

Mohammed Rafi Shaik

List of Publications by Year in descending order

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times ranked

2362
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#	ARTICLE	IF	CITATIONS
1	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review. <i>Journal of Advanced Research</i> , 2022, 38, 157-177.	4.4	22
2	Chemical deposition and exfoliation from liquid crystal template: Nickel/nickel (II) hydroxide nanoflakes electrocatalyst for a non-enzymatic glucose oxidation reaction. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103467.	2.3	13
3	The enormity of the zinc deficiency problem and available solutions; an overview. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103668.	2.3	40
4	Fumarate Based Metal-Organic Framework: An Effective Catalyst for the Transesterification of Used Vegetable Oil. <i>Crystals</i> , 2022, 12, 151.	1.0	19
5	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications. <i>Chemical Record</i> , 2022, 22, e202100274.	2.9	16
6	<i>Pulicaria undulata</i> Extract-Mediated Eco-Friendly Preparation of TiO ₂ Nanoparticles for Photocatalytic Degradation of Methylene Blue and Methyl Orange. <i>ACS Omega</i> , 2022, 7, 4812-4820.	1.6	43
7	Green Synthesis of Silver Nanoparticles Using <i>Juniperus procera</i> Extract: Their Characterization, and Biological Activity. <i>Crystals</i> , 2022, 12, 420.	1.0	28
8	Ascorbic acid-mediated Fe/Cu nanoparticles and their application for removal of COD and phenols from industrial wastewater. <i>Journal of King Saud University - Science</i> , 2022, 34, 101927.	1.6	15
9	Engineered Nanomaterials in Soil: Their Impact on Soil Microbiome and Plant Health. <i>Plants</i> , 2022, 11, 109.	1.6	35
10	Pyrene Functionalized Highly Reduced Graphene Oxide-palladium Nanocomposite: A Novel Catalyst for the Mizoroki-Heck Reaction in Water. <i>Frontiers in Chemistry</i> , 2022, 10, 872366.	1.8	2
11	Photo-Induced Preparation of Ag@MOF-801 Composite Based Heterogeneous Nanocatalyst for the Production of Biodiesel. <i>Catalysts</i> , 2022, 12, 533.	1.6	13
12	ZnCl ₂ catalyzed new coumarinyl-chalcones as cytotoxic agents. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 386-394.	1.8	9
13	Mn ₃ O ₄ nanoparticles: Synthesis, characterization and their antimicrobial and anticancer activity against A549 and MCF-7 cell lines. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1196-1202.	1.8	24
14	<i>Spilanthes acmella</i> Leaves Extract for Corrosion Inhibition in Acid Medium. <i>Coatings</i> , 2021, 11, 106.	1.2	17
15	Zirconium-Doped Chromium IV Oxide Nanocomposites: Synthesis, Characterization, and Photocatalysis towards the Degradation of Organic Dyes. <i>Catalysts</i> , 2021, 11, 117.	1.6	21
16	<i>In vitro</i> antimicrobial activity and comparison of the herbal extracts and sodium hypochlorite against primary plaque colonizers. <i>FEMS Microbiology Letters</i> , 2021, 368, .	0.7	0
17	Computational Study of Structural, Molecular Orbitals, Optical and Thermodynamic Parameters of Thiophene Sulfonamide Derivatives. <i>Crystals</i> , 2021, 11, 211.	1.0	24
18	Dielectric Studies of Bi ₂ MoO ₆ /Graphene Oxide and La-Doped Bi ₂ MoO ₆ /Graphene Oxide Nanocomposites. <i>Metals</i> , 2021, 11, 559.	1.0	2

