31, 211-213	5.1	13
27	Microstructural investigation of inkjet printed Cu(In,Ga)Se <sub>2</sub> thin film solar cell with improved efficiency. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 154295	5.7	12
26	Synthesis of mesoporous rutile TiO <sub>2</sub> . <i>Materials Letters</i> , <b>2004</b> , 58, 2514-2516	3.3	12
25	Nonlinear I-V characteristics study of doped SnO <sub>2</sub> . <i>Bulletin of Materials Science</i> , <b>2004</b> , 27, 43-45	1.7	11
24	Pulsed laser annealing of spray casted Cu(In,Ga)Se <sub>2</sub> nanocrystal thin films for solar cell application. <i>Solar Energy</i> , <b>2020</b> , 199, 47-54	6.8	10
23	Low voltage varistor ceramics based on SnO <sub>2</sub> . <i>Bulletin of Materials Science</i> , <b>2007</b> , 30, 583-586	1.7	10
22	Sonochemical synthesis of CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> nanoparticles for thin film photo absorber application. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 81, 17-21	4.3	9
21	Cu(In,Ga)Se <sub>2</sub> thin film absorber layer by flash light post-treatment. <i>Vacuum</i> , <b>2018</b> , 153, 191-194	3.7	9
20	Studies on SnO <sub>2</sub> /ZrO <sub>2</sub> solid solution. <i>Ceramics International</i> , <b>2006</b> , 32, 939-941	5.1	9
19	Chalcopyrite CIGS absorber layer by inkjet printing for photovoltaic application. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 12480-12483	1.4	7
18	Varistors Based on Doped SnO <sub>2</sub> <b>2003</b> , 11, 81-87		7
17	Cu(In,Ga)Se <sub>2</sub> thin film solar cells produced by atmospheric selenization of spray casted nanocrystalline layers. <i>Solar Energy</i> , <b>2020</b> , 209, 1-10	6.8	7
16	CdS Buffer Layer by CBD on 300 mm X 300 mm Glass for CIGS Solar Cell Application. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 12525-12528	1.4	6
15	The influence of surfactant on ZnO varistors. <i>Ceramics International</i> , <b>2007</b> , 33, 289-291	5.1	6
14	Co-precipitation method for the preparation of ferroelectric CaBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2005</b> , 16, 229-231	2.1	6
13	Synthesis of Sr <sub>0.5</sub> Ba <sub>0.5</sub> Nb <sub>2</sub> O <sub>6</sub> by urea method. <i>Materials Letters</i> , <b>2005</b> , 59, 1053-1055	3.3	5
12	12.95% Efficient Cu(In,Ga)Se <sub>2</sub> Solar Cells by Single-Step Atmospheric Selenization, Scaled to Monolithically Integrated Modules. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 286-294	6.1	5
11	Preparation of ferroelectric BaNb <sub>2</sub> O <sub>6</sub> by the urea method. <i>Materials Letters</i> , <b>2005</b> , 59, 1929-1931	3.3	4

10	Room Temperature Sputtered Aluminum-Doped ZnO Thin Film Transparent Electrode for Application in Solar Cells and for Low-Band-Gap Optoelectronic Devices.. <i>ACS Omega</i> , <b>2022</b> , 7, 14203-14210	3.9	4
9	Effect of Annealing Time and Heat Flux on Solvothermal Synthesis of CIGS Nanoparticles. <i>Materials Today: Proceedings</i> , <b>2020</b> , 21, 1882-1887	1.4	3
8	Non-vacuum route for CIGS thin film absorber on flexible glass substrates <b>2015</b> ,		3
7	Process Parameter Impact on Selective Laser Ablation of Bilayer Molybdenum Thin Films for CIGS Solar Cell Applications. <i>Materials Focus</i> , <b>2018</b> , 7, 556-562		3
6	Inkjet printed CuIn(1-X)GaXSe <sub>2</sub> thin film by controlled selenium distribution for improved power conversion efficiency in chalcopyrite solar cells. <i>Applied Surface Science Advances</i> , <b>2021</b> , 6, 100144	2.6	2
5	Role of selenium content in selenization of inkjet printed CIGSe <sub>2</sub> thin film solar cell <b>2019</b> ,		1
4	CIGS absorber layer by single-step non-vacuum intense pulsed light treatment of inkjet-printed film <b>2014</b> ,		1
3	Intense Pulsed Light Sintering Technique for Nanomaterials <b>2012</b> , 577-584		1
2	Investigation on effects of precursor pre-heat treatments on CIGS formation using spin-coated CIG precursor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 1521-1527	2.1	0
1	Sustainable Photovoltaics. <i>Lecture Notes in Energy</i> , <b>2020</b> , 25-85	0.4	