

Shanavas Shajahan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

924
citations

471509

17
h-index

454955

30
g-index

37
all docs

37
docs citations

37
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-functional properties of ternary CeO ₂ /SnO ₂ /rGO nanocomposites: Visible light driven photocatalyst and heavy metal removal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 32-45.	3.9	109
2	Computationally guided synthesis of (2D/3D/2D) rGO/Fe ₂ O ₃ /g-C ₃ N ₄ nanostructure with improved charge separation and transportation efficiency for degradation of pharmaceutical molecules. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117758.	20.2	96
3	High efficient catalytic degradation of tetracycline and ibuprofen using visible light driven novel Cu/Bi ₂ Ti ₂ O ₇ /rGO nanocomposite: Kinetics, intermediates and mechanism. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 512-528.	5.8	72
4	Mechanistic investigation of visible light driven novel La ₂ CuO ₄ /CeO ₂ /rGO ternary hybrid nanocomposites for enhanced photocatalytic performance and antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 340, 96-108.	3.9	60
5	Synthesis and investigation on synergetic effect of rGO-ZnO decorated MoS ₂ microflowers with enhanced photocatalytic and antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 43-53.	4.7	54
6	CuO/C nanocomposite: Synthesis and optimization using sucrose as carbon source and its antifungal activity. <i>Materials Science and Engineering C</i> , 2019, 101, 404-414.	7.3	45
7	Crumpled sheet like graphene based WO ₃ -Fe ₂ O ₃ nanocomposites for enhanced charge transfer and solar photocatalysts for environmental remediation. <i>Applied Surface Science</i> , 2019, 470, 114-128.	6.1	45
8	Sunlight mediated photocatalytic degradation of organic pollutants by statistical optimization of green synthesized NiO NPs as catalyst. <i>Journal of Molecular Liquids</i> , 2019, 293, 111509.	4.9	39
9	First-principles study of efficient phenothiazine-based D π A organic sensitizers with various spacers for DSSCs. <i>Journal of Computational Electronics</i> , 2018, 17, 1410-1420.	2.5	35
10	Optimization and detailed stability study on Pb doped ceria nanocubes for enhanced photodegradation of several anionic and cationic organic pollutants. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1309-1322.	4.9	33
11	Structural, optical and photocatalytic properties of zinc oxide nanoparticles obtained by simple plant extract mediated synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1927-1935.	2.2	29
12	A facile microwave route for fabrication of NiO/rGO hybrid sensor with efficient CO ₂ and acetone gas sensing performance using clad modified fiber optic method. <i>Optik</i> , 2021, 226, 165970.	2.9	29
13	Ecofriendly green synthesis of ZnO nanostructures using <i>Artabotrys Hexapetalu</i> and <i>Bambusa Vulgaris</i> plant extract and investigation on their photocatalytic and antibacterial activity. <i>Materials Research Express</i> , 2019, 6, 105098.	1.6	22
14	Development of high efficient Co ₃ O ₄ /Bi ₂ O ₃ /rGO nanocomposite for an effective photocatalytic degradation of pharmaceutical molecules with improved interfacial charge transfer. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107243.	6.7	21
15	Computational Investigation on Series of Metal-Free Sensitizers in Tetrahydroquinoline with Different π -spacer Groups for DSSCs. <i>ChemistrySelect</i> , 2019, 4, 4097-4104.	1.5	20
16	Hydrothermal assisted phytofabrication of zinc oxide nanoparticles with different nanoscale characteristics for the photocatalytic degradation of Rhodamine B. <i>Optik</i> , 2020, 202, 163607.	2.9	19
17	Computational analysis on D π A based perylene organic efficient sensitizer in dye-sensitized solar cells. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	19
18	Ultrasonically and Photonically Simulatable Bi-Ceria Nanocubes for Enhanced Catalytic Degradation of Aqueous Dyes: A Detailed Study on Optimization, Mechanism and Stability. <i>ChemistrySelect</i> , 2018, 3, 12841-12853.	1.5	18