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19	Production of biodiesel from waste cooking oil using ZnCuO/N-doped graphene nanocomposite as an efficient heterogeneous catalyst. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102982.	2.3	51
20	Facile synthesis, physiochemical characterization and bio evaluation of sulfadimidine capped cobalt nanoparticles. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 2168-2174.	1.8	6
21	Application of Resolvability Technique to Investigate the Different Polyphenyl Structures for Polymer Industry. <i>Journal of Chemistry</i> , 2021, 2021, 1-8.	0.9	25
22	Facile Synthesis and Characterization of Palladium@Carbon Catalyst for the Suzuki-Miyaura and Mizoroki-Heck Coupling Reactions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4822.	1.3	8
23	Synthesis and X-ray crystal structure of unexpected novel thiazolidinone/1,3,4-thiadiazole heterocycle via S-alkylation and Smiles rearrangement dual approaches. <i>Journal of Molecular Structure</i> , 2021, 1234, 130156.	1.8	2
24	Impact of Macrodiols on the Morphological Behavior of H12MDI/HDO-Based Polyurethane Elastomer. <i>Polymers</i> , 2021, 13, 2060.	2.0	5
25	Solventless Mechanochemical Fabrication of ZnO@MnCO ₃ /N-Doped Graphene Nanocomposite: Efficacious and Recoverable Catalyst for Selective Aerobic Dehydrogenation of Alcohols under Alkali-Free Conditions. <i>Catalysts</i> , 2021, 11, 760.	1.6	6
26	Enhanced Apoptosis by Functionalized Highly Reduced Graphene Oxide and Gold Nanocomposites in MCF-7 Breast Cancer Cells. <i>ACS Omega</i> , 2021, 6, 15147-15155.	1.6	11
27	A-D-A-Based Small Molecules for OTFTs Containing Diketopyrrolopyrrole as Acceptor Units. <i>Micromachines</i> , 2021, 12, 817.	1.4	1
28	Synthesis of High-Performance Aqueous Fluorescent Nanodispersions for Textile Printing—A Study of Influence of Moles Ratio on Fastness Properties. <i>Molecules</i> , 2021, 26, 7075.	1.7	1
29	In-silico Study of Seaweed Secondary Metabolites as AXL Kinase Inhibitors. <i>Saudi Journal of Biological Sciences</i> , 2021, 29, 689-701.	1.8	1
30	Synthesis of spiroindolone analogue via three components reaction of olefin with isatin and sarcosine: Anti-proliferative activity and computational studies. <i>Journal of Molecular Structure</i> , 2020, 1204, 127500.	1.8	11
31	Eco-Friendly and Solvent-Less Mechanochemical Synthesis of ZrO ₂ @MnCO ₃ /N-Doped Graphene Nanocomposites: A Highly Efficacious Catalyst for Base-Free Aerobic Oxidation of Various Types of Alcohols. <i>Catalysts</i> , 2020, 10, 1136.	1.6	5
32	Facile synthesis of Pd@graphene nanocomposites with enhanced catalytic activity towards Suzuki coupling reaction. <i>Scientific Reports</i> , 2020, 10, 11728.	1.6	26
33	Selective Oxidation of Citronellol over Titanosilicate Catalysts. <i>Catalysts</i> , 2020, 10, 1284.	1.6	3
34	Synthesis of Au, Ag, and Au@Ag Bimetallic Nanoparticles Using <i>Pulicaria undulata</i> Extract and Their Catalytic Activity for the Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , 2020, 10, 1885.	1.9	52
35	Design, Construction, and Characterization of a New Regioisomer and Diastereomer Material Based on the Spirooxindole Scaffold Incorporating a Sulphone Function. <i>Symmetry</i> , 2020, 12, 1337.	1.1	12
36	Synthesis and Characterization of Co _x O _y @MnCO ₃ and Co _x O _y @Mn ₂ O ₃ Catalysts: A Comparative Catalytic Assessment Towards the Aerial Oxidation of Various Kinds of Alcohols. <i>Processes</i> , 2020, 8, 910.	1.3	5

