

# Sadaf Bashir Khan

## List of Publications by Year in descending order

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45  
papers

1,172  
citations

361045

20  
h-index

395343

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Band Gap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO <sub>3</sub> Nanoparticles. Journal of the American Ceramic Society, 2017, 100, 31-40.	1.9	117
2	Morphological influence of TiO <sub>2</sub> nanostructures (nanozigzag, nanohelics and nanorod) on photocatalytic degradation of organic dyes. Applied Surface Science, 2017, 400, 184-193.	3.1	95
3	Visible light assisted photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid using a BiVO <sub>4</sub> /FeVO <sub>4</sub> heterojunction composite. RSC Advances, 2018, 8, 23489-23498.	1.7	86
4	Hydrothermal fabrication of monoclinic bismuth vanadate (m-BiVO <sub>4</sub> ) nanoparticles for photocatalytic degradation of toxic organic dyes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 242, 83-89.	1.7	61
5	Preparation and characterization of Vanadium pentoxide (V <sub>2</sub> O <sub>5</sub> ) for photocatalytic degradation of monoazo and diazo dyes. Surfaces and Interfaces, 2020, 19, 100502.	1.5	60
6	Facile synthesis of Zinc vanadate Zn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> for highly efficient visible light assisted photocatalytic activity. Journal of Alloys and Compounds, 2019, 775, 281-289.	2.8	52
7	Influence of Zn <sup>+2</sup> Doping on Ni-Based Nanoferrites; (Ni <sup>1-x</sup> Zn <sup>x</sup> Fe <sub>2</sub> O <sub>4</sub> ). Nanomaterials, 2019, 9, 1024.	1.9	50
8	Optimization of process parameters for the synthesis of silver nanoparticles from Piper betle leaf aqueous extract, and evaluation of their antiphytofungual activity. Environmental Science and Pollution Research, 2020, 27, 27221-27233.	2.7	40
9	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. Advanced Energy Materials, 2021, 11, .	10.2	40
10	Supramolecular Chemistry: Host-Guest Molecular Complexes. Molecules, 2021, 26, 3995.	1.7	38
11	Influence of Refractive Index on Antireflectance Efficiency of Thin Films. Materials, 2019, 12, 1483.	1.3	36
12	Synthesis of Zn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> /BiVO <sub>4</sub> heterojunction composite for the photocatalytic degradation of methylene blue organic dye and electrochemical detection of H <sub>2</sub> O <sub>2</sub> . RSC Advances, 2018, 8, 35403-35412.	1.7	34
13	Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO <sub>4</sub> /rGO) composite and evaluation of its photocatalytic activity. Research on Chemical Intermediates, 2020, 46, 1201-1215.	1.3	34
14	Morphological effects on the photocatalytic performance of FeVO <sub>4</sub> nanocomposite. Nano Structures Nano Objects, 2020, 22, 100431.	1.9	31
15	Antireflective coatings with enhanced adhesion strength. Nanoscale, 2017, 9, 11047-11054.	2.8	28
16	Photocatalytic performance of ferric vanadate (FeVO <sub>4</sub> ) nanoparticles synthesized by hydrothermal method. Materials Science in Semiconductor Processing, 2021, 129, 105785.	1.9	28
17	Al <sub>2</sub> O <sub>3</sub> Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. ACS Applied Materials & Interfaces, 2017, 9, 36327-36337.	4.0	23
18	Annealing influence on optical performance of HfO <sub>2</sub> thin films. Journal of Alloys and Compounds, 2020, 816, 152552.	2.8	23

