

Ts Umer Rashid

List of Publications by Year in descending order

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344
papers

12,370
citations

25034

57
h-index

43889

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350
all docs

350
docs citations

350
times ranked

10811
citing authors

#	ARTICLE	IF	CITATIONS
1	Moringa oleifera oil: A possible source of biodiesel. <i>Bioresource Technology</i> , 2008, 99, 8175-8179.	9.6	424
2	Production of slow release crystal fertilizer from wastewaters through struvite crystallization – A review. <i>Arabian Journal of Chemistry</i> , 2014, 7, 139-155.	4.9	399
3	Production of biodiesel through optimized alkaline-catalyzed transesterification of rapeseed oil. <i>Fuel</i> , 2008, 87, 265-273.	6.4	396
4	Green Synthesis of Silver Nanoparticles through Reduction with Solanum xanthocarpum L. Berry Extract: Characterization, Antimicrobial and Urease Inhibitory Activities against <i>Helicobacter pylori</i> . <i>International Journal of Molecular Sciences</i> , 2012, 13, 9923-9941.	4.1	286
5	Biochar production from waste rubber-wood-sawdust and its potential use in C sequestration: Chemical and physical characterization. <i>Industrial Crops and Products</i> , 2013, 44, 18-24.	5.2	271
6	Kinetic analyses and pyrolytic behavior of Para grass (<i>Urochloa mutica</i>) for its bioenergy potential. <i>Bioresource Technology</i> , 2017, 224, 708-713.	9.6	262
7	Investigation of heterogeneous solid acid catalyst performance on low grade feedstocks for biodiesel production: A review. <i>Energy Conversion and Management</i> , 2017, 141, 171-182.	9.2	240
8	Evaluation of biodiesel obtained from cottonseed oil. <i>Fuel Processing Technology</i> , 2009, 90, 1157-1163.	7.2	238
9	Production of sunflower oil methyl esters by optimized alkali-catalyzed methanolysis. <i>Biomass and Bioenergy</i> , 2008, 32, 1202-1205.	5.7	210
10	Biomass production for bioenergy using marginal lands. <i>Sustainable Production and Consumption</i> , 2017, 9, 3-21.	11.0	161
11	Modified waste egg shell derived bifunctional catalyst for biodiesel production from high FFA waste cooking oil. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3645-3655.	16.4	159
12	Okra (<i>Hibiscus esculentus</i>) seed oil for biodiesel production. <i>Applied Energy</i> , 2010, 87, 779-785.	10.1	155
13	Synthesis of waste cooking oil-based biodiesel via effectual recyclable bi-functional Fe ₂ O ₃ MnOSO ₄ ·ZrO ₂ nanoparticle solid catalyst. <i>Fuel</i> , 2015, 142, 38-45.	6.4	139
14	Transesterification of <i>Jatropha curcas</i> crude oil to biodiesel on calcium lanthanum mixed oxide catalyst: Effect of stoichiometric composition. <i>Energy Conversion and Management</i> , 2014, 88, 1290-1296.	9.2	137
15	Application of response surface methodology for optimizing transesterification of <i>Moringa oleifera</i> oil: Biodiesel production. <i>Energy Conversion and Management</i> , 2011, 52, 3034-3042.	9.2	135
16	Production of biodiesel from non-edible <i>Jatropha curcas</i> oil via transesterification using Bi ₂ O ₃ ·La ₂ O ₃ catalyst. <i>Energy Conversion and Management</i> , 2014, 88, 1257-1262.	9.2	122
17	Production of Biodiesel through Base-Catalyzed Transesterification of Safflower Oil Using an Optimized Protocol. <i>Energy & Fuels</i> , 2008, 22, 1306-1312.	5.1	116
18	Esterification of palm fatty acid distillate using sulfonated carbon-based catalyst derived from palm kernel shell and bamboo. <i>Energy Conversion and Management</i> , 2019, 181, 562-570.	9.2	107

