

Aman Mahajan

List of Publications by Year in descending order

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citations

236833

25
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39
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100
all docs

100
docs citations

100
times ranked

2138
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-crystalline Fe ₂ O ₃ thin films for ppm level detection of H ₂ S. Sensors and Actuators B: Chemical, 2013, 181, 471-478.	4.0	110
2	Self-Powered Monitoring of Ammonia Using an MXene/TiO ₂ /Cellulose Nanofiber Heterojunction-Based Sensor Driven by an Electrospun Triboelectric Nanogenerator. ACS Sensors, 2022, 7, 312-321.	4.0	87
3	Enhanced H ₂ S sensing characteristics of Au modified Fe ₂ O ₃ thin films. Sensors and Actuators B: Chemical, 2015, 219, 125-132.	4.0	77
4	Chemiresistive gas sensing properties of nanocrystalline Co ₃ O ₄ thin films. Sensors and Actuators B: Chemical, 2013, 176, 38-45.	4.0	74
5	Aggregation Induced Emission Enhancement in Ionic Self-Assembled Aggregates of Benzimidazolium Based Cyclophane and Sodium Dodecylbenzenesulfonate. Organic Letters, 2013, 15, 3400-3403.	2.4	64
6	Sn O ₂ thick films for room temperature gas sensing applications. Journal of Applied Physics, 2009, 106, .	1.1	63
7	Structural, optical and magnetic properties of Sm doped ZnO at dilute concentrations. RSC Advances, 2016, 6, 78122-78131.	1.7	62
8	Highly selective colorimetric sensor for Zn ²⁺ based on hetarylazo derivative. Inorganic Chemistry Communication, 2008, 11, 626-629.	1.8	61
9	Ultratrace Detection of Nitroaromatics: Picric Acid Responsive Aggregation/Disaggregation of Self-Assembled <i>p</i> -Terphenylbenzimidazolium-Based Molecular Baskets. ACS Applied Materials & Interfaces, 2015, 7, 10491-10500.	4.0	58
10	Temperature dependent H ₂ S and Cl ₂ sensing selectivity of Cr ₂ O ₃ thin films. Sensors and Actuators B: Chemical, 2011, 157, 466-472.	4.0	53
11	Solution processed films and nanobelts of substituted zinc phthalocyanine as room temperature ppb level Cl ₂ sensors. Sensors and Actuators B: Chemical, 2014, 198, 164-172.	4.0	51
12	Multifractal analysis of drop-casted copper (II) tetrasulfophthalocyanine film surfaces on the indium tin oxide substrates. Surface and Interface Analysis, 2014, 46, 393-398.	0.8	46
13	Multifractal characterization of water soluble copper phthalocyanine based films surfaces. Electronic Materials Letters, 2014, 10, 719-730.	1.0	46
14	Room temperature ppb level Cl ₂ detection and sensing mechanism of highly selective and sensitive phthalocyanine nanowires. Sensors and Actuators B: Chemical, 2014, 203, 17-24.	4.0	39
15	Improved Cl ₂ sensing characteristics of reduced graphene oxide when decorated with copper phthalocyanine nanoflowers. RSC Advances, 2017, 7, 25229-25236.	1.7	37
16	Dansyl conjugated tripodal AIEEgen for highly selective detection of 2,4,6-trinitrophenol in water and solid state. Sensors and Actuators B: Chemical, 2016, 231, 79-87.	4.0	36
17	Non-covalently anchored multi-walled carbon nanotubes with hexa-decafluorinated zinc phthalocyanine as ppb level chemiresistive chlorine sensor. Applied Surface Science, 2018, 427, 202-209.	3.1	36
18	Silver nanoparticles anchored reduced graphene oxide for enhanced electrocatalytic activity towards methanol oxidation. Chemical Physics Letters, 2018, 693, 23-27.	1.2	32