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19	Photocatalytic and antibacterial activity of bio-treated Ag nanoparticles synthesized using <i>Tinospora cordifolia</i> leaf extract. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8515-8525.	2.2	17
20	Hydrothermal Assisted Synthesis of ZnFe ₂ O ₄ Embedded g-C ₃ N ₄ Nanocomposite with Enhanced Charge Transfer Ability for Effective Removal of Nitrobenzene and Cr(VI). <i>ChemistrySelect</i> , 2020, 5, 5117-5127.	1.5	17
21	Development of high-performance fiber optic gas sensor based rice-like CeO ₂ /MWCNT nanocomposite synthesized by facile hydrothermal route. <i>Optics and Laser Technology</i> , 2020, 123, 105902.	4.6	16
22	Acceptor tuning effect on TPA-based organic efficient sensitizers for optoelectronic applicationsâ€”quantum chemical investigation. <i>Structural Chemistry</i> , 2020, 31, 1029-1042.	2.0	15
23	White LED active Î±-Fe ₂ O ₃ /rGO photocatalytic nanocomposite for an effective degradation of tetracycline and ibuprofen molecules. <i>Environmental Research</i> , 2022, 212, 113301.	7.5	13
24	Proximate composition of orange peel, pea peel and rice husk wastes and their potential use as antimicrobial agents and antioxidants. <i>Vegetos</i> , 2021, 34, 470-476.	1.5	12
25	Study on photocatalytic and antibacterial properties of phase pure Fe ₂ O ₃ nanostructures synthesized using <i>Caralluma Fimbriata</i> and <i>Achyranthes Aspera</i> leaves. <i>Optik</i> , 2020, 203, 164047.	2.9	11
26	Quantum chemical investigation of modified coumarin-based organic efficient sensitizers for optoelectronic applications. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	11
27	Acceptor substituent effect on triphenylamine-based organic dye sensitizers for DSSCs: quantum chemical study. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 1279-1288.	2.2	9
28	Silica-supported heterogeneous catalysts-mediated synthesis of chalcones as potent urease inhibitors: in vitro and molecular docking studies. <i>Monatshefte für Chemie</i> , 2020, 151, 123-133.	1.8	8
29	<i>Abutilon indicum</i> Mediated CuO Nanoparticles: Eco-Approach, Optimum Process of Congo Red Dye Degradation, and Mathematical Model for Multistage Operation. <i>ChemistrySelect</i> , 2020, 5, 8572-8576.	1.5	7
30	Modified polymer network gel preparation on Ag/ZnO quasi sphere nanostructure with enhanced structural and optical properties. <i>Materials Research Express</i> , 2019, 6, 0950a2.	1.6	4
31	Synthesis, spectroscopic characterization and molecular docking study of ethyl 2-(4-(5,)-Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 chemotherapeutic treatment of breast cancer cells. <i>Chemical Physics</i> , 2020, 530, 110596.	1.9	4
32	Quantum chemical investigation on D-Î€-A-based phenothiazine organic chromophores with spacer and electron acceptor effects for DSSCs. <i>Structural Chemistry</i> , 2021, 32, 2199-2207.	2.0	4
33	Effect of terbium doping in bismuth ferrite nanoparticles for the degradation of organic pollutant under sunlight irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9324-9333.	2.2	4
34	The Recent Development in Chemoresistive-Based Heterostructure Gas Sensor Technology, Their Future Opportunities and Challenges: A Review. <i>Membranes</i> , 2022, 12, 555.	3.0	4
35	Synthesis and antioxidant screening of Novel indole amines. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 2693-2704.	2.2	2
36	Synthesis, structural analysis, spectroscopic characterization and second order hyperpolarizability of 2-amino-4-methylpyridinium-4-hydroxybenzoate crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20489-20505.	2.2	1

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37	A Calculation Model of the General Theory of Interaction Potentials for Stoichiometric Lanthanide Type Crystals: Applications to the Cs ₂ KLnCl ₆ System. Scientific Reports, 2019, 9, 19088.	3.3	0