

Usman Ali Rana

List of Publications by Year in descending order

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52
papers

1,222
citations

361413

20
h-index

377865

34
g-index

52
all docs

52
docs citations

52
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	Micelles as Soil and Water Decontamination Agents. <i>Chemical Reviews</i> , 2016, 116, 6042-6074.	47.7	144
2	Effect of thiophene rings on UV/visible spectra and non-linear optical (NLO) properties of triphenylamine based dyes: a quantum chemical perspective. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 418-422.	1.9	99
3	Theoretical designing of novel heterocyclic azo dyes for dye sensitized solar cells. <i>Journal of Computational Electronics</i> , 2014, 13, 1033-1041.	2.5	77
4	Design of donor-acceptor-donor (D-A-D) type small molecule donor materials with efficient photovoltaic parameters. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25363.	2.0	54
5	Proton transport behaviour and molecular dynamics in the guanidinium triflate solid and its mixtures with triflic acid. <i>Journal of Materials Chemistry A</i> , 2014, 2, 681-691.	10.3	51
6	In situ hydrogenation of molybdenum oxide nanowires for enhanced supercapacitors. <i>RSC Advances</i> , 2014, 4, 8741.	3.6	48
7	Synthesis of hierarchical porous spinel nickel cobaltite nanoflakes for high performance electrochemical energy storage supercapacitors. <i>RSC Advances</i> , 2013, 3, 21386.	3.6	47
8	Exploration of a library of triazolothiadiazole and triazolothiadiazine compounds as a highly potent and selective family of cholinesterase and monoamine oxidase inhibitors: design, synthesis, X-ray diffraction analysis and molecular docking studies. <i>RSC Advances</i> , 2015, 5, 21249-21267.	3.6	45
9	Utilization of electron-deficient thiadiazole derivatives as π -spacer for the red shifting of absorption maxima of diarylamine-fluorene based dyes. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	43
10	Synthesis, biological investigation, calf thymus DNA binding and docking studies of the sulfonyl hydrazides and their derivatives. <i>Journal of Molecular Structure</i> , 2016, 1107, 99-108.	3.6	42
11	Thermodynamic and Spectroscopic Investigation of Interactions between Reactive Red 223 and Reactive Orange 122 Anionic Dyes and Cetyltrimethyl Ammonium Bromide (CTAB) Cationic Surfactant in Aqueous Solution. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	40
12	Synthesis, antioxidant, enzyme inhibition and DNA binding studies of novel N-benzylated derivatives of sulfonamide. <i>Journal of Molecular Structure</i> , 2016, 1117, 269-275.	3.6	37
13	Sunflower Oil and Protein-based Novel Bigels as Matrices for Drug Delivery Applications-Characterization and <i>in vitro</i> Antimicrobial Efficiency. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 837-850.	1.9	31
14	Ultra-thin and uniform coating of vanadium oxide on multiwall carbon nanotubes through solution based approach for high-performance electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2013, 111, 400-404.	5.2	28
15	pH Dependent Electrochemical Characterization, Computational Studies and Evaluation of Thermodynamic, Kinetic and Analytical Parameters of Two Phenazines. <i>Journal of the Electrochemical Society</i> , 2015, 162, H115-H123.	2.9	28
16	Protic Ionic Solids and Liquids Based on the Guanidinium Cation as Phase-Change Energy Storage Materials. <i>Energy Technology</i> , 2013, 1, 609-612.	3.8	27
17	Efficient Synthesis of Novel Pyridine-Based Derivatives via Suzuki Cross-Coupling Reaction of Commercially Available 5-Bromo-2-methylpyridin-3-amine: Quantum Mechanical Investigations and Biological Activities. <i>Molecules</i> , 2017, 22, 190.	3.8	24
18	Redox Mechanism and Evaluation of Kinetic and Thermodynamic Parameters of 1,3-dioxolo[4,5-g]pyrido[2,3-b]quinoxaline Using Electrochemical Techniques. <i>Electroanalysis</i> , 2014, 26, 2292-2300.	2.9	23

