Preetam Singh

List of Publications by Year
in descending order

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43 papers	1,261 citations	394421 19 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	1415 citing authors

#	Article	IF	Citations
1	Comparative study on surface states and CO gas sensing characteristics of CuO thin films synthesised by vacuum evaporation and sputtering processes. Materials Research Bulletin, 2022, 145, 111567.	5.2	23
2	Preparation of nanocrystalline Pd/SnO2 thin films deposited on alumina substrate by reactive magnetron sputtering for efficient CO gas sensing. Materials Research Bulletin, 2022, 148, 111692.	5.2	26
3	Room temperature sputtered nanocrystalline SnO2 thin films sensitized with Pd nanoparticles for high performance CO gas sensing application. Optical Materials, 2022, 128, 112362.	3.6	14
4	Investigation of cerium oxide thin film thickness using THz spectroscopy for non-destructive measurement. Journal of Optics (India), 2021, 50, 90-94.	1.7	2
5	Low-temperature highly selective and sensitive NO2 gas sensors using CdTe-functionalized ZnO filled porous Si hybrid hierarchical nanostructured thin films. Sensors and Actuators B: Chemical, 2021, 327, 128862.	7.8	55
6	High performing flexible optoelectronic devices using thin films of topological insulator. Scientific Reports, 2021, 11, 832.	3.3	24
7	Corrigendum to â€œMagnetron configurations dependent surface properties of SnO2 thin films deposited by sputtering processâ€•[Vacuum 177 (2020) 109353]. Vacuum, 2021, 184, 109885.	3.5	0
8	Effect of post-oxidation processes and thickness of SnO2 films prepared by vacuum evaporation on CO gas sensing characteristics. Ceramics International, 2021, 47, 13015-13022.	4.8	9
9	Investigation of structural aspect in terms of atypical phases within material deposited for a-Si:H solar cell fabrication. Advanced Materials Proceedings, 2021, 1, 32-37.	0.2	1
10	Influence of magnetron configurations on the structure and properties of room temperature sputtered ZnO thin films. Physica Scripta, 2021, 96, 015811.	2.5	7
11	Efficiency Measurement of Organic Solar Cells Using Apex Calibration Facility at CSIRâ€“National Physical Laboratory. Applied Solar Energy (English Translation of Geliotekhnika), 2021, 57, 261-271.	1.6	1
12	Fabrication of highly responsive room temperature H2 sensor based on vertically aligned edge-oriented MoS2 nanostructured thin film functionalized by Pd nanoparticles. Sensors and Actuators B: Chemical, 2020, 325, 128800.	7.8	38
13	Highly responsive, low-bias operated SnSe2 nanostructured thin film for trap-assisted NIR photodetector. Journal of Alloys and Compounds, 2020, 838, 155384.	5.5	26
14	Effect of bulk and surface modification of SnO2 thin films with PdO catalyst on CO gas sensing characteristics prepared by vacuum evaporation process. Journal of Alloys and Compounds, 2020, 843, 155979.	5.5	18
15	Magnetron configurations dependent surface properties of SnO2 thin films deposited by sputtering process. Vacuum, 2020, 177, 109353.	3.5	19
16	Metrology for Atmospheric Environment. , 2020, , 691-729.		1
17	Optimization of electroless plating of gold during MACE for through etching of silicon wafer. Materials Science in Semiconductor Processing, 2019, 100, 140-144.	4.0	3
18	Effect of balanced and unbalanced magnetron sputtering processes on the properties of SnO2 thin films. Current Applied Physics, 2019, 19, 697-703.	2.4	29