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37	Nanocomposites of gold nanoparticles with pregabalin: The future anti-seizure drug. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6267-6273.	2.3	8
38	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle@MnCO ₃ /graphene oxide composites. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5718.	1.7	23
39	Pd(PPh ₃) ₄ Catalyzed Synthesis of Indazole Derivatives as Potent Anticancer Drug. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3792.	1.3	10
40	Pollen Bee Aqueous Extract-Based Synthesis of Silver Nanoparticles and Evaluation of Their Anti-Cancer and Anti-Bacterial Activities. <i>Processes</i> , 2020, 8, 524.	1.3	25
41	Eco-Friendly Mechanochemical Preparation of Ag ₂ O@MnO ₂ /Graphene Oxide Nanocomposite: An Efficient and Reusable Catalyst for the Base-Free, Aerial Oxidation of Alcohols. <i>Catalysts</i> , 2020, 10, 281.	1.6	19
42	Study of Antibacterial Properties of Ziziphus mauritiana based Green Synthesized Silver Nanoparticles against Various Bacterial Strains. <i>Sustainability</i> , 2020, 12, 1484.	1.6	24
43	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , 2020, 5, 1987-1996.	1.6	71
44	Facile Sonochemical Preparation of Au-ZrO ₂ Nanocatalyst for the Catalytic Reduction of 4-Nitrophenol. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 503.	1.3	12
45	One-Pot Synthesis, X-ray Single Crystal and Molecular Insight of Enaminone-Based β -Morpholino-/N-Methylpiperazinyl-/Pyrrolidinylpropiophenone. <i>Crystals</i> , 2020, 10, 282.	1.0	1
46	A Facile Synthesis of ZrO _x -MnCO ₃ /Graphene Oxide (GRO) Nanocomposites for the Oxidation of Alcohols using Molecular Oxygen under Base Free Conditions. <i>Catalysts</i> , 2019, 9, 759.	1.6	12
47	One-Pot Synthesized Pd@N-Doped Graphene: An Efficient Catalyst for Suzuki-Miyaura Couplings. <i>Catalysts</i> , 2019, 9, 469.	1.6	25
48	Solvothermal Preparation and Electrochemical Characterization of Cubic ZrO ₂ Nanoparticles/Highly Reduced Graphene (HRG) based Nanocomposites. <i>Materials</i> , 2019, 12, 711.	1.3	26
49	Synthesis and characterization of a spiroindolone pyrothiazole analog via X-ray, biological, and computational studies. <i>Journal of Molecular Structure</i> , 2019, 1186, 384-392.	1.8	12
50	Ag ₂ O nanoparticles/MnCO ₃ , @MnO ₂ or @Mn ₂ O ₃ /highly reduced graphene oxide composites as an efficient and recyclable oxidation catalyst. <i>Arabian Journal of Chemistry</i> , 2019, 12, 54-68.	2.3	29
51	Chemical reactivity, molecular structure, spectroscopic and DFT computational studies of spiro-heterocycle incorporating furan ring. <i>Materials Express</i> , 2018, 8, 335-344.	0.2	1
52	Ag ₂ O Nanoparticles-Doped Manganese Immobilized on Graphene Nanocomposites for Aerial Oxidation of Secondary Alcohols. <i>Metals</i> , 2018, 8, 468.	1.0	3
53	Plant-Extract-Assisted Green Synthesis of Silver Nanoparticles Using <i>Origanum vulgare</i> L. Extract and Their Microbicidal Activities. <i>Sustainability</i> , 2018, 10, 913.	1.6	211
54	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , 2018, 47, 11988-12010.	1.6	97

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55	Silver-doped manganese based nanocomposites for aerial oxidation of alcohols. <i>Materials Express</i> , 2018, 8, 35-54.	0.2	7
56	Miswak mediated green synthesized palladium nanoparticles as effective catalysts for the Suzuki coupling reactions in aqueous media. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 450-457.	2.4	84
57	Synthesis and comparative catalytic study of zinc oxide (ZnO _x) nanoparticles promoted MnCO ₃ , MnO ₂ and Mn ₂ O ₃ for selective oxidation of benzylic alcohols using molecular oxygen. <i>Materials Express</i> , 2017, 7, 79-92.	0.2	23
58	Modification of thin-film polyamide membrane with multi-walled carbon nanotubes by interfacial polymerization. <i>Applied Water Science</i> , 2017, 7, 4341-4350.	2.8	33
59	A highly reduced graphene oxide/ZrO _x MnCO ₃ or Mn ₂ O ₃ nanocomposite as an efficient catalyst for selective aerial oxidation of benzylic alcohols. <i>RSC Advances</i> , 2017, 7, 55336-55349.	1.7	42
60	Green Synthesis and Characterization of Palladium Nanoparticles Using <i>Origanum vulgare</i> L. Extract and Their Catalytic Activity. <i>Molecules</i> , 2017, 22, 165.	1.7	101
61	Screening, Purification and Characterization of Anionic Antimicrobial Proteins from <i>Foeniculum Vulgare</i> . <i>Molecules</i> , 2017, 22, 602.	1.7	12
62	Plant Extract Mediated Eco-Friendly Synthesis of Pd@Graphene Nanocatalyst: An Efficient and Reusable Catalyst for the Suzuki-Miyaura Coupling. <i>Catalysts</i> , 2017, 7, 20.	1.6	20
63	Mixed Zinc/Manganese on Highly Reduced Graphene Oxide: A Highly Active Nanocomposite Catalyst for Aerial Oxidation of Benzylic Alcohols. <i>Catalysts</i> , 2017, 7, 391.	1.6	21
64	Synthesis, Characterization, and Relative Study on the Catalytic Activity of Zinc Oxide Nanoparticles Doped MnCO ₃ , MnO ₂ , and Mn ₂ O ₃ Nanocomposites for Aerial Oxidation of Alcohols. <i>Journal of Chemistry</i> , 2017, 2017, 1-17.	0.9	8
65	Comparative Catalytic Evaluation of Nano-ZrO _x Promoted Manganese Catalysts: Kinetic Study and the Effect of Dopant on the Aerobic Oxidation of Secondary Alcohols. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-14.	1.0	6
66	New RO TFC Membranes by Interfacial Polymerization in n-Dodecane with Various co-Solvents. <i>Membranes</i> , 2016, 6, 24.	1.4	15
67	Modified Polyacrylic Acid-Zinc Composites: Synthesis, Characterization and Biological Activity. <i>Molecules</i> , 2016, 21, 292.	1.7	20
68	Miswak-Based Green Synthesis of Silver Nanoparticles: Evaluation and Comparison of Their Microbicidal Activities with the Chemical Synthesis. <i>Molecules</i> , 2016, 21, 1478.	1.7	40
69	Crystal structure of diethylammonium 1,3-dimethyl-2,4,6-trioxohexahydropyrimidin-5-ide, C ₁₀ H ₁₉ N ₃ O ₃ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2016, 231, 1063-1064.	0.1	1
70	Green synthesis of Pd@graphene nanocomposite: Catalyst for the selective oxidation of alcohols. <i>Arabian Journal of Chemistry</i> , 2016, 9, 835-845.	2.3	50
71	Synthesis, Spectroscopic Investigations (X-ray, NMR and TD-DFT), Antimicrobial Activity and Molecular Docking of 2,6-Bis(hydroxy(phenyl)methyl)cyclohexanone. <i>Molecules</i> , 2015, 20, 13240-13263.	1.7	4
72	Development of Castor Oil Based Poly(urethane-esteramide)/TiO ₂ Nanocomposites as Anticorrosive and Antimicrobial Coatings. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	1.5	30

