Jaspal Singh

List of Publications by Year
in descending order

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39 papers	1,500 citations	304743 22 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	1419 citing authors

#	Article	IF	Citations
1	Light-emitting Ti₂N (MXene) quantum dots: synthesis, characterization and theoretical calculations. Journal of Materials Chemistry C, 2022, 10, 6508-6514.	5.5	10
2	Photocatalytic Î²-In2S3 nanoflowers synthesized by thermal assembly of In2S3 nanosheets. Journal of Alloys and Compounds, 2022, 911, 165099.	5.5	9
3	Low Temperature Step Annealing Synthesis of the Ti2AlN MAX Phase to Fabricate MXene Quantum Dots. Applied Sciences (Switzerland), 2022, 12, 4154.	2.5	5
4	Tunable optical properties of Au nanoparticles encapsulated TiO2 spheres and their improved sunlight mediated photocatalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 126011.	4.7	20
5	Sunlight mediated enhanced photocatalytic activity of TiO2 nanoparticles functionalized CuO-Cu2O nanorods for removal of methylene blue and oxytetracycline hydrochloride. Journal of Colloid and Interface Science, 2021, 590, 60-71.	9.4	83
6	Enhanced sunlight driven photocatalytic activity of In2S3 nanosheets functionalized MoS2 nanoflowers heterostructures. Scientific Reports, 2021, 11, 15352.	3.3	35
7	Morphology dependent effective charge separation process in nanostructured MoS2 thin films for enhanced photodegradation behavior. Journal Physics D: Applied Physics, 2021, 54, 375103.	2.8	8
8	Efficient charge separation in Ag nanoparticles functionalized ZnO nanoflakes/CuO nanoflowers hybrids for improved photocatalytic and SERS activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127005.	4.7	30
9	Improved SERS sensing on biosynthetically grown self-cleaning plasmonic ZnO nano-leaves. New Journal of Chemistry, 2021, 45, 20895-20903.	2.8	1
10	Fabrication of nanostructured In2S3 thin film with broad optical absorption for improved sunlight mediated photocatalysis application. Optical Materials, 2021, 122, 111748.	3.6	10
11	Thermal annealing induced cave in and formation of nanoscale pits in Agâ€“TiO2 plasmonic nanocomposite thin film. Ceramics International, 2020, 46, 3275-3281.	4.8	7
12	Facile synthesis, structural, optical and photocatalytic properties of mesoporous Ag2O/TiO2 nanoheterojunctions. Journal of Physics and Chemistry of Solids, 2020, 138, 109305.	4.0	10
13	Sunlight driven photocatalysis and non-enzymatic glucose sensing performance of cubic structured CuO thin films. Applied Surface Science, 2020, 530, 147258.	6.1	38
14	Synthesis of 3D-MoS2 nanoflowers with tunable surface area for the application in photocatalysis and SERS based sensing. Journal of Alloys and Compounds, 2020, 849, 156502.	5.5	86
15	Two-dimensional MoS₂ nanosheet-modified oxygen defect-rich TiO₂ nanoparticles for light emission and photocatalytic applications. New Journal of Chemistry, 2020, 44, 14936-14946.	2.8	32
16	Cost-effective scalable synthesis of few layers MoS2 based thin film for sunlight enforced photocatalytic activity. Optical Materials, 2020, 110, 110506.	3.6	11
17	Mesoporous dark brown TiO2 spheres for pollutant removal and energy storage applications. Applied Surface Science, 2020, 527, 146796.	6.1	40
18	Fabrication of ZnOâ€“TiO2 nanohybrids for rapid sunlight driven photodegradation of textile dyes and antibiotic residue molecules. Optical Materials, 2020, 107, 110138.	3.6	92