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19	Low-cost solid catalyst derived from waste <i>Cyrtopleura costata</i> (Angel Wing Shell) for biodiesel production using microalgae oil. <i>Energy Conversion and Management</i> , 2015, 101, 749-756.	9.2	105
20	Pyrolysis of polypropylene plastic waste into carbonaceous char: Priority of plastic waste management amidst COVID-19 pandemic. <i>Science of the Total Environment</i> , 2022, 803, 149911.	8.0	104
21	Synthesis of biodiesel from palm fatty acid distillate using sulfonated palm seed cake catalyst. <i>Renewable Energy</i> , 2017, 111, 611-619.	8.9	98
22	Biodiesel from <i>Citrus reticulata</i> (mandarin orange) seed oil, a potential non-food feedstock. <i>Industrial Crops and Products</i> , 2013, 45, 355-359.	5.2	97
23	Supported solid and heteropoly acid catalysts for production of biodiesel. <i>Catalysis Reviews - Science and Engineering</i> , 2017, 59, 165-188.	12.9	97
24	Waste to biodiesel: A preliminary assessment for Saudi Arabia. <i>Bioresource Technology</i> , 2018, 250, 17-25.	9.6	95
25	Design, synthesis, in-vitro, in-vivo and in-silico studies of pyrrolidine-2,5-dione derivatives as multitarget anti-inflammatory agents. <i>European Journal of Medicinal Chemistry</i> , 2020, 186, 111863.	5.5	95
26	Methyl ester production from palm fatty acid distillate using sulfonated glucose-derived acid catalyst. <i>Renewable Energy</i> , 2015, 81, 347-354.	8.9	91
27	Palladium and Copper Catalyzed Sonogashira cross Coupling an Excellent Methodology for C-C Bond Formation over 17 Years: A Review. <i>Catalysts</i> , 2020, 10, 443.	3.5	91
28	Preparation of Na ₂ O supported CNTs nanocatalyst for efficient biodiesel production from waste-oil. <i>Energy Conversion and Management</i> , 2020, 205, 112445.	9.2	86
29	Biodiesel production from crude <i>Jatropha Curcas</i> oil using calcium based mixed oxide catalysts. <i>Fuel</i> , 2014, 136, 244-252.	6.4	82
30	Photocatalysis for Organic Wastewater Treatment: From the Basis to Current Challenges for Society. <i>Catalysts</i> , 2020, 10, 1260.	3.5	82
31	Biodiesel production in the presence of sulfonated mesoporous ZnAl ₂ O ₄ catalyst via esterification of palm fatty acid distillate (PFAD). <i>Fuel</i> , 2016, 178, 253-262.	6.4	80
32	Biodiesel from Milo (<i>Thespesia populnea</i> L.) seed oil. <i>Biomass and Bioenergy</i> , 2011, 35, 4034-4039.	5.7	79
33	Improvement in the Water Retention Characteristics of Sandy Loam Soil Using a Newly Synthesized Poly(acrylamide-co-acrylic Acid)/AlZnFe ₂ O ₄ Superabsorbent Hydrogel Nanocomposite Material. <i>Molecules</i> , 2012, 17, 9397-9412.	3.8	79
34	CeO ₂ –SiO ₂ supported nickel catalysts for dry reforming of methane toward syngas production. <i>Applied Catalysis A: General</i> , 2013, 468, 359-369.	4.3	79
35	Optimization of oil extraction from waste <i>Albizia pita</i> for biodiesel production. <i>Energy Conversion and Management</i> , 2016, 117, 264-272.	9.2	79
36	Synthesis, in-vitro α -glucosidase inhibition, antioxidant, in-vivo antidiabetic and molecular docking studies of pyrrolidine-2,5-dione and thiazolidine-2,4-dione derivatives. <i>Bioorganic Chemistry</i> , 2019, 91, 103128.	4.1	79

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37	Isolation of dihydrobenzofuran derivatives from ethnomedicinal species <i>Polygonum barbatum</i> as anticancer compounds. <i>Biological Research</i> , 2019, 52, 1.	3.4	79
38	Structure based medicinal chemistry-driven strategy to design substituted dihydropyrimidines as potential antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 115, 230-244.	5.5	76
39	Recent progress in synthesis and surface functionalization of mesoporous acidic heterogeneous catalysts for esterification of free fatty acid feedstocks: A review. <i>Energy Conversion and Management</i> , 2017, 141, 183-205.	9.2	76
40	Production of biodiesel from mixed waste vegetable oils using Ferric hydrogen sulphate as an effective reusable heterogeneous solid acid catalyst. <i>Applied Catalysis A: General</i> , 2013, 456, 182-187.	4.3	75
41	Performance and exhaust emission characteristics of direct-injection diesel engine fueled with enriched biodiesel. <i>Energy Conversion and Management</i> , 2015, 106, 365-372.	9.2	74
42	Design, synthesis and bioevaluation of tricyclic fused ring system as dual binding site acetylcholinesterase inhibitors. <i>Bioorganic Chemistry</i> , 2019, 83, 336-347.	4.1	72
43	Activated Carbon from Various Agricultural Wastes by Chemical Activation with KOH: Preparation and Characterization. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 708-714.	0.3	71
44	Fe ₃ O ₄ -PDA-Lipase as Surface Functionalized Nano Biocatalyst for the Production of Biodiesel Using Waste Cooking Oil as Feedstock: Characterization and Process Optimization. <i>Energies</i> , 2020, 13, 177.	3.1	70
45	Optimization of alkaline transesterification of rice bran oil for biodiesel production using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1364-1370.	3.2	67
46	Lubricant properties of Moringa oil using thermal and tribological techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 96, 999-1008.	3.6	67
47	Advances in Valorization of Lignocellulosic Biomass towards Energy Generation. <i>Catalysts</i> , 2021, 11, 309.	3.5	67
48	Biomedical Applications of Aromatic Azo Compounds. <i>Mini-Reviews in Medicinal Chemistry</i> , 2018, 18, 1548-1558.	2.4	66
49	Muskmelon (<i>Cucumis melo</i>) seed oil: A potential non-food oil source for biodiesel production. <i>Energy</i> , 2011, 36, 5632-5639.	8.8	63
50	Meso- and macroporous sulfonated starch solid acid catalyst for esterification of palm fatty acid distillate. <i>Arabian Journal of Chemistry</i> , 2016, 9, 179-189.	4.9	63
51	Current scenario of catalysts for biodiesel production: a critical review. <i>Reviews in Chemical Engineering</i> , 2018, 34, 267-297.	4.4	63
52	Characterization of <i>Moringa oleifera</i> seed oil from drought and irrigated regions of Punjab, Pakistan. <i>Grasas Y Aceites</i> , 2006, 57, .	0.9	63
53	In Vitro Antimicrobial, Antioxidant, Cytotoxicity and GC-MS Analysis of <i>Mazus goodenifolius</i> . <i>Molecules</i> , 2012, 17, 14275-14287.	3.8	62
54	A Review on Thermal Conversion of Plant Oil (Edible and Inedible) into Green Fuel Using Carbon-Based Nanocatalyst. <i>Catalysts</i> , 2019, 9, 350.	3.5	62

