Sadaf Bashir Khan

List of Publications by Year
in descending order

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45 papers	1,172 citations	361413 20 h-index	395702 33 g-index
45 all docs	45 docs citations	45 times ranked	1105 citing authors

#	Article	IF	Citations
1	Bandâ€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	117
2	Morphological influence of TiO 2 nanostructures (nanozigzag, nanohelics and nanorod) on photocatalytic degradation of organic dyes. Applied Surface Science, 2017, 400, 184-193.	6.1	95
3	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.	3.6	86
4	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.	3.5	61
5	Preparation and characterization of Vanadium pentoxide (V2O5) for photocatalytic degradation of monoazo and diazo dyes. Surfaces and Interfaces, 2020, 19, 100502.	3.0	60
6	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.	5.5	52
7	Influence of Zn+2 Doping on Ni-Based Nanoferrites; (Ni1â^'x ZnxFe2O4). Nanomaterials, 2019, 9, 1024.	4.1	50
8	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.	5.3	40
9	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. Advanced Energy Materials, 2021, 11, .	19.5	40
10	Supramolecular Chemistry: Hostâ€"Guest Molecular Complexes. Molecules, 2021, 26, 3995.	3.8	38
11	Influence of Refractive Index on Antireflectance Efficiency of Thin Films. Materials, 2019, 12, 1483.	2.9	36
12	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.	3.6	34
13	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.	2.7	34
14	Morphological effects on the photocatalytic performance of FeVO4 nanocomposite. Nano Structures Nano Objects, 2020, 22, 100431.	3.5	31
15	Antireflective coatings with enhanced adhesion strength. Nanoscale, 2017, 9, 11047-11054.	5.6	28
16	Photocatalytic performance of ferric vanadate (FeVO4) nanoparticles synthesized by hydrothermal method. Materials Science in Semiconductor Processing, 2021, 129, 105785.	4.0	28
17	Al₂O₃ Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. ACS Applied Materials & Interfaces, 2017, 9, 36327-36337.	8.0	23
18	Annealing influence on optical performance of HfO2 thin films. Journal of Alloys and Compounds, 2020, 816, 152552.	5.5	23

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19	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.	5.3	23
20	Mechanically robust antireflective coatings. Nano Research, 2018, 11, 1699-1713.	10.4	22
21	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.	3.0	21
22	Facile synthesis of Zn3(VO4)2/FeVO4 heterojunction and study on its photocatalytic and electrochemical properties. Applied Nanoscience (Switzerland), 2020, 10, 421-433.	3.1	20
23	Construction of 1T-MoS₂quantum dots-interspersed (Bi_{1â^'x}Fe_x)VO₄heterostructures for electron transport and photocatalytic properties. RSC Advances, 2021, 11, 13105-13118.	3.6	20
24	Recent progress in hybrid perovskite solar cells through scanning tunneling microscopy and spectroscopy. Nanoscale, 2020, 12, 15970-15992.	5.6	19
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.	2.3	19
26	Single component: Bilayer TiO2 as a durable antireflective coating. Journal of Alloys and Compounds, 2020, 834, 155137.	5.5	17
27	HfO₂ Nanorod Array as Highâ€Performance and Highâ€Temperature Antireflective Coating. Advanced Materials Interfaces, 2017, 4, 1600892.	3.7	16
28	Nanoscale tailoring of supramolecular crystals via an oriented external electric field. Nanoscale, 2020, 12, 15072-15080.	5.6	15
29	Bilayer SiO₂ Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. Advanced Engineering Materials, 2018, 20, 1700942.	3.5	14
30	Synthesis of novel visible light assisted Pt doped zinc vanadate (Pt/Zn4V2O9) for enhanced photocatalytic properties. Chemical Physics, 2020, 539, 110980.	1.9	13
31	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.	2.2	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.	3.1	9
33	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.	3.1	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.	8.2	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.	3.8	6

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37	Synthesis of mono layer graphene oxide from sonicated graphite flakes and their Hall effect measurements. Materials Science-Poland, 2014, 32, 292-296.	1.0	5
38	Omnidirectional SiO2 AR Coatings. Coatings, 2018, 8, 210.	2.6	5
39	Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. Journal of Cluster Science, 2022, 33, 773-783.	3.3	5
40	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.	2.2	5
41	Hydrophobic surface modified HfO₂ antireflective coatings. Nanotechnology, 2019, 30, 40LT01.	2.6	2
42	Nanomaterials significance; contaminants degradation for environmental applications. Nano Express, 2021, 2, 022002.	2.4	2
43	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	19.5	2
44	Antireflective Coatings: HfO₂ Nanorod Array as Highâ€Performance and Highâ€Temperature Antireflective Coating (Adv. Mater. Interfaces 6/2017). Advanced Materials Interfaces, 2017, 4, .	3.7	0
45	Scanning Tunneling Microscope and Spectroscope on Organicâ€“Inorganic Material Heterojunction. , 2021, , 71-100.		0