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19	Fabrication of hydroxyl group-enriched mixed-phase TiO2 nanoflowers consisting of nanoflakes for efficient photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 12546-12560.	2.2	13
20	Enhancement in the photodegradation properties of ZnO nanostructures with structural transformation. AIP Conference Proceedings, 2020, , .	0.4	0
21	Controlled synthesis of CuO decorated defect enriched ZnO nanoflakes for improved sunlight-induced photocatalytic degradation of organic pollutants. Applied Surface Science, 2020, 521, 146420.	6.1	86
22	Bifunctional Auâ€“TiO2 thin films with enhanced photocatalytic activity and SERS based multiplexed detection of organic pollutant. Journal of Materials Science: Materials in Electronics, 2019, 30, 16478-16493.	2.2	41
23	Facile synthesis, structural and optical properties of Au-TiO2 plasmonic nanohybrids for photocatalytic applications. Journal of Physics and Chemistry of Solids, 2019, 135, 109100.	4.0	42
24	Evidence of oxygen defects mediated enhanced photocatalytic and antibacterial performance of ZnO nanorods. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110541.	5.0	80
25	Thermal annealing induced strong photoluminescence enhancement in Ag-TiO2 plasmonic nanocomposite thin films. Journal of Alloys and Compounds, 2019, 786, 750-757.	5.5	20
26	Thermal annealing induced evolution of morphological, structural, optical and photocatalytic properties of Ag-TiO2 nanocomposite thin films. Journal of Physics and Chemistry of Solids, 2019, 129, 317-323.	4.0	18
27	Catalytic reduction of 4-nitrophenol and photocatalytic degradation of organic pollutants in water by copper oxide nanosheets. Optical Materials, 2019, 93, 58-69.	3.6	54
28	Facile synthesis, structural, optical and photocatalytic properties of anatase/ rutile mixed phase TiO2 ball-like sub-micron structures. Optik, 2019, 188, 270-276.	2.9	12
29	Synthesis of Agâ€“TiO2 hybrid nanoparticles with enhanced photocatalytic activity by a facile wet chemical method. Nano Structures Nano Objects, 2019, 18, 100266.	3.5	43
30	Photocatalytic and catalytic removal of toxic pollutants from water using CuO nanosheets. Journal of Materials Science: Materials in Electronics, 2019, 30, 6088-6099.	2.2	19
31	Ion beam engineering of morphological, structural, optical and photocatalytic properties of Ag-TiO2-PVA nanocomposite thin film. Ceramics International, 2019, 45, 7976-7983.	4.8	27
32	Facile synthesis of ZnO nanoplates and nanoparticle aggregates for highly efficient photocatalytic degradation of organic dyes. Journal of Physics and Chemistry of Solids, 2018, 121, 186-195.	4.0	69
33	Facile wet chemical synthesis of ZnO nanosheets: Effects of counter ions on the morphological, structural, optical and photocatalytic properties. Ceramics International, 2018, 44, 23094-23101.	4.8	40
34	Nanostructured TiO2 thin films prepared by RF magnetron sputtering for photocatalytic applications. Applied Surface Science, 2017, 422, 953-961.	6.1	123
35	Atom beam sputtered Ag-TiO 2 plasmonic nanocomposite thin films for photocatalytic applications. Applied Surface Science, 2017, 411, 347-354.	6.1	82
36	Structural, Optical and Plasmonic Properties of Ag-TiO2 Hybrid Plasmonic Nanostructures with Enhanced Photocatalytic Activity. Plasmonics, 2017, 12, 877-888.	3.4	65

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37	Synthesis of nanostructured TiO2 thin films with highly enhanced photocatalytic activity by atom beam sputtering. Advanced Materials Letters, 2017, 8, 107-113.	0.6	15
38	Thermal Evolution Of Structural, Optical And Photocatalytic Properties Of TiO2 Nanostructures. Advanced Materials Letters, 2015, 6, 924-929.	0.6	34
39	Structural, optical and photocatalytic properties of flower-like ZnO nanostructures prepared by a facile wet chemical method. Beilstein Journal of Nanotechnology, 2013, 4, 763-770.	2.8	88