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	Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. Journal of Cluster Science, 2022, 33, 773-783.	1.7	5
2	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures. Chemosphere, 2022, 302, 134750.	4.2	7
3	Platinum doped bismuth vanadate (Pt/BiVO4) for enhanced photocatalytic pollutant degradation using visible light irradiation. Journal of Materials Science: Materials in Electronics, 2022, 33, 15116-15131.	1.1	5
4	Construction of 1T-MoS₂quantum dots-interspersed (Bi_{1â^'x}Fe_x)VO₄heterostructures for electron transport and photocatalytic properties. RSC Advances, 2021, 11, 13105-13118.	1.7	20
5	Scanning Tunneling Microscope and Spectroscope on Organicâ€“Inorganic Material Heterojunction. , 2021, , 71-100.		0
6	Bismuth vanadate/MXene (BiVO4/Ti3C2) 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
7	Nanomaterials significance; contaminants degradation for environmental applications. Nano Express, 2021, 2, 022002.	1.2	2
8	Dynamics of Supramolecular Crystal Growth at the Liquidâ€“Solid Interface Studied via Scanning Tunneling Microscope and the Avrami Equation. Journal of Physical Chemistry C, 2021, 125, 10451-10457.	1.5	8
9	Supramolecular Chemistry: Hostâ€“Guest Molecular Complexes. Molecules, 2021, 26, 3995.	1.7	38
10	Photocatalytic performance of ferric vanadate (FeVO4) nanoparticles synthesized by hydrothermal method. Materials Science in Semiconductor Processing, 2021, 129, 105785.	1.9	28
11	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. Advanced Energy Materials, 2021, 11, .	10.2	40
12	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	10.2	2
13	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
14	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.	2.7	40
15	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.	1.3	34
16	Facile synthesis of Zn3(VO4)2/FeVO4 heterojunction and study on its photocatalytic and electrochemical properties. Applied Nanoscience (Switzerland), 2020, 10, 421-433.	1.6	20
17	Annealing influence on optical performance of HfO2 thin films. Journal of Alloys and Compounds, 2020, 816, 152552.	2.8	23
18	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

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19	Synthesis of novel visible light assisted Pt doped zinc vanadate (Pt/Zn4V2O9) for enhanced photocatalytic properties. Chemical Physics, 2020, 539, 110980.	0.9	13
20	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.	1.1	13
21	Nanoscale tailoring of supramolecular crystals via an oriented external electric field. Nanoscale, 2020, 12, 15072-15080.	2.8	15
22	Morphological effects on the photocatalytic performance of FeVO4 nanocomposite. Nano Structures Nano Objects, 2020, 22, 100431.	1.9	31
23	Recent progress in hybrid perovskite solar cells through scanning tunneling microscopy and spectroscopy. Nanoscale, 2020, 12, 15970-15992.	2.8	19
24	Preparation and characterization of Vanadium pentoxide (V2O5) for photocatalytic degradation of monoazo and diazo dyes. Surfaces and Interfaces, 2020, 19, 100502.	1.5	60
25	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.	1.1	19
26	Single component: Bilayer TiO2 as a durable antireflective coating. Journal of Alloys and Compounds, 2020, 834, 155137.	2.8	17
27	Hydrophobic surface modified HfO₂ antireflective coatings. Nanotechnology, 2019, 30, 40LT01.	1.3	2
28	Influence of Zn+2 Doping on Ni-Based Nanoferrites; (Ni1â^'x ZnxFe2O4). Nanomaterials, 2019, 9, 1024.	1.9	50
29	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.	1.7	21
30	Influence of Refractive Index on Antireflectance Efficiency of Thin Films. Materials, 2019, 12, 1483.	1.3	36
31	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.	1.7	61
32	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.	2.8	52
33	Bilayer SiO₂ Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. Advanced Engineering Materials, 2018, 20, 1700942.	1.6	14
34	Mechanically robust antireflective coatings. Nano Research, 2018, 11, 1699-1713.	5.8	22
35	Synthesis of Zn₃(VO₄)₂/BiVO₄ heterojunction composite for the photocatalytic degradation of methylene blue organic dye and electrochemical detection of H₂O₂. RSC Advances, 2018, 8, 35403-35412.	1.7	34
36	Visible light assisted photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid using a BiVO₄/FeVO₄ heterojunction composite. RSC Advances, 2018, 8, 23489-23498.	1.7	86

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37	Omnidirectional SiO2 AR Coatings. Coatings, 2018, 8, 210.	1.2	5
38	HfO₂ Nanorod Array as Highâ€Performance and Highâ€Temperature Antireflective Coating. Advanced Materials Interfaces, 2017, 4, 1600892.	1.9	16
39	Antireflective coatings with enhanced adhesion strength. Nanoscale, 2017, 9, 11047-11054.	2.8	28
40	Antireflective Coatings: HfO₂ Nanorod Array as Highâ€Performance and Highâ€Temperature Antireflective Coating (Adv. Mater. Interfaces 6/2017). Advanced Materials Interfaces, 2017, 4, .	1.9	0
41	Morphological influence of TiO 2 nanostructures (nanozigzag, nanohelics and nanorod) on photocatalytic degradation of organic dyes. Applied Surface Science, 2017, 400, 184-193.	3.1	95
42	Al₂O₃ Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. ACS Applied Materials & Interfaces, 2017, 9, 36327-36337.	4.0	23
43	Bandâ€Gap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO₃ Nanoparticles. Journal of the American Ceramic Society, 2017, 100, 31-40.	1.9	117
44	A Mini Review: Antireflective Coatings Processing Techniques, Applications and Future Perspective. Research & Reviews Journal of Material Sciences, 2017, 05, .	0.1	8
45	Synthesis of mono layer graphene oxide from sonicated graphite flakes and their Hall effect measurements. Materials Science-Poland, 2014, 32, 292-296.	0.4	5