

P Arun

List of Publications by Year in descending order

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47
papers

852
citations

516710

16
h-index

501196

28
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47
all docs

47
docs citations

47
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of grain size on the band-gap of annealed SnS thin films. <i>Thin Solid Films</i> , 2013, 548, 241-246.	1.8	87
2	An accurate formula for the period of a simple pendulum oscillating beyond the small angle regime. <i>American Journal of Physics</i> , 2006, 74, 892-895.	0.7	86
3	Effect of energetic ion irradiation on CdTe films. <i>Journal of Applied Physics</i> , 2004, 95, 7725-7730.	2.5	84
4	Laser-induced crystallization in amorphous films of (C = S, Se, Te), potential optical storage media. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 183-190.	2.8	48
5	Phase modification by instantaneous heat treatment of Sb ₂ S ₃ films and their potential for photothermal optical recording. <i>Journal of Applied Physics</i> , 1996, 79, 4029.	2.5	39
6	Effect of argon ion irradiation on Sb ₂ Te ₃ films in a dense plasma focus device. <i>Materials Research Bulletin</i> , 2000, 35, 477-486.	5.2	39
7	LASER-INDUCED CRYSTALLIZATION IN Sb ₂ S ₃ FILMS. <i>Materials Research Bulletin</i> , 1997, 32, 907-913.	5.2	31
8	Grain size and lattice parameter's influence on band gap of SnS thin nano-crystalline films. <i>Thin Solid Films</i> , 2016, 612, 310-316.	1.8	30
9	Potential of Sb ₂ Se ₃ films for photo-thermal phase change optical storage. <i>Thin Solid Films</i> , 1998, 335, 270-278.	1.8	28
10	White-light emission from annealed ZnO:Si nanocomposite thin films. <i>Journal of Luminescence</i> , 2012, 132, 1744-1749.	3.1	25
11	Ageing effect of Sb ₂ Te ₃ thin films. <i>Physica B: Condensed Matter</i> , 2001, 307, 105-110.	2.7	24
12	Effect of heat treatment on the optical properties of amorphous Sb ₂ S ₃ film: The possibility of optical storage. <i>Journal of Non-Crystalline Solids</i> , 1997, 220, 63-68.	3.1	22
13	Parameters influencing the optical properties of SnS thin films. <i>Journal of Semiconductors</i> , 2013, 34, 093004.	3.7	22
14	The effect of cesium metal clusters on the optical properties of cesium iodide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 305-310.	2.3	21
15	Refractive index of SnS thin nano-crystalline films. <i>Solid State Communications</i> , 2013, 168, 31-35.	1.9	20
16	Suitability of SnS thin films for photovoltaic application due to the existence of persistent photocurrent. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 509-514.	1.5	19
17	Controlling the photoluminescence of ZnO:Si nano-composite films by heat-treatment. <i>Materials Research Bulletin</i> , 2010, 45, 1368-1374.	5.2	16
18	Effect of residual stress on the optical properties of CsCl thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 163-169.	4.0	16

#	ARTICLE	IF	CITATIONS
19	Simple pendulum revisited. European Journal of Physics, 2005, 26, 517-523.	0.6	15
20	Metal cluster's effect on the optical properties of cesium bromide thin films. Applied Physics Letters, 2012, 100, 243106.	3.3	15
21	Size and defect related broadening of photoluminescence spectra in ZnO:Si nanocomposite films. Materials Research Bulletin, 2012, 47, 901-906.	5.2	15
22	Large potential of Sb ₂ Te ₃ films for optical storage. Materials Research Bulletin, 1999, 34, 203-216.	5.2	13
23	On the structure of stibnite (Sb ₂ S ₃). Journal of Materials Science, 1996, 31, 6507-6510.	3.7	12
24	Temperature rise at laser-irradiated spot in a low thermal conducting film. Physica B: Condensed Matter, 1997, 229, 409-415.	2.7	12
25	Localized surface plasmon resonance in SnS:Ag nano-composite films. Journal of Applied Physics, 2014, 115, 204512.	2.5	12
26	Improved efficiency of plasmonic tin sulfide solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 5107-5113.	2.2	11
27	Influence of grain size on the electrical properties of Sb ₂ Te ₃ polycrystalline films. Materials Research Bulletin, 2003, 38, 1929-1938.	5.2	9
28	Contribution of lattice parameter and vacancies on anisotropic optical properties of tin sulphide. Journal of Alloys and Compounds, 2018, 746, 9-18.	5.5	9
29	Characterization of ZnO:Si nanocomposite films grown by thermal evaporation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 7068-7072.	2.1	7
30	Film thickness controlled photoluminescence emission in ZnO:Si nanocomposite. Optical Materials, 2012, 35, 314-316.	3.6	7
31	Optimization of SnS active layer thickness for solar cell application. Journal of Semiconductors, 2017, 38, 113001.	3.7	7
32	Large grain size dependence of resistance of polycrystalline films. Physica B: Condensed Matter, 2002, 322, 289-296.	2.7	6
33	Study of CdI ₂ nanocrystals dispersed in amorphous Sb ₂ S ₃ matrix. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 364, 157-162.	2.1	6
34	Defect diffusion assisted formation of cesium metal clusters in cesium halide thin films. Journal of Taibah University for Science, 2017, 11, 1238-1244.	2.5	6
35	Plasmon coupling and aging effect in CsCl:Ag thin films. Materials Research Express, 2018, 5, 096405.	1.6	6
36	Tunability of Surface Plasmon Resonance Peaks in CsI:Ag Films by Growth Conditions. Plasmonics, 2020, 15, 735-741.	3.4	6

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37	SPR sensitivity of silver nanorods in CsBr-Ag nanocomposite thin films. <i>Materials Research Express</i> , 2016, 3, 076403.	1.6	5
38	Surface Plasmon Near Field Effects in Silver Nano Cylinders Arranged in Triangular Geometry. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1418-1424.	0.4	4
39	Photovoltaic performance of hybrid ITO/PEDOT:PSS/n-SnS/Al solar cell structure. <i>Journal of Semiconductors</i> , 2016, 37, 074002.	3.7	4
40	Hysteresis-like behavior of resistivity of thin films in heating-cooling cycle. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 313, 126-131.	2.1	2
41	Influence of strain on the sensitivity of tin sulphide films. <i>Materials Chemistry and Physics</i> , 2017, 191, 86-88.	4.0	2
42	<i>Ab initio</i> calculation of stressed cesium iodide lattices and resulting surface plasmon resonance peak shifts. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850205.	2.0	2
43	On the structure of ZnI ₂ . <i>Journal of Materials Science</i> , 2005, 40, 4141-4143.	3.7	1
44	Luminescence behavior of CsI:Ag thin films. <i>Materials Science in Semiconductor Processing</i> , 2020, 110, 104881.	4.0	1
45	Occurrence of hysteresis-like behavior of resistance of film in the dynamical measurement of heating-cooling cycle. <i>Physica B: Condensed Matter</i> , 2005, 362, 158-166.	2.7	0
46	Classroom. <i>Resonance</i> , 2010, 15, 244-256.	0.3	0
47	SPR in Cesium Halide Thin Films Due to Embedded Elliptic Cesium Metal Nano-Particles. <i>Ukrainian Journal of Physics</i> , 2018, 63, 824.	0.2	0