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55	Variation in Minerals, Phenolics and Antioxidant Activity of Peel and Pulp of Different Varieties of Peach (<i>Prunus persica</i> L.) Fruit from Pakistan. <i>Molecules</i> , 2012, 17, 6491-6506.	3.8	61
56	Synthesis of palm oil-based trimethylolpropane ester as potential biolubricant: Chemical kinetics modeling. <i>Chemical Engineering Journal</i> , 2012, 200-202, 532-540.	12.7	61
57	Carbohydrate-derived Solid Acid Catalysts for Biodiesel Production from Low-Cost Feedstocks: A Review. <i>Catalysis Reviews - Science and Engineering</i> , 2014, 56, 187-219.	12.9	61
58	Carbonaceous materials modified catalysts for simultaneous SO ₂ /NO _x removal from flue gas: A review. <i>Catalysis Reviews - Science and Engineering</i> , 2019, 61, 134-161.	12.9	61
59	Synthesis of 2-acylated and sulfonated 4-hydroxycoumarins: In vitro urease inhibition and molecular docking studies. <i>Bioorganic Chemistry</i> , 2016, 66, 111-116.	4.1	60
60	Efficient waste <i>Gallus domesticus</i> shell derived calcium-based catalyst for biodiesel production. <i>Fuel</i> , 2018, 211, 67-75.	6.4	60
61	Synthesis and characterization of calcium methoxide as heterogeneous catalyst for trimethylolpropane esters conversion reaction. <i>Applied Catalysis A: General</i> , 2012, 425-426, 184-190.	4.3	59
62	Application of response surface methodology (RSM) for optimizing the palm-based pentaerythritol ester synthesis. <i>Industrial Crops and Products</i> , 2014, 62, 305-312.	5.2	59
63	Response Surface Methodology: An Emphatic Tool for Optimized Biodiesel Production Using Rice Bran and Sunflower Oils. <i>Energies</i> , 2012, 5, 3307-3328.	3.1	57
64	Hydrothermal effect on synthesis, characterization and catalytic properties of calcium methoxide for biodiesel production from crude <i>Jatropha curcas</i> . <i>RSC Advances</i> , 2015, 5, 4266-4276.	3.6	56
65	Chemical Composition of Date Palm (<i>Phoenix dactylifera</i> L.) Seed Oil from Six Saudi Arabian Cultivars. <i>Journal of Food Science</i> , 2018, 83, 624-630.	3.1	56
66	Optimization of Base Catalytic Methanolysis of Sunflower (<i>Helianthus annuus</i>) Seed Oil for Biodiesel Production by Using Response Surface Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1719-1726.	3.7	54
67	Rational design and synthesis of dihydropyrimidine based dual binding site acetylcholinesterase inhibitors. <i>Bioorganic Chemistry</i> , 2016, 69, 91-101.	4.1	54
68	Synthesis of bimetallic gold-palladium loaded on carbon as efficient catalysts for the oxidation of benzyl alcohol into benzaldehyde. <i>Journal of Molecular Liquids</i> , 2018, 271, 885-891.	4.9	54
69	Valorization of solid waste biomass by inoculation for the enhanced yield of biogas. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 513-522.	4.1	54
70	Detection of aflatoxins and zearalenone contamination in wheat derived products. <i>Food Control</i> , 2014, 35, 223-226.	5.5	52
71	Synthesis, biological evaluation and docking studies of 2,3-dihydroquinazolin-4(1H)-one derivatives as inhibitors of cholinesterases. <i>Bioorganic Chemistry</i> , 2017, 70, 237-244.	4.1	51
72	Design, synthesis, in-vitro thymidine phosphorylase inhibition, in-vivo antiangiogenic and in-silico studies of C-6 substituted dihydropyrimidines. <i>Bioorganic Chemistry</i> , 2018, 80, 99-111.	4.1	50

