

# P P Sahay

## List of Publications by Year in descending order

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64  
papers

2,696  
citations

186265

28  
h-index

182427

51  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Al-doped ZnO thin films as methanol sensors. Sensors and Actuators B: Chemical, 2008, 134, 654-659.	7.8	357
2	Zinc oxide thin film gas sensor for detection of acetone. Journal of Materials Science, 2005, 40, 4383-4385.	3.7	221
3	Optical properties of thermally evaporated CdS thin films. Crystal Research and Technology, 2007, 42, 275-280.	1.3	163
4	Al-doped zinc oxide thin films for liquid petroleum gas (LPG) sensors. Sensors and Actuators B: Chemical, 2008, 133, 222-227.	7.8	154
5	Influence of Cu doping on the structural, photoluminescence and formaldehyde sensing properties of SnO <sub>2</sub> nanoparticles. RSC Advances, 2014, 4, 3904-3912.	3.6	92
6	SnO <sub>2</sub> quantum dots decorated on RGO: a superior sensitive, selective and reproducible performance for a H <sub>2</sub> and LPG sensor. Nanoscale, 2015, 7, 11971-11979.	5.6	92
7	Alcohol-sensing characteristics of spray deposited ZnO nano-particle thin films. Sensors and Actuators B: Chemical, 2011, 160, 1043-1049.	7.8	91
8	Nanocube In <sub>2</sub> O <sub>3</sub> @RGO heterostructure based gas sensor for acetone and formaldehyde detection. RSC Advances, 2017, 7, 38714-38724.	3.6	90
9	Sprayed ZnO thin films for ethanol sensors. Journal of Materials Science, 2005, 40, 4791-4793.	3.7	88
10	Structural, dielectric and photoluminescence properties of co-precipitated Zn-doped SnO <sub>2</sub> nanoparticles. Current Applied Physics, 2013, 13, 479-486.	2.4	79
11	Structural and alcohol response characteristics of Sn-doped WO <sub>3</sub> nanosheets. Sensors and Actuators B: Chemical, 2014, 193, 19-27.	7.8	67
12	Enhanced acetone response in co-precipitated WO <sub>3</sub> nanostructures upon indium doping. Sensors and Actuators B: Chemical, 2015, 209, 368-376.	7.8	65
13	Structural, optical and methanol sensing properties of sprayed In <sub>2</sub> O <sub>3</sub> nanoparticle thin films. Ceramics International, 2012, 38, 4151-4158.	4.8	60
14	Optical and electrical studies on spray deposited ZnO thin films. Crystal Research and Technology, 2007, 42, 723-729.	1.3	59
15	Influence of In doping on the structural, optical and acetone sensing properties of ZnO nanoparticulate thin films. Materials Science in Semiconductor Processing, 2013, 16, 200-210.	4.0	55
16	Cr-doped WO <sub>3</sub> nanosheets: Structural, optical and formaldehyde sensing properties. Ceramics International, 2016, 42, 15301-15310.	4.8	53
17	Studies on ac response of zinc oxide pellets. Journal of Materials Science, 2008, 43, 4534-4540.	3.7	50
18	Zn-doped and undoped SnO <sub>2</sub> nanoparticles: A comparative structural, optical and LPG sensing properties study. Materials Research Bulletin, 2012, 47, 4112-4118.	5.2	48