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19	Reversible and fast responding ppb level Cl ₂ sensor based on noncovalent modified carbon nanotubes with Hexadecafluorinated copper phthalocyanine. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 87-99.	4.0	32
20	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing. <i>Synthetic Metals</i> , 2019, 258, 116223.	2.1	32
21	Effect of the crystallinity of silver nanoparticles on surface plasmon resonance induced enhancement of effective absorption cross-section of dyes. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	30
22	CNTs based improved chlorine sensor from non-covalently anchored multi-walled carbon nanotubes with hexa-decafluorinated cobalt phthalocyanines. <i>RSC Advances</i> , 2017, 7, 49675-49683.	1.7	30
23	Bimetallic Implanted Plasmonic Photoanodes for TiO ₂ Sensitized Third Generation Solar Cells. <i>Scientific Reports</i> , 2020, 10, 7657.	1.6	30
24	Modification of SnO ₂ surface oxygen vacancies through Er doping for ultralow NO ₂ detection. <i>Materials Research Bulletin</i> , 2021, 133, 111051.	2.7	28
25	Phthalocyanine based nanowires and nanoflowers as highly sensitive room temperature Cl ₂ sensors. <i>RSC Advances</i> , 2014, 4, 15945.	1.7	27
26	Ag ion implanted TiO ₂ photoanodes for fabrication of highly efficient and economical plasmonic dye sensitized solar cells. <i>Chemical Physics Letters</i> , 2020, 740, 137070.	1.2	25
27	Room temperature highly sensitive chlorine sensor based on reduced graphene oxide anchored with substituted copper phthalocyanine. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128925.	4.0	25
28	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes. <i>RSC Advances</i> , 2019, 9, 20375-20384.	1.7	24
29	Nanostructured Sb doped SnO ₂ thick films for room temperature NH ₃ sensing. <i>Chemical Physics Letters</i> , 2010, 492, 119-122.	1.2	22
30	Morpho-structural and opto-electrical properties of chemically tuned nanostructured TiO ₂ . <i>Ceramics International</i> , 2018, 44, 18484-18490.	2.3	22
31	Broadband enhancement in absorption cross-section of N719 dye using different anisotropic shaped single crystalline silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 48064-48071.	1.7	20
32	Ultrasensitive yttrium modified tin oxide thin film based sub-ppb level NO ₂ detector. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129169.	4.0	19
33	Efficiency enhancement in dye sensitized solar cells using dual function mesoporous silica as scatterer and back recombination inhibitor. <i>Chemical Physics Letters</i> , 2016, 658, 276-281.	1.2	18
34	Surfactant assisted growth of nanostructured tin oxide films for gas sensing applications. <i>Electronic Materials Letters</i> , 2011, 7, 303-308.	1.0	17
35	Effect of cationic/anionic organic surfactants on evaporation induced self assembled tin oxide nanostructured films. <i>Applied Surface Science</i> , 2011, 257, 2929-2934.	3.1	16
36	TiO ₂ nanofibers fabricated by electrospinning technique and degradation of MO dye under UV light. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2021, 236, 239-250.	0.4	16

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37	Ni ²⁺ enriched carbon nanotubes nanohybrids based non-platinum counter electrodes for dye sensitized solar cells. <i>Solar Energy</i> , 2021, 226, 31-39.	2.9	16
38	Synthesis and characterization of excited state intramolecular proton transfer based 2-hydroxylaryl imidazole fluorescent materials. <i>Synthetic Metals</i> , 2012, 162, 58-63.	2.1	14
39	Tailoring of the chlorine sensing properties of substituted metal phthalocyanines non-covalently anchored on single-walled carbon nanotubes. <i>RSC Advances</i> , 2018, 8, 32719-32730.	1.7	14
40	Ag implanted TiO ₂ nanoparticle/nanofibers composites for dye sensitized solar cells applications. <i>Solar Energy</i> , 2022, 241, 109-119.	2.9	14
41	Designing and synthesis of imidazole based hole transporting material for solid state dye sensitized solar cells. <i>Synthetic Metals</i> , 2015, 205, 92-97.	2.1	12
42	Optimization of Ni ²⁺ /Ni ³⁺ ratio in reduced graphene oxide/nickel oxide nanohybrids for platinum free dye sensitized solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 191-197.	1.9	12
43	Electrospun PVP/TiO ₂ Nanofibers for Filtration and Possible Protection from Various Viruses like COVID-19. <i>Technologies</i> , 2021, 9, 89.	3.0	12
44	Plasmonic Engineering of TiO ₂ Photoanodes for Dye-Sensitized Solar Cells: A Review. <i>Journal of Electronic Materials</i> , 2022, 51, 4188-4206.	1.0	12
45	Diazonium chemistry for making highly selective and sensitive CNT-Neutral Red hybrid-based chemiresistive acetone sensors. <i>Vacuum</i> , 2018, 155, 656-661.	1.6	11
46	Rare earth-tuned oxygen vacancies in gadolinium-doped tin oxide for selective detection of volatile organic compounds. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8446-8455.	1.1	11
47	Structural, optical, and electrical characterization of hot wall epitaxy grown 1-methoxy-8-hydroxy-9,10-anthraquinone films. <i>Journal of Applied Physics</i> , 2001, 89, 7866-7870.	1.1	9
48	Characterization of hot wall grown silver phthalocyanine films. <i>Journal of Applied Physics</i> , 2007, 102, 073502.	1.1	9
49	Synthesis and characterization of nanostructured 1,3-bis(1-anthracenylazomethine)benzene films for room temperature NH ₃ gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 122-127.	4.0	9
50	Synthesis and characterization of sol-gel derived Cr ₂ O ₃ nanoparticles. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	9
51	Dielectric spectroscopic studies of boron subphthalocyanine chloride thin films. <i>Electronic Materials Letters</i> , 2013, 9, 101-106.	1.0	9
52	Study of junction charge transport properties of boron subphthalocyanine chloride thin film. <i>Electronic Materials Letters</i> , 2015, 11, 118-126.	1.0	9
53	Room temperature ppb level detection of chlorine using peripherally alkoxy substituted phthalocyanine/SWCNTs based chemiresistive sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130870.	4.0	9
54	Mobility modulation in low carrier concentration organic semiconducting thin films by varying disorder parameters. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	8

