Ravi Kant Tripathi

List of Publications by Year
in descending order

22	466	567281 15	677142 22
papers	citations	h-index	g-index

22	22	22	265
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior nano-mechanical properties of reduced graphene oxide reinforced polyurethane composites. RSC Advances, 2015, 5, 16921-16930.	3.6	56
2	ZnS Nanosheets in a Polyaniline Matrix as Metallopolymer Nanohybrids for Flexible and Biofriendly Photodetectors. ACS Applied Nano Materials, 2022, 5, 4860-4874.	5.0	34
3	Transient photodetection studies on 2D ZnO nanostructures prepared by simple organic-solvent assisted route. Sensors and Actuators A: Physical, 2021, 321, 112600.	4.1	33
4	2-D self-healable polyaniline-polypyrrole nanoflakes based triboelectric nanogenerator for self-powered solar light photo detector with DFT study. Journal of Colloid and Interface Science, 2021, 600, 572-585.	9.4	33
5	The functionalization of polyacrylamide with MoS₂ nanoflakes for use in transient photodetectors. Sustainable Energy and Fuels, 2021, 5, 1394-1405.	4.9	32
6	Design and development of flexible humidity sensor for baby diaper alarm: Experimental and theoretical study. Sensors and Actuators B: Chemical, 2022, 350, 130818.	7.8	30
7	The beauty inhabited inside the modified Graphene for moisture detection at different frequencies. Journal of Materials Science: Materials in Electronics, 2020, 31, 10836-10845.	2.2	29
8	State of the Art Metallopolymer Based Functional Nanomaterial for Photodetector and Solar Cell Application. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 2807-2826.	3.7	26
9	Ultrafast responsive humidity sensor based on roasted gram derived carbon quantum dots: Experimental and theoretical study. Sensors and Actuators B: Chemical, 2021, 329, 129116.	7.8	25
10	Improved sensing behaviour of self-healable solar light photodetector based on core-shell type Ni0.2Zn0.8Fe2O4@ poly (Urea-Formaldehyde). Solar Energy, 2019, 188, 278-290.	6.1	23
11	Healable, highly sensitive LPG sensor based on Ni0.4Zn0.6Fe2O4 nanohybrid grown by autocombustion process. Sensors and Actuators B: Chemical, 2021, 327, 128840.	7.8	23
12	Flexible, environmentally-acceptable and long-durable-energy-efficient novel WS₂â€“polyacrylamide MOFs for high-performance photodetectors. Materials Advances, 2022, 3, 3994-4005.	5.4	21
13	Easy synthesis of organicâ€“inorganic hybrid nanomaterials: study of DC conduction mechanism for light dependent resistors. RSC Advances, 2016, 6, 31540-31550.	3.6	19
14	Study of variable range hopping conduction mechanism in nanocrystalline carbon thin films deposited by modified anodic jet carbon arc technique: application to light-dependent resistors. Journal of Materials Science: Materials in Electronics, 2021, 32, 2535-2546.	2.2	17
15	The synthesis of a Cu_{0.8}Zn_{0.2}Sb₂â€“polyacrylamide nanocomposite by frontal polymerization for moisture and photodetection performance. Materials Advances, 2020, 1, 2804-2817.	5.4	16
16	Organic-inorganic hybrid nanomaterials for advanced light dependent resistors. Materials Chemistry and Physics, 2017, 202, 169-176.	4.0	15
17	Improved nanomechanical properties of hydrogenated tetrahedral amorphous carbon films measured with ultra low indentation load. Materials Express, 2015, 5, 410-418.	0.5	13
18	Study on nanocrystalline silicon thin films grown by the filtered cathodic vacuum arc technique using boron doped solid silicon for fast photo detectors. Journal of the Taiwan Institute of Chemical Engineers, 2018, 86, 185-191.	5.3	10

#	Article	IF	Citations
19	Organicâ€“inorganic hybrid cathodes: facile synthesis of polypyrrole/zinc oxide nanofibers for low turn-on electron field emitters. RSC Advances, 2016, 6, 46372-46379.	3.6	5
20	Structural and nanomechanical properties of nanocrystalline carbon thin films for photodetection. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 031501.	2.1	3
21	Improved growth of nano tin ferrites with their decoration on carbon foam for wastewater treatment. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100546.	2.9	2
22	Investigation on Metal Nanoparticles: Nickel Oxide, Cuprous Oxide and Tin Ferrite with Their Humidity Sensing at Room Temperature. Nano LIFE, 2022, 12, .	0.9	1