Sadaf Bashir Khan

List of Publications by Year in Descending Order

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	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures.. *Chemosphere*, **2022**, 134750	8.4	2
42	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv. Energy Mater. 42/2021). *Advanced Energy Materials*, **2021**, 11, 2170166	21.8	1
41	Bismuth vanadate/MXene (BiVO/TiC) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity. *Environmental Science and Pollution Research*, **2021**, 28, 35911-35923	5.1	2
40	Nanomaterials significance; contaminants degradation for environmental applications. *Nano Express*, **2021**, 2, 022002	2	1
39	Dynamics of Supramolecular Crystal Growth at the Liquid Solid Interface Studied via Scanning Tunneling Microscope and the Avrami Equation. *Journal of Physical Chemistry C*, **2021**, 125, 10451-10457	3.8	1
38	Supramolecular Chemistry: Host-Guest Molecular Complexes. *Molecules*, **2021**, 26,	4.8	10
37	Photocatalytic performance of ferric vanadate (FeVO4) nanoparticles synthesized by hydrothermal method. *Materials Science in Semiconductor Processing*, **2021**, 129, 105785	4.3	7
36	Construction of 1T-MoS quantum dots-interspersed (Bi Fe)VO heterostructures for electron transport and photocatalytic properties.. *RSC Advances*, **2021**, 11, 13105-13118	3.7	5
35	Scanning Tunneling Microscope and Spectroscope on Organic Inorganic Material Heterojunction **2021**, 71-100		
34	Monolayer and Bilayer Formation of Molecular 2D Networks Assembled at the Liquid/Solid Interfaces by Solution-Based Drop-Cast Method.. *Molecules*, **2021**, 26,	4.8	3
33	Nanoscale tailoring of supramolecular crystals via an oriented external electric field. *Nanoscale*, **2020**, 12, 15072-15080	7.7	8
32	Morphological effects on the photocatalytic performance of FeVO4 nanocomposite. *Nano Structures Nano Objects*, **2020**, 22, 100431	5.6	15
31	Recent progress in hybrid perovskite solar cells through scanning tunneling microscopy and spectroscopy. *Nanoscale*, **2020**, 12, 15970-15992	7.7	12
30	Preparation and characterization of Vanadium pentoxide (V2O5) for photocatalytic degradation of monoazo and diazo dyes. *Surfaces and Interfaces*, **2020**, 19, 100502	4.1	26
29	Generation of strong oxidizing radicals from plate-like morphology of BiVO4 for the fast degradation of crystal violet dye under visible light. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	8
28	Facile synthesis of Zn3(VO4)2/FeVO4 heterojunction and study on its photocatalytic and electrochemical properties. *Applied Nanoscience (Switzerland)*, **2020**, 10, 421-433	3.3	9
27	Annealing influence on optical performance of HfO2 thin films. *Journal of Alloys and Compounds*, **2020**, 816, 152552	5.7	8

26	Electrical-Pulse-Induced Mixture and Separation in Surface Supramolecular Hybrids: STM Experiments and Theoretical Approaches. *Journal of Physical Chemistry C*, **2020**, 124, 815-821	3.8	7
25	Synthesis of novel visible light assisted Pt doped zinc vanadate (Pt/Zn4V2O9) for enhanced photocatalytic properties. *Chemical Physics*, **2020**, 539, 110980	2.3	2
24	Facile synthesis of Se/BiVO4 heterojunction composite and evaluation of synergetic reaction mechanism for efficient photocatalytic staining of organic dye pollutants in wastewater under visible light. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 19599-19612	2.1	3
23	Optimization of process parameters for the synthesis of silver nanoparticles from Piper betle leaf aqueous extract, and evaluation of their antiphytofungal activity. *Environmental Science and Pollution Research*, **2020**, 27, 27221-27233	5.1	19
22	Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO4/rGO) composite and evaluation of its photocatalytic activity. *Research on Chemical Intermediates*, **2020**, 46, 1201-1215	2.8	17
21	Single component: Bilayer TiO2 as a durable antireflective coating. *Journal of Alloys and Compounds* , **2020**, 834, 155137	5.7	10
20	Fast Surface Charge Transfer with Reduced Band Gap Energy of FeVO4/Graphene Nanocomposite and Study of Its Electrochemical Property and Enhanced Photocatalytic Activity. *Arabian Journal for Science and Engineering*, **2019**, 44, 6659-6667	2.5	10
19	Influence of Refractive Index on Antireflectance Efficiency of Thin Films. *Materials*, **2019**, 12,	3.5	25
18	Hydrothermal fabrication of monoclinic bismuth vanadate (m-BiVO4) nanoparticles for photocatalytic degradation of toxic organic dyes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2019**, 242, 83-89	3.1	30
17	Hydrophobic surface modified HfO antireflective coatings. *Nanotechnology*, **2019**, 30, 40LT01	3.4	2
16	Influence of Zn Doping on Ni-Based Nanoferrites; (Ni ZnFeO). *Nanomaterials*, **2019**, 9,	5.4	19
15	Facile synthesis of Zinc vanadate Zn3(VO4)2 for highly efficient visible light assisted photocatalytic activity. *Journal of Alloys and Compounds*, **2019**, 775, 281-289	5.7	33
14	Bilayer SiO2 Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. *Advanced Engineering Materials*, **2018**, 20, 1700942	3.5	9
13	Mechanically robust antireflective coatings. *Nano Research*, **2018**, 11, 1699-1713	10	15
12	Omnidirectional SiO2 AR Coatings. *Coatings*, **2018**, 8, 210	2.9	3
11	Synthesis of Zn(VO)/BiVO heterojunction composite for the photocatalytic degradation of methylene blue organic dye and electrochemical detection of HO.. *RSC Advances*, **2018**, 8, 35403-35412	3.7	18
10	Visible light assisted photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid using a BiVO/FeVO heterojunction composite.. *RSC Advances*, **2018**, 8, 23489-23498	3.7	56
9	HfO2 Nanorod Array as High-Performance and High-Temperature Antireflective Coating. *Advanced Materials Interfaces*, **2017**, 4, 1600892	4.6	9

8	Antireflective coatings with enhanced adhesion strength. *Nanoscale*, **2017**, 9, 11047-11054	7.7	21
7	Morphological influence of TiO2 nanostructures (nanozigzag, nanohelics and nanorod) on photocatalytic degradation of organic dyes. *Applied Surface Science*, **2017**, 400, 184-193	6.7	71
6	AlO Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 36327-36337	9.5	17
5	Band-Gap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO3 Nanoparticles. *Journal of the American Ceramic Society*, **2017**, 100, 31-40	3.8	73
4	A Mini Review: Antireflective Coatings Processing Techniques, Applications and Future Perspective. *Research & Reviews Journal of Material Sciences*, **2017**, 05,		4
3	Synthesis of mono layer graphene oxide from sonicated graphite flakes and their Hall effect measurements. *Materials Science-Poland*, **2014**, 32, 292-296	0.6	4
2	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. *Advanced Energy Materials*,2101085	21.8	11
1	Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. *Journal of Cluster Science*,1	3	0