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55	Optimized reduction of graphite oxide for highly exfoliated silver nanoparticles anchored graphene sheets for dye sensitized solar cell applications. <i>Electrochimica Acta</i> , 2018, 265, 131-139.	2.6	8
56	Characterization of thermally evaporated 1,8-diacetoxy-9,10-anthraquinone films. <i>Thin Solid Films</i> , 2001, 398-399, 82-86.	0.8	7
57	Anisotropic charge transport properties in boron sub phthalocyanine chloride thin films. <i>Journal of Applied Physics</i> , 2017, 121, 095501.	1.1	7
58	MoS ₂ nanorods anchored reduced graphene oxide nano hybrids for electrochemical energy conversion applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114589.	1.3	7
59	Effect of dilute concentrations of Sm on the temperature dependent electrical and dielectric properties of ZnO. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4023-4037.	1.9	6
60	Solution processable transition metal oxide ultra-thin films as alternative electron transport and hole blocking layers in dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 418, 113385.	2.0	6
61	Characterization of 1,4-/1,8-dihydroxy-9,10-anthraquinone films. <i>Thin Solid Films</i> , 2001, 385, 36-42.	0.8	5
62	Electron beam evaporated tin oxide thin films for thermistor applications. <i>Materials Today: Proceedings</i> , 2020, 26, 3462-3465.	0.9	5
63	Painted CNT@Au nanoparticles: a nano hybrid electrocatalyst of direct methanol oxidation. <i>Emergent Materials</i> , 2021, 4, 515-524.	3.2	5
64	Substituted copper phthalocyanine/multiwalled carbon nanotubes hybrid material for Cl ₂ sensing application. , 2014, , .		4
65	Physicochemical properties of Tin (IV) oxide synthesized by different methods and from different precursors. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1155-1168.	1.6	4
66	Characterization of hot wall epitaxy grown 1-(2-methoxy benzyloxy)-8-hydroxy-9,10-anthraquinone films. <i>Thin Solid Films</i> , 2002, 420-421, 392-397.	0.8	3
67	Synthesis and characterization of 1-phenyl-3-(4-phenyl-[1,2,3]triazol-1-yl)-4-styryl-azetidin-2-one films for light-emitting applications. <i>Thin Solid Films</i> , 2010, 519, 1501-1505.	0.8	3
68	Characterization Of Hot Wall Grown 9, 10-Dichloroanthracene Films For Light Emitting Applications. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	3
69	CHARACTERIZATION OF DROP CASTED CuTsPc FILMS ON ITO SUBSTRATES. <i>International Journal of Nanoscience</i> , 2013, 12, 1350001.	0.4	3
70	Substituted zinc phthalocyanine based nanowires for room temperature ppb level Cl ₂ sensing application. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	3
71	Structural, optical and electrical characterization of hot wall grown 9,10-dibromoanthracene films for light emitting applications. <i>Electronic Materials Letters</i> , 2014, 10, 199-204.	1.0	3
72	Kinetic response study in chemiresistive gas sensor based on carbon nanotube surface functionalized with substituted phthalocyanines. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3

