

Sadaf Bashir Khan

List of Publications by Citations

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43
papers

606
citations

15
h-index

23
g-index

45
ext. papers

859
ext. citations

5.2
avg, IF

4.62
L-index

#	Paper	IF	Citations
43	Band-Gap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO ₃ Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 31-40	3.8	73
42	Morphological influence of TiO ₂ nanostructures (nanozigzag, nanohelics and nanorod) on photocatalytic degradation of organic dyes. <i>Applied Surface Science</i> , 2017 , 400, 184-193	6.7	71
41	Visible light assisted photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid using a BiVO ₄ /FeVO ₄ heterojunction composite.. <i>RSC Advances</i> , 2018 , 8, 23489-23498	3.7	56
40	Facile synthesis of Zinc vanadate Zn ₃ (VO ₄) ₂ for highly efficient visible light assisted photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 281-289	5.7	33
39	Hydrothermal fabrication of monoclinic bismuth vanadate (m-BiVO ₄) nanoparticles for photocatalytic degradation of toxic organic dyes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 242, 83-89	3.1	30
38	Preparation and characterization of Vanadium pentoxide (V ₂ O ₅) for photocatalytic degradation of monoazo and diazo dyes. <i>Surfaces and Interfaces</i> , 2020 , 19, 100502	4.1	26
37	Influence of Refractive Index on Antireflectance Efficiency of Thin Films. <i>Materials</i> , 2019 , 12,	3.5	25
36	Antireflective coatings with enhanced adhesion strength. <i>Nanoscale</i> , 2017 , 9, 11047-11054	7.7	21
35	Influence of Zn Doping on Ni-Based Nanoferrites; (Ni ZnFeO). <i>Nanomaterials</i> , 2019 , 9,	5.4	19
34	Optimization of process parameters for the synthesis of silver nanoparticles from Piper betle leaf aqueous extract, and evaluation of their antiphytofungal activity. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 27221-27233	5.1	19
33	Synthesis of Zn(VO)/BiVO ₄ heterojunction composite for the photocatalytic degradation of methylene blue organic dye and electrochemical detection of HO ₂ .. <i>RSC Advances</i> , 2018 , 8, 35403-35412	3.7	18
32	AlO Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36327-36337	9.5	17
31	Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO ₄ /rGO) composite and evaluation of its photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2020 , 46, 1201-1215	2.8	17
30	Morphological effects on the photocatalytic performance of FeVO ₄ nanocomposite. <i>Nano Structures Nano Objects</i> , 2020 , 22, 100431	5.6	15
29	Mechanically robust antireflective coatings. <i>Nano Research</i> , 2018 , 11, 1699-1713	10	15
28	Recent progress in hybrid perovskite solar cells through scanning tunneling microscopy and spectroscopy. <i>Nanoscale</i> , 2020 , 12, 15970-15992	7.7	12
27	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. <i>Advanced Energy Materials</i> , 2101085	21.8	11

26	Fast Surface Charge Transfer with Reduced Band Gap Energy of FeVO ₄ /Graphene Nanocomposite and Study of Its Electrochemical Property and Enhanced Photocatalytic Activity. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 6659-6667	2.5	10
25	Supramolecular Chemistry: Host-Guest Molecular Complexes. <i>Molecules</i> , 2021 , 26,	4.8	10
24	Single component: Bilayer TiO ₂ as a durable antireflective coating. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155137	5.7	10
23	HfO ₂ Nanorod Array as High-Performance and High-Temperature Antireflective Coating. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600892	4.6	9
22	Bilayer SiO ₂ Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700942	3.5	9
21	Facile synthesis of Zn ₃ (VO ₄) ₂ /FeVO ₄ heterojunction and study on its photocatalytic and electrochemical properties. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 421-433	3.3	9
20	Nanoscale tailoring of supramolecular crystals via an oriented external electric field. <i>Nanoscale</i> , 2020 , 12, 15072-15080	7.7	8
19	Generation of strong oxidizing radicals from plate-like morphology of BiVO ₄ for the fast degradation of crystal violet dye under visible light. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	8
18	Annealing influence on optical performance of HfO ₂ thin films. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152552	5.7	8
17	Electrical-Pulse-Induced Mixture and Separation in Surface Supramolecular Hybrids: STM Experiments and Theoretical Approaches. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 815-821	3.8	7
16	Photocatalytic performance of ferric vanadate (FeVO ₄) nanoparticles synthesized by hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , 2021 , 129, 105785	4.3	7
15	Construction of 1T-MoS quantum dots-interspersed (Bi Fe)VO heterostructures for electron transport and photocatalytic properties.. <i>RSC Advances</i> , 2021 , 11, 13105-13118	3.7	5
14	Synthesis of mono layer graphene oxide from sonicated graphite flakes and their Hall effect measurements. <i>Materials Science-Poland</i> , 2014 , 32, 292-296	0.6	4
13	A Mini Review: Antireflective Coatings Processing Techniques, Applications and Future Perspective. <i>Research & Reviews Journal of Material Sciences</i> , 2017 , 05,		4
12	Omnidirectional SiO ₂ AR Coatings. <i>Coatings</i> , 2018 , 8, 210	2.9	3
11	Facile synthesis of Se/BiVO ₄ heterojunction composite and evaluation of synergetic reaction mechanism for efficient photocatalytic staining of organic dye pollutants in wastewater under visible light. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 19599-19612	2.1	3
10	Monolayer and Bilayer Formation of Molecular 2D Networks Assembled at the Liquid/Solid Interfaces by Solution-Based Drop-Cast Method.. <i>Molecules</i> , 2021 , 26,	4.8	3
9	Hydrophobic surface modified HfO antireflective coatings. <i>Nanotechnology</i> , 2019 , 30, 40LT01	3.4	2

8	Synthesis of novel visible light assisted Pt doped zinc vanadate (Pt/Zn ₄ V ₂ O ₉) for enhanced photocatalytic properties. <i>Chemical Physics</i> , 2020 , 539, 110980	2.3	2
7	Bismuth vanadate/MXene (BiVO ₄ /TiC) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 35911-35923	5.1	2
6	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures.. <i>Chemosphere</i> , 2022 , 134750	8.4	2
5	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv. Energy Mater. 42/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170166	21.8	1
4	Nanomaterials significance; contaminants degradation for environmental applications. <i>Nano Express</i> , 2021 , 2, 022002	2	1
3	Dynamics of Supramolecular Crystal Growth at the Liquid/Solid Interface Studied via Scanning Tunneling Microscope and the Avrami Equation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10451-10457 ^{3.8}		1
2	Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. <i>Journal of Cluster Science</i> , 1	3	0
1	Scanning Tunneling Microscope and Spectroscopy on Organic/Inorganic Material Heterojunction 2021 , 71-100		