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73	Characterization and Evaluation of the Improved Performance of Modified Reverse Osmosis Membranes by Incorporation of Various Organic Modifiers and SnO ₂ Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-11.	1.5	13
74	Evaluation of Biological Activities of Chemically Synthesized Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	19
75	Development of sustainable resource based poly(urethane-etheramide)/Fe ₂ O ₃ nanocomposite as anticorrosive coating materials. <i>Journal of Polymer Engineering</i> , 2015, 35, 905-916.	0.6	6
76	Impairment of DNA in a Freshwater Gastropod (<i>Lymnea luteola</i> L.) After Exposure to Titanium Dioxide Nanoparticles. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 68, 543-552.	2.1	25
77	Green Approach for the Effective Reduction of Graphene Oxide Using <i>Salvadora persica</i> L. Root (Miswak) Extract. <i>Nanoscale Research Letters</i> , 2015, 10, 987.	3.1	138
78	Synthesis, NMR, FT-IR, X-ray structural characterization, DFT analysis and isomerism aspects of 5-(2,6-dichlorobenzylidene)pyrimidine-2,4,6(1H,3H,5H)-trione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 147, 107-116.	2.0	25
79	Characterization and Evaluation of Reverse Osmosis Membranes Modified with Ag ₂ O Nanoparticles to Improve Performance. <i>Nanoscale Research Letters</i> , 2015, 10, 379.	3.1	23
80	Synthesis, Spectroscopic and Biological Activities of Aromatic Schiff Base. <i>Asian Journal of Chemistry</i> , 2014, 26, 7377-7380.	0.1	0
81	Ni/Silica catalyzed acetylation of phenols and naphthols: An eco-friendly approach. <i>Arabian Journal of Chemistry</i> , 2014, 7, 53-56.	2.3	10
82	Optical and electrical conducting properties of Polyaniline/Tin oxide nanocomposite. <i>Arabian Journal of Chemistry</i> , 2013, 6, 341-345.	2.3	68
83	Vegetable-Oil-Based Hyperbranched Polyester-Styrene Copolymer Containing Silver Nanoparticle as Antimicrobial and Corrosion-Resistant Coating Materials. <i>Journal of Chemistry</i> , 2013, 2013, 1-11.	0.9	5
84	Optical and Electrical Studies of Polyaniline/ZnO Nanocomposite. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	1.5	24
85	Development of corrosion protective polymeric coatings from a non-edible seed oil. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 253-261.	0.5	1
86	Reverse osmosis membranes prepared by interfacial polymerization in n-heptane containing different co-solvents. <i>Desalination and Water Treatment</i> , 0, 1-12.	1.0	4