

Mohammed Rafi Shaik

List of Publications by Year in descending order

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279487

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2362
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , 2020, 5, 1987-1996.	1.6	71
7	Optical and electrical conducting properties of Polyaniline/Tin oxide nanocomposite. <i>Arabian Journal of Chemistry</i> , 2013, 6, 341-345.	2.3	68
8	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
9	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
10	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
11	<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
12	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
13	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
14	The enormity of the zinc deficiency problem and available solutions; an overview. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103668.	2.3	40
15	Engineered Nanomaterials in Soil: Their Impact on Soil Microbiome and Plant Health. <i>Plants</i> , 2022, 11, 109.	1.6	35
16	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
17	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
18	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

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19	Green Synthesis of Silver Nanoparticles Using Juniperus procera Extract: Their Characterization, and Biological Activity. Crystals, 2022, 12, 420.	1.0	28
20	Solvothermal Preparation and Electrochemical Characterization of Cubic ZrO ₂ Nanoparticles/Highly Reduced Graphene (HRG) based Nanocomposites. Materials, 2019, 12, 711.	1.3	26
21	Facile synthesis of Pd@graphene nanocomposites with enhanced catalytic activity towards Suzuki coupling reaction. Scientific Reports, 2020, 10, 11728.	1.6	26
22	Impairment of DNA in a Freshwater Gastropod (<i>Lymnea luteola</i> L.) After Exposure to Titanium Dioxide Nanoparticles. Archives of Environmental Contamination and Toxicology, 2015, 68, 543-552.	2.1	25
23	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 147, 107-116.	2.0	25
24	One-Pot Synthesized Pd@N-Doped Graphene: An Efficient Catalyst for Suzuki-Miyaura Couplings. Catalysts, 2019, 9, 469.	1.6	25
25	Pollen Bee Aqueous Extract-Based Synthesis of Silver Nanoparticles and Evaluation of Their Anti-Cancer and Anti-Bacterial Activities. Processes, 2020, 8, 524.	1.3	25
26	Application of Resolvability Technique to Investigate the Different Polyphenyl Structures for Polymer Industry. Journal of Chemistry, 2021, 2021, 1-8.	0.9	25
27	Optical and Electrical Studies of Polyaniline/ZnO Nanocomposite. Journal of Nanomaterials, 2013, 2013, 1-5.	1.5	24
28	Study of Antibacterial Properties of Ziziphus mauritiana based Green Synthesized Silver Nanoparticles against Various Bacterial Strains. Sustainability, 2020, 12, 1484.	1.6	24
29	Mn ₃ O ₄ nanoparticles: Synthesis, characterization and their antimicrobial and anticancer activity against A549 and MCF-7 cell lines. Saudi Journal of Biological Sciences, 2021, 28, 1196-1202.	1.8	24
30	Computational Study of Structural, Molecular Orbitals, Optical and Thermodynamic Parameters of Thiophene Sulfonamide Derivatives. Crystals, 2021, 11, 211.	1.0	24
31	Characterization and Evaluation of Reverse Osmosis Membranes Modified with Ag ₂ O Nanoparticles to Improve Performance. Nanoscale Research Letters, 2015, 10, 379.	3.1	23
32	Synthesis and comparative catalytic study of zinc oxide (ZnO) nanoparticles promoted MnCO ₃ , MnO ₂ and Mn ₂ O ₃ for selective oxidation of benzylic alcohols using molecular oxygen. Materials Express, 2017, 7, 79-92.	0.2	23
33	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle-MnCO ₃ -graphene oxide composites. Applied Organometallic Chemistry, 2020, 34, e5718.	1.7	23
34	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review. Journal of Advanced Research, 2022, 38, 157-177.	4.4	22
35	Mixed Zinc/Manganese on Highly Reduced Graphene Oxide: A Highly Active Nanocomposite Catalyst for Aerial Oxidation of Benzylic Alcohols. Catalysts, 2017, 7, 391.	1.6	21
36	Zirconium-Doped Chromium IV Oxide Nanocomposites: Synthesis, Characterization, and Photocatalysis towards the Degradation of Organic Dyes. Catalysts, 2021, 11, 117.	1.6	21

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37	Modified Polyacrylic Acid-Zinc Composites: Synthesis, Characterization and Biological Activity. <i>Molecules</i> , 2016, 21, 292.	1.7	20
38	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
39	Evaluation of Biological Activities of Chemically Synthesized Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	19
40	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
41	Fumarate Based Metal-Organic Framework: An Effective Catalyst for the Transesterification of Used Vegetable Oil. <i>Crystals</i> , 2022, 12, 151.	1.0	19
42	Spilanthes acmella Leaves Extract for Corrosion Inhibition in Acid Medium. <i>Coatings</i> , 2021, 11, 106.	1.2	17
43	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications. <i>Chemical Record</i> , 2022, 22, e202100274.	2.9	16
44	New RO TFC Membranes by Interfacial Polymerization in n-Dodecane with Various co-Solvents. <i>Membranes</i> , 2016, 6, 24.	1.4	15
45	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
46	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
47	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
48	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
49	Screening, Purification and Characterization of Anionic Antimicrobial Proteins from <i>Foeniculum Vulgare</i> . <i>Molecules</i> , 2017, 22, 602.	1.7	12
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Pd(PPh ₃) ₄ Catalyzed Synthesis of Indazole Derivatives as Potent Anticancer Drug. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3792.	1.3	10
58	ZnCl ₂ catalyzed new coumarinyl-chalcones as cytotoxic agents. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 386-394.	1.8	9
59	Synthesis, Characterization, and Relative Study on the Catalytic Activity of Zinc Oxide Nanoparticles Doped MnCO ₃ , MnO ₂ , and MnO ₃ Nanocomposites for Aerial Oxidation of Alcohols. <i>Journal of Chemistry</i> , 2017, 2017, 1-17.	0.9	8
60	Nanocomposites of gold nanoparticles with pregabalin: The future anti-seizure drug. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6267-6273.	2.3	8
61	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
62	Silver-doped manganese based nanocomposites for aerial oxidation of alcohols. <i>Materials Express</i> , 2018, 8, 35-54.	0.2	7
63	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
64	Comparative Catalytic Evaluation of Nano-ZrO ₂ 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
65	Facile synthesis, physicochemical characterization and bio evaluation of sulfadimidine capped cobalt nanoparticles. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 2168-2174.	1.8	6
66	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
67	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
68	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
69	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
70	Impact of Macrodiols on the Morphological Behavior of H12MDI/HDO-Based Polyurethane Elastomer. <i>Polymers</i> , 2021, 13, 2060.	2.0	5
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	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

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73	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
74	Selective Oxidation of Citronellol over Titanosilicate Catalysts. <i>Catalysts</i> , 2020, 10, 1284.	1.6	3
75	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
76	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
77	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
78	Development of corrosion protective polymeric coatings from a non-€edible seed oil. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 253-261.	0.5	1
79	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
80	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
81	One-Pot Synthesis, X-ray Single Crystal and Molecular Insight of Enaminone-Based ̂ ² -Morpholino-/N-Methylpiperazinyl-/Pyrrolidinylpropiophenone. <i>Crystals</i> , 2020, 10, 282.	1.0	1
82	A-̂-D-̂-A-Based Small Molecules for OTFTs Containing Diketopyrrolopyrrole as Acceptor Units. <i>Micromachines</i> , 2021, 12, 817.	1.4	1
83	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
84	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
85	Synthesis, Spectroscopic and Biological Activities of Aromatic Schiff Base. <i>Asian Journal of Chemistry</i> , 2014, 26, 7377-7380.	0.1	0
86	<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