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19	Bismuth vanadate/MXene (BiVO <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> ) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity. Environmental Science and Pollution Research, 2021, 28, 35911-35923.	2.7	23
20	Mechanically robust antireflective coatings. Nano Research, 2018, 11, 1699-1713.	5.8	22
21	Fast Surface Charge Transfer with Reduced Band Gap Energy of FeVO <sub>4</sub> /Graphene Nanocomposite and Study of Its Electrochemical Property and Enhanced Photocatalytic Activity. Arabian Journal for Science and Engineering, 2019, 44, 6659-6667.	1.7	21
22	Facile synthesis of Zn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> /FeVO <sub>4</sub> heterojunction and study on its photocatalytic and electrochemical properties. Applied Nanoscience (Switzerland), 2020, 10, 421-433.	1.6	20
23	Construction of 1T-MoS <sub>2</sub> quantum dots-interspersed (Bi <sub>1-x</sub> Fe <sub>x</sub> )VO <sub>4</sub> heterostructures for electron transport and photocatalytic properties. RSC Advances, 2021, 11, 13105-13118.	1.7	20
24	Recent progress in hybrid perovskite solar cells through scanning tunneling microscopy and spectroscopy. Nanoscale, 2020, 12, 15970-15992.	2.8	19
25	Generation of strong oxidizing radicals from plate-like morphology of BiVO <sub>4</sub> for the fast degradation of crystal violet dye under visible light. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	19
26	Single component: Bilayer TiO <sub>2</sub> as a durable antireflective coating. Journal of Alloys and Compounds, 2020, 834, 155137.	2.8	17
27	HfO <sub>2</sub> Nanorod Array as High-Performance and High-Temperature Antireflective Coating. Advanced Materials Interfaces, 2017, 4, 1600892.	1.9	16
28	Nanoscale tailoring of supramolecular crystals via an oriented external electric field. Nanoscale, 2020, 12, 15072-15080.	2.8	15
29	Bilayer SiO <sub>2</sub> Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. Advanced Engineering Materials, 2018, 20, 1700942.	1.6	14
30	Synthesis of novel visible light assisted Pt doped zinc vanadate (Pt/Zn <sub>4</sub> V <sub>2</sub> O <sub>9</sub> ) for enhanced photocatalytic properties. Chemical Physics, 2020, 539, 110980.	0.9	13
31	Facile synthesis of Se/BiVO <sub>4</sub> 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.	1.1	13
32	Electrical-Pulse-Induced Mixture and Separation in Surface Supramolecular Hybrids: STM Experiments and Theoretical Approaches. Journal of Physical Chemistry C, 2020, 124, 815-821.	1.5	9
33	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.	1.5	8
34	A Mini Review: Antireflective Coatings Processing Techniques, Applications and Future Perspective. Research & Reviews Journal of Material Sciences, 2017, 05, .	0.1	8
35	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures. Chemosphere, 2022, 302, 134750.	4.2	7
36	Monolayer and Bilayer Formation of Molecular 2D Networks Assembled at the Liquid/Solid Interfaces by Solution-Based Drop-Cast Method. Molecules, 2021, 26, 7707.	1.7	6

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37	Synthesis of mono layer graphene oxide from sonicated graphite flakes and their Hall effect measurements. <i>Materials Science-Poland</i> , 2014, 32, 292-296.	0.4	5
38	Omnidirectional SiO <sub>2</sub> AR Coatings. <i>Coatings</i> , 2018, 8, 210.	1.2	5
39	Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. <i>Journal of Cluster Science</i> , 2022, 33, 773-783.	1.7	5
40	Platinum doped bismuth vanadate (Pt/BiVO <sub>4</sub> ) for enhanced photocatalytic pollutant degradation using visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15116-15131.	1.1	5
41	Hydrophobic surface modified HfO <sub>2</sub> antireflective coatings. <i>Nanotechnology</i> , 2019, 30, 40LT01.	1.3	2
42	Nanomaterials significance; contaminants degradation for environmental applications. <i>Nano Express</i> , 2021, 2, 022002.	1.2	2
43	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv.) <i>Tj ETQq1 1 0.784314.rgBT /Overlock</i>	10.2	2
44	Antireflective Coatings: HfO <sub>2</sub> Nanorod Array as High Performance and High Temperature Antireflective Coating (Adv. Mater. Interfaces 6/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	0
45	Scanning Tunneling Microscope and Spectroscopy on Organic-Inorganic Material Heterojunction. , 2021, , 71-100.		0