#	ARTICLE	IF	CITATIONS
19	Alloying, magnetic and corrosion behavior of AlCrFeMnNiTi high entropy alloy. <i>Journal of Materials Science</i> , 2019, 54, 4433-4443.	3.7	48
20	Synthesis, characterization and alcohol sensing property of Zn-doped SnO <sub>2</sub> nanoparticles. <i>Ceramics International</i> , 2012, 38, 2295-2304.	4.8	47
21	Improved electrochromic performance in sprayed WO <sub>3</sub> thin films upon Sb doping. <i>Journal of Alloys and Compounds</i> , 2016, 660, 336-341.	5.5	44
22	Effect of Al dopants on the structural, optical and gas sensing properties of spray-deposited ZnO thin films. <i>Materials Chemistry and Physics</i> , 2013, 142, 276-285.	4.0	40
23	Influence of Fe doping on the structural, optical and acetone sensing properties of sprayed ZnO thin films. <i>Materials Research Bulletin</i> , 2013, 48, 2687-2695.	5.2	39
24	Spray-deposited nanocrystalline WO <sub>3</sub> thin films prepared using tungsten hexachloride dissolved in N-N dimethylformamide and influence of in doping on their structural, optical and electrical properties. <i>Electronic Materials Letters</i> , 2014, 10, 401-410.	2.2	38
25	Sensing of LPG with nanostructured zinc oxide thin films grown by spray pyrolysis technique. <i>Physica B: Condensed Matter</i> , 2011, 406, 2684-2688.	2.7	35
26	Sn-Ga co-doping in sol-gel derived ZnO thin films: Studies of their microstructural, optical, luminescence and electrical properties. <i>Materials Science in Semiconductor Processing</i> , 2020, 118, 105178.	4.0	32
27	Effect of precursors on structure, optical and electrical properties of chemically deposited nanocrystalline ZnO thin films. <i>Applied Surface Science</i> , 2012, 258, 2823-2828.	6.1	31
28	Optoelectronics and formaldehyde sensing properties of tin-doped ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 651-662.	2.3	31
29	Growth, structure and optical characterization of Al-doped ZnO nanoparticle thin films. <i>Crystal Research and Technology</i> , 2011, 46, 1086-1092.	1.3	28
30	Experimental Investigation of Spray-Deposited Fe-Doped ZnO Nanoparticle Thin Films: Structural, Microstructural, and Optical Properties. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 1230-1241.	3.1	28
31	Sn-Doped In <sub>2</sub> O <sub>3</sub> Nanocrystalline Thin Films Deposited by Spray Pyrolysis: Microstructural, Optical, Electrical, and Formaldehyde-Sensing Characteristics. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 1035-1043.	3.1	27
32	Results on the microstructural, optical and electrochromic properties of spray-deposited MoO <sub>3</sub> thin films by the influence of W doping. <i>Materials Science in Semiconductor Processing</i> , 2019, 104, 104668.	4.0	23
33	The effects of Sn-In co-doping on the structural, optical, photoluminescence and electrical characteristics of the sol-gel processed ZnO thin films. <i>Optical Materials</i> , 2020, 110, 110395.	3.6	23
34	Effect of precursors on the microstructural, optical, electrical and electrochromic properties of WO <sub>3</sub> nanocrystalline thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6293-6305.	2.2	21
35	Modification in the microstructural and electrochromic properties of spray-pyrolysed WO <sub>3</sub> thin films upon Mo doping. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 281-295.	2.4	21
36	Tin-Incorporation Induced Changes in the Microstructural, Optical, and Electrical Behavior of Tungsten Oxide Nanocrystalline Thin Films Grown Via Spray Pyrolysis. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 1445-1455.	3.1	19