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73	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films. Materials Today: Proceedings, 2020, 26, 3386-3389.	0.9	3
74	Phase Variation of Ultrathin WO ₃ Electron Transport Layer Prepared by Scalable Langmuir-Blodgett Technique to Boost Efficiency of Dye Sensitized Solar Cells. Solar Rrl, 2022, 6, .	3.1	3
75	Enhanced H ₂ S response of Au modified Fe ₂ O ₃ thin films. , 2013, , .		2
76	Dielectric studies of boron sub phthalocyanine chloride thin films by admittance spectroscopic techniques. AIP Conference Proceedings, 2016, , .	0.3	2
77	Up-converting rare earth phosphor yttrium doped TiO ₂ material for dye sensitized solar cells application. AIP Conference Proceedings, 2020, , .	0.3	2
78	Room Temperature ppb Level Chlorine Gas Sensor Based on Copper (II) 1, 4, 8, 11, 15, 18, 22, 25-octabutoxy-29 H, 31 H-phthalocyanine Films. , 2010, , .		1
79	Preparation and characterization of oxadiazole based electron transporting thin films. Electronic Materials Letters, 2012, 8, 429-434.	1.0	1
80	Lakshita " Mining and research hub at L5. Advances in Space Research, 2013, 52, 1063-1071.	1.2	1
81	Solution processed CuPc based nanowires for room temperature Cl ₂ gas sensing applications. , 2013, , .		1
82	CTAB capped silver nanoparticles for plasmonic dye-sensitized solar cell. AIP Conference Proceedings, 2014, , .	0.3	1
83	Tungsten disulfide nanoparticles anchored on reduced graphene oxide for dye sensitized solar cell applications. AIP Conference Proceedings, 2018, , .	0.3	1
84	Influence of erbium doping on electrical properties and thermal sensitivity of tin oxide based temperature sensor. AIP Conference Proceedings, 2020, , .	0.3	1
85	Phthalocyanine based 1D nanowires for device applications. , 2012, , .		0
86	Improvement of room temperature ppb level Cl ₂ sensing characteristics of copper phthalocyanine film. , 2013, , .		0
87	Growth of amino substituted anthracene thin films under non thermal equilibrium conditions. Electronic Materials Letters, 2014, 10, 929-934.	1.0	0
88	Educational Space Settlement: Mantavya. Astropolitics, 2015, 13, 88-99.	0.2	0
89	Room temperature ferromagnetism and luminescent behavior of Ni doped ZnO nanoparticles prepared by coprecipitation method. AIP Conference Proceedings, 2016, , .	0.3	0
90	Growth and characterization of macroscopic reduced graphene oxide paper for device application. AIP Conference Proceedings, 2016, , .	0.3	0

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91	Bisbenzimidazole based molecule as violet fluorescent material. AIP Conference Proceedings, 2018, , .	0.3	0
92	Sensing performance of rGO/phthalocyanine based hybrid at room temperature. AIP Conference Proceedings, 2019, , .	0.3	0
93	Growth of few layered molybdenum disulphide. AIP Conference Proceedings, 2019, , .	0.3	0
94	Efficient blue-violet emitting bisbenzimidazole based molecule. AIP Conference Proceedings, 2020, , .	0.3	0
95	Effect of TiO ₂ scatterer on photovoltaic performance of quantum dot solar cell. AIP Conference Proceedings, 2021, , .	0.3	0
96	Charge transport properties of single layer imidazole-based devices. AIP Conference Proceedings, 2021, , .	0.3	0
97	Determination of van der Waals C ₃ coefficients for titanium carbide MXenes with alkali atoms. AIP Conference Proceedings, 2021, , .	0.3	0
98	Ambient-air fabrication with inorganic/polymer hole transport layer: Towards low cost perovskite solar cells. AIP Conference Proceedings, 2020, , .	0.3	0
99	Electrospun 1D TiO ₂ nanorods for enhancing the performance of dye sensitized solar cells. AIP Conference Proceedings, 2020, , .	0.3	0
100	Low temperature processable crystalline WO ₃ Langmuir-Blodgett ultra-thin film as blocking layer in solar cells application. AIP Conference Proceedings, 2020, , .	0.3	0