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19	Development of ionic and non-ionic natural gum-based bigels: Prospects for drug delivery application. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	23
20	Enhancement of "dry" proton conductivity by self-assembled nanochannels in all-solid polyelectrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7615-7623.	10.3	21
21	Regioselective synthesis of 2-(bromomethyl)-5-aryl-thiophene derivatives via palladium (0) catalyzed Suzuki cross-coupling reactions: as antithrombotic and haemolytically active molecules. <i>Chemistry Central Journal</i> , 2014, 8, 74.	2.6	19
22	A Convenient Method for the Synthesis of (Prop-2-Ynyloxy)Benzene Derivatives via Reaction with Propargyl Bromide, Their Optimization, Scope and Biological Evaluation. <i>PLoS ONE</i> , 2014, 9, e115457.	2.5	16
23	pH-dependent redox mechanism and evaluation of kinetic and thermodynamic parameters of a novel anthraquinone. <i>RSC Advances</i> , 2014, 4, 31657-31665.	3.6	16
24	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. <i>RSC Advances</i> , 2017, 7, 54626-54637.	3.6	16
25	Synthesis, Characterization and Investigation of Different Properties of Three Novel Thiourea-Based Non-ionic Surfactants. <i>Journal of Surfactants and Detergents</i> , 2014, 17, 1013-1019.	2.1	15
26	Selective C-Arylation of 2,5-Dibromo-3-hexylthiophene via Suzuki Cross Coupling Reaction and Their Pharmacological Aspects. <i>Molecules</i> , 2015, 20, 5202-5214.	3.8	15
27	Role of nitrogen vacancies in cerium doped aluminum nitride. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 412, 49-54.	2.3	15
28	Synthesis, spectroscopic characterization and pH dependent photometric and electrochemical fate of Schiff bases. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 58-66.	3.9	14
29	Ti _{Ga} -V _N complexes in GaN: a new prospect of carrier mediated ferromagnetism. <i>RSC Advances</i> , 2015, 5, 87437-87444.	3.6	13
30	Efficient Double Suzuki Cross-Coupling Reactions of 2,5-Dibromo-3-hexylthiophene: Anti-Tumor, Haemolytic, Anti-Thrombolytic and Biofilm Inhibition Studies. <i>Molecules</i> , 2016, 21, 977.	3.8	12
31	Partitioning of reactive yellow 86 between aqueous and micellar media studied by differential absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2017, 95, 697-703.	1.1	12
32	Synthesis, Characterization and Effect of a Solvent Mixture on the CMC of a Thio-Based Novel Cationic Surfactant Using a UV-Visible Spectroscopic Technique. <i>Journal of Surfactants and Detergents</i> , 2014, 17, 501-507.	2.1	11
33	Spectroscopic study of benzothiophene partitioning in sodium dodecyl sulfate and cetyl trimethyl ammonium bromide micellar media. <i>Journal of Surfactants and Detergents</i> , 2016, 19, 1033-1041.	2.1	10
34	Palladium (0) catalyzed Suzuki cross-coupling reactions of 2,4-dibromothiophene: selectivity, characterization and biological applications. <i>Journal of Sulfur Chemistry</i> , 2015, 36, 240-250.	2.0	9
35	One step <i>in situ</i> synthesis of ZnS/N and S co-doped carbon composites <i>via</i> salt templating for lithium-ion battery applications. <i>New Journal of Chemistry</i> , 2019, 43, 13038-13047.	2.8	9
36	Removal of Ni(II) from aqueous solution by using micellar enhanced ultrafiltration. <i>Water Science and Technology</i> , 2015, 72, 946-951.	2.5	8

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37	Application of Micellar-Enhanced Ultrafiltration for the Removal of Reactive Blue 19 from Aqueous Media. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 1208-1215.	2.4	8
38	Resonant Raman scattering study of V, Cr and Co ions implanted into GaN. <i>RSC Advances</i> , 2016, 6, 73589-73594.	3.6	8
39	Proton transport in acid containing choline dihydrogen phosphate membranes for fuel cell. <i>Electrochimica Acta</i> , 2013, 111, 41-48.	5.2	7
40	Controlling the electronic properties of Gd: MoS ₂ monolayer with perpendicular electric field. <i>Journal of Electroceramics</i> , 2016, 37, 29-33.	2.0	6
41	Facile Synthesis of Mn-Doped CdTe Nanoparticles: Structural and Magnetic Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 2615-2619.	1.8	6
42	Steady State and Transient Analysis of Novel Design Helium Cooled Ceramic Blanket (HCCB) System of China Fusion Engineering Test Reactor (CFETR). <i>Journal of Fusion Energy</i> , 2018, 37, 308-316.	1.2	6
43	A (solvent-free) approach to metal-free photo-catalysts for methylene blue degradation. <i>Iranian Polymer Journal (English Edition)</i> , 2021, 30, 1029-1039.	2.4	6
44	Biological activity, pH dependent redox behavior and UV-Vis spectroscopic studies of naphthalene derivatives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 140, 173-181.	3.8	5
45	Synthesis, spectroscopic characterization, pH dependent redox mechanism and DNA binding behavior of chlorohydroxyaniline derivatives. <i>RSC Advances</i> , 2014, 4, 22299-22307.	3.6	5
46	pH and temperature responsive redox behavior of biologically important aniline derivatives. <i>RSC Advances</i> , 2015, 5, 64617-64625.	3.6	5
47	TiO ₂ -SiO ₂ -Reinforced Methylated Grafted Natural Rubber (MG49-TiO ₂ -SiO ₂) Polymer Nanocomposites: Preparation, Optimization and Characterization. <i>Polymers and Polymer Composites</i> , 2016, 24, 747-754.	1.9	4
48	A density functional theory study of electronic properties of substitutional alloying of monolayer MoS ₂ and CeS ₂ surface models. <i>Computational and Theoretical Chemistry</i> , 2016, 1084, 98-102.	2.5	4
49	First order Raman scattering analysis of transition metal ions implanted GaN. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 90, 35-39.	4.0	4
50	Copper vanadate nanowires-based MIS capacitors: synthesis, characterization, and their electrical charge storage applications. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	3
51	Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11005-11016.	2.6	2
52	A photocatalytic dye-degradation study on methylene blue by graphitic nitride based polyimides synthesized via a facile thermal-condensation approach. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107747.	6.7	1