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37	AC transport properties of nanocrystalline SnO <sub>2</sub> semiconductor. <i>Ceramics International</i> , 2012, 38, 1281-1286.	4.8	18
38	Influence of In doping on the structural, photo-luminescence and alcohol response characteristics of the SnO <sub>2</sub> nanoparticles. <i>Materials Research Bulletin</i> , 2013, 48, 4196-4205.	5.2	18
39	Structural, morphological, optical and electrical properties of spray-deposited Sb-doped WO <sub>3</sub> nanocrystalline thin films prepared using ammonium tungstate precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2697-2708.	2.2	16
40	Influence of electrodeposition modes on the electrochemical performance of MnO <sub>2</sub> films prepared using anionic MnO <sub>4</sub> <sup>2-</sup> (Mn <sup>7+</sup> ) precursor. <i>Ceramics International</i> , 2018, 44, 5710-5718.	4.8	16
41	Influence of Ti doping on the microstructural and electrochromic properties of dip-coated nanocrystalline V <sub>2</sub> O <sub>5</sub> thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 34-51.	2.4	16
42	Synthesis, characterizations, and magnetic properties of FeCoNiTi-based high-entropy alloys. <i>Emergent Materials</i> , 2020, 3, 655-662.	5.7	16
43	Modification in the physical properties of nanocrystalline ZnO thin films by Sn/Ni co-doping for transparent conductive oxide applications. <i>Physica B: Condensed Matter</i> , 2022, 629, 413638.	2.7	16
44	Electrochemical supercapacitive performance of potentiostatically cathodic electrodeposited nanostructured MnO <sub>2</sub> films. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2393-2405.	2.5	13
45	Tailoring the Microstructural, Optical, and Electrical Properties of Nanocrystalline WO <sub>3</sub> Thin Films Using Al Doping. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3141-3151.	2.5	12
46	Structure, Optical and Formaldehyde Sensing Properties of Co-Precipitated Fe-Doped WO <sub>3</sub> Nanomaterials. <i>Nano</i> , 2015, 10, 1550113.	1.0	11
47	Cr-induced modifications in the structural, photoluminescence and acetone-sensing behaviour of hydrothermally synthesised SnO <sub>2</sub> nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1042-1056.	2.4	11
48	Lithium doping in spray-pyrolyzed NiO thin films: results on their microstructural, optical and electrochromic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	11
49	Supercapacitive performance of electrochemically synthesized nanocrystalline MnO <sub>2</sub> films using different plating solutions: A comparative study. <i>Journal of Alloys and Compounds</i> , 2018, 749, 172-179.	5.5	10
50	Structural, dielectric, and electrical studies on thermally evaporated CdTe thin films. <i>Journal of Materials Science</i> , 2009, 44, 534-540.	3.7	9
51	Electrical characterization of interface states in Ni/n-Si(111) Schottky diodes from (C-V) characteristics. <i>Microelectronics Journal</i> , 1992, 23, 625-632.	2.0	7
52	Volatile Organic Compounds (VOCs) Response Characteristics of the Hydrothermally Synthesized SnO <sub>2</sub> Nanocapsules. <i>Sensor Letters</i> , 2013, 11, 1611-1616.	0.4	7
53	On the electrical conductivity of thermally evaporated CdS thin films. <i>Journal of Materials Science Letters</i> , 2002, 21, 923-925.	0.5	6
54	Microstructural, optical and electrochromical properties of W-doped Nb <sub>2</sub> O <sub>5</sub> thin films prepared by dip-coating process using sols obtained by the chloroalkoxide route. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17999-18014.	2.2	5

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55	Effects of hydrogenation on the electrical characteristics of Ni/n-Si(111) Schottky diodes. Solid-State Electronics, 1991, 34, 727-729.	1.4	4
56	Multifunctional metal oxide nanomaterials for chemical gas sensing. Procedia Engineering, 2017, 215, 145-151.	1.2	4
57	Galvanostatically deposited Co <sub>3</sub> O <sub>4</sub> –NiO nanocomposite thin films onto FTO glass substrates: An investigation of their microstructural and supercapacitive properties. Journal of Alloys and Compounds, 2021, 867, 159022.	5.5	3
58	Precursor-Dependent Spray-Pyrolyzed Co <sub>3</sub> O <sub>4</sub> Thin Films: Comparative Results on Their Structural, Optical, and Electrical Properties. Brazilian Journal of Physics, 2022, 52, 1.	1.4	3
59	Characterization of interface states at Ni/n-Si Schottky barriers from I–V characteristics. Crystal Research and Technology, 1990, 25, 1461-1467.	1.3	2
60	Role of hydrogen in interface states parameters of Ni/n-Si (111) Schottky diodes: (c-v) studies. Journal of Materials Science Letters, 1991, 10, 556-558.	0.5	1
61	Electrical characterization of semiconducting polycrystalline GaxIn(1-x)Sb alloys. Journal of Materials Science, 1992, 27, 4075-4079.	3.7	1
62	Electrical properties of vacuum-evaporated CdTe thin films. Journal of Materials Science Letters, 2001, 20, 1933-1935.	0.5	1
63	Transport properties of semiconducting GaxIn1-xSb solid solutions. , 1992, 1523, 73.		0
64	Hydrogenation effects on Ni/n-Si(111) Schottky diode characteristics. Proceedings of SPIE, 1992, , .	0.8	0