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73	Chemical Characterization, Analgesic, Antioxidant, and Anticholinesterase Potentials of Essential Oils From <i>Isodon rugosus</i> Wall. ex. Benth. <i>Frontiers in Pharmacology</i> , 2018, 9, 623.	3.5	50
74	Solvent-free catalytic deoxygenation of palm fatty acid distillate over cobalt and manganese supported on activated carbon originating from waste coconut shell. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104690.	5.5	50
75	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , 2021, 323, 129015.	9.3	50
76	The effect of sulfate contents on the surface properties of iron-manganese doped sulfated zirconia catalysts. <i>Powder Technology</i> , 2014, 253, 809-813.	4.2	49
77	Modified sulfonation method for converting carbonized glucose into solid acid catalyst for the esterification of palm fatty acid distillate. <i>Fuel</i> , 2018, 229, 68-78.	6.4	48
78	Synthesis, in-vitro, in-vivo anti-inflammatory activities and molecular docking studies of acyl and salicylic acid hydrazide derivatives. <i>Bioorganic Chemistry</i> , 2020, 104, 104168.	4.1	48
79	Bifunctional nano-catalyst produced from palm kernel shell via hydrothermal-assisted carbonization for biodiesel production from waste cooking oil. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110638.	16.4	48
80	Sub- and supercritical esterification of palm fatty acid distillate with carbohydrate-derived solid acid catalyst. <i>Chemical Engineering Journal</i> , 2016, 284, 872-878.	12.7	47
81	Esterification of palm fatty acid distillate (PFAD) to biodiesel using Bi-functional catalyst synthesized from waste angel wing shell (<i>Cyrtopleura costata</i>). <i>Renewable Energy</i> , 2019, 131, 187-196.	8.9	47
82	Effects of polyvinylpyrrolidone on structural and optical properties of willemite semiconductor nanoparticles by polymer thermal treatment method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 2249-2268.	3.6	46
83	Synthesis and characterization of bifunctional magnetic nano-catalyst from rice husk for production of biodiesel. <i>Environmental Technology and Innovation</i> , 2021, 21, 101296.	6.1	46
84	Production of biodiesel from palm fatty acid distillate using sulfonated-glucose solid acid catalyst: Characterization and optimization. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1857-1864.	3.5	45
85	Treating Hyperglycemia From <i>Eryngium caeruleum</i> M. Bieb: In-vitro α -Glucosidase, Antioxidant, in-vivo Antidiabetic and Molecular Docking-Based Approaches. <i>Frontiers in Chemistry</i> , 2020, 8, 558641.	3.6	45
86	Cold flow and fuel properties of methyl oleate and palm-oil methyl ester blends. <i>Fuel</i> , 2015, 160, 238-244.	6.4	44
87	Heterogeneous calcium-based bimetallic oxide catalyzed transesterification of <i>Elaeis guineensis</i> derived triglycerides for biodiesel production. <i>Energy Conversion and Management</i> , 2017, 141, 20-27.	9.2	43
88	Synthesis, crystal structure determination, biological screening and docking studies of N 1-substituted derivatives of 2,3-dihydroquinazolin-4(1 H)-one as inhibitors of cholinesterases. <i>Bioorganic Chemistry</i> , 2017, 72, 256-267.	4.1	43
89	Synthesis of carbonaceous solid acid magnetic catalyst from empty fruit bunch for esterification of palm fatty acid distillate (PFAD). <i>Energy Conversion and Management</i> , 2019, 195, 480-491.	9.2	43
90	Supermagnetic Nano-Bifunctional Catalyst from Rice Husk: Synthesis, Characterization and Application for Conversion of Used Cooking Oil to Biodiesel. <i>Catalysts</i> , 2020, 10, 225.	3.5	43

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91	Phytochemical profiling of bioactive compounds, anti-inflammatory and analgesic potentials of <i>Habenaria digitata</i> Lindl.: Molecular docking based synergistic effect of the identified compounds. <i>Journal of Ethnopharmