

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	Nanostructured TiO ₂ thin films prepared by RF magnetron sputtering for photocatalytic applications. Applied Surface Science, 2017, 422, 953-961.	6.1	123
2	Fabrication of ZnO@TiO ₂ nanohybrids for rapid sunlight driven photodegradation of textile dyes and antibiotic residue molecules. Optical Materials, 2020, 107, 110138.	3.6	92
3	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
4	Synthesis of 3D-MoS ₂ 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
5	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
6	Sunlight mediated enhanced photocatalytic activity of TiO ₂ nanoparticles functionalized CuO-Cu ₂ O nanorods for removal of methylene blue and oxytetracycline hydrochloride. Journal of Colloid and Interface Science, 2021, 590, 60-71.	9.4	83
7	Atom beam sputtered Ag-TiO ₂ plasmonic nanocomposite thin films for photocatalytic applications. Applied Surface Science, 2017, 411, 347-354.	6.1	82
8	Evidence of oxygen defects mediated enhanced photocatalytic and antibacterial performance of ZnO nanorods. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110541.	5.0	80
9	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
10	Structural, Optical and Plasmonic Properties of Ag-TiO ₂ Hybrid Plasmonic Nanostructures with Enhanced Photocatalytic Activity. Plasmonics, 2017, 12, 877-888.	3.4	65
11	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
12	Synthesis of Ag@TiO ₂ hybrid nanoparticles with enhanced photocatalytic activity by a facile wet chemical method. Nano Structures Nano Objects, 2019, 18, 100266.	3.5	43
13	Facile synthesis, structural and optical properties of Au-TiO ₂ plasmonic nanohybrids for photocatalytic applications. Journal of Physics and Chemistry of Solids, 2019, 135, 109100.	4.0	42
14	Bifunctional Au@TiO ₂ 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
15	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
16	Mesoporous dark brown TiO ₂ spheres for pollutant removal and energy storage applications. Applied Surface Science, 2020, 527, 146796.	6.1	40
17	Sunlight driven photocatalysis and non-enzymatic glucose sensing performance of cubic structured CuO thin films. Applied Surface Science, 2020, 530, 147258.	6.1	38
18	Enhanced sunlight driven photocatalytic activity of In ₂ S ₃ nanosheets functionalized MoS ₂ nanoflowers heterostructures. Scientific Reports, 2021, 11, 15352.	3.3	35

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19	Thermal Evolution Of Structural, Optical And Photocatalytic Properties Of TiO ₂ Nanostructures. <i>Advanced Materials Letters</i> , 2015, 6, 924-929.	0.6	34
20	Two-dimensional MoS ₂ nanosheet-modified oxygen defect-rich TiO ₂ nanoparticles for light emission and photocatalytic applications. <i>New Journal of Chemistry</i> , 2020, 44, 14936-14946.	2.8	32
21	Efficient charge separation in Ag nanoparticles functionalized ZnO nanoflakes/CuO nanoflowers hybrids for improved photocatalytic and SERS activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127005.	4.7	30
22	Ion beam engineering of morphological, structural, optical and photocatalytic properties of Ag-TiO ₂ -PVA nanocomposite thin film. <i>Ceramics International</i> , 2019, 45, 7976-7983.	4.8	27
23	Thermal annealing induced strong photoluminescence enhancement in Ag-TiO ₂ plasmonic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2019, 786, 750-757.	5.5	20
24	Tunable optical properties of Au nanoparticles encapsulated TiO ₂ spheres and their improved sunlight mediated photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 126011.	4.7	20
25	Photocatalytic and catalytic removal of toxic pollutants from water using CuO nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6088-6099.	2.2	19
26	Thermal annealing induced evolution of morphological, structural, optical and photocatalytic properties of Ag-TiO ₂ nanocomposite thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 129, 317-323.	4.0	18
27	Synthesis of nanostructured TiO ₂ thin films with highly enhanced photocatalytic activity by atom beam sputtering. <i>Advanced Materials Letters</i> , 2017, 8, 107-113.	0.6	15
28	Fabrication of hydroxyl group-enriched mixed-phase TiO ₂ nanoflowers consisting of nanoflakes for efficient photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12546-12560.	2.2	13
29	Facile synthesis, structural, optical and photocatalytic properties of anatase/ rutile mixed phase TiO ₂ ball-like sub-micron structures. <i>Optik</i> , 2019, 188, 270-276.	2.9	12
30	Cost-effective scalable synthesis of few layers MoS ₂ based thin film for sunlight enforced photocatalytic activity. <i>Optical Materials</i> , 2020, 110, 110506.	3.6	11
31	Facile synthesis, structural, optical and photocatalytic properties of mesoporous Ag ₂ O/TiO ₂ nanoheterojunctions. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 138, 109305.	4.0	10
32	Fabrication of nanostructured In ₂ S ₃ thin film with broad optical absorption for improved sunlight mediated photocatalysis application. <i>Optical Materials</i> , 2021, 122, 111748.	3.6	10
33	Light-emitting Ti ₂ N (MXene) quantum dots: synthesis, characterization and theoretical calculations. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6508-6514.	5.5	10
34	Photocatalytic ¹²⁵ In ₂ S ₃ nanoflowers synthesized by thermal assembly of In ₂ S ₃ nanosheets. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165099.	5.5	9
35	Morphology dependent effective charge separation process in nanostructured MoS ₂ thin films for enhanced photodegradation behavior. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 375103.	2.8	8
36	Thermal annealing induced cave in and formation of nanoscale pits in Ag@TiO ₂ plasmonic nanocomposite thin film. <i>Ceramics International</i> , 2020, 46, 3275-3281.	4.8	7

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37	Low Temperature Step Annealing Synthesis of the Ti ₂ AlN MAX Phase to Fabricate MXene Quantum Dots. Applied Sciences (Switzerland), 2022, 12, 4154.	2.5	5
38	Improved SERS sensing on biosynthetically grown self-cleaning plasmonic ZnO nano-leaves. New Journal of Chemistry, 2021, 45, 20895-20903.	2.8	1
39	Enhancement in the photodegradation properties of ZnO nanostructures with structural transformation. AIP Conference Proceedings, 2020, , .	0.4	0