#	Article	IF	Citations
19	Investigation of dynamic optical behavior of CeO2 thin film using terahertz spectroscopy. Optical Materials, 2018, 85, 295-297.	3.6	6
20	Influence of growth temperature on structural and optical properties of laser MBE grown epitaxial thin GaN films on a-plane sapphire. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 04G102.	1.2	6
21	X-ray photoelectron spectroscopic studies of CeO2 thin films deposited on Ni-W (100), c-Al2O3 (0001) and Si (100) substrates. Current Applied Physics, 2016, 16, 1388-1394.	2.4	7
22	Ultrafast pump-probe spectroscopy studies of CeO2 thin film deposited on Ni-W substrate by RF magnetron sputtering. Optical Materials, 2016, 58, 1-4.	3.6	5
23	Spectroscopic identification of ultranano-crystalline phases within amorphous/nano-crystalline silicon. Advanced Materials Letters, 2016, 8, 163-169.	0.6	1
24	Synthesis of CeO2 microcrystals fabricated on biaxially textured Ni-W substrate by using an e-beam evaporation technique. Journal of the Korean Physical Society, 2015, 66, 726-729.	0.7	1
25	Growth And Characterization Of Large Grained Poly-Si Films Grown On Biaxially Textured Ni-W Substrate By Hot-wire CVD. Advanced Materials Letters, 2015, 6, 436-441.	0.6	1
26	Effect Of Substrate Temperature On Nanocrystalline CeO2 Thin Films Deposited On Si Substrate By RF Magnetron Sputtering. Advanced Materials Letters, 2015, 6, 371-376.	0.6	16
27	Single Oriented CeO2 Buffer Layer Deposition On Biaxially Textured Ni-W Substrate By RF Magnetron Sputtering. Advanced Materials Letters, 2015, 6, 883-887.	0.6	2
28	Growth And Field Emission Properties Of Vertically-aligned ZnO Nanowire Array On Biaxially Textured Ni-W Substrate By Thermal Evaporation. Advanced Materials Letters, 2015, 6, 862-866.	0.6	2
29	Structural, optical and magnetic properties of Nd-doped BiFeO3 thin films prepared by pulsed laser deposition. Physica B: Condensed Matter, 2011, 406, 1877-1882.	2.7	48
30	Room temperature growth of nanocrystalline anatase TiO2 thin films by dc magnetron sputtering. Physica B: Condensed Matter, 2010, 405, 1258-1266.	2.7	71
31	Effect of oxygen annealing on magnetic, electric and magnetodielectric properties of Ba-doped BiFeO3. Physica B: Condensed Matter, 2010, 405, 1086-1089.	2.7	26
32	Magnetic and ferroelectric properties of epitaxial Sr-doped thin films. Solid State Communications, 2010, 150, 431-434.	1.9	14
33	Mn-doped ZnO nanocrystalline thin films prepared by ultrasonic spray pyrolysis. Journal of Alloys and Compounds, 2009, 471, 11-15.	5.5	145
34	In situ high temperature XRD studies of ZnO nanopowder prepared via cost effective ultrasonic mist chemical vapour deposition. Bulletin of Materials Science, 2008, 31, 573-577.	1.7	121
35	Substrate effect on texture properties of nanocrystalline TiO2 thin films. Physica B: Condensed Matter, 2008, 403, 3769-3773.	2.7	34
36	Structural and optical studies of nanocrystalline V2O5 thin films. Thin Solid Films, 2008, 516, 912-918.	1.8	103

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37	ZnO nanocrystalline powder synthesized by ultrasonic mist-chemical vapour deposition. Optical Materials, 2008, 30, 1316-1322.	3.6	49
38	Influence of film thickness on texture and electrical and optical properties of room temperature deposited nanocrystalline V2O5 thin films. Journal of Applied Physics, 2008, 103, .	2.5	64
39	Intrinsic magnetism in Zn_{1â^'x}Co_xO (0.03â‰¤xâ‰¤0.10) thin films prepared by ultrasonic spray pyrolysis. Journal of Physics Condensed Matter, 2008, 20, 315005.	1.8	17
40	Growth and characterization of ZnO nanocrystalline thin films and nanopowder via low-cost ultrasonic spray pyrolysis. Journal of Crystal Growth, 2007, 306, 303-310.	1.5	135
41	Effect of oxygen partial pressure on the structural and optical properties of sputter deposited ZnO nanocrystalline thin films. Materials Letters, 2007, 61, 2050-2053.	2.6	52
42	Substrate effect on electrical transport properties of RNiO3thin films prepared by pulsed laser deposition. Journal Physics D: Applied Physics, 2006, 39, 5310-5315.	2.8	27
43	Low cost synthesis of high-Tc superconducting films on metallic substrates via ultrasonic spray pyrolysis. Cryogenics, 2006, 46, 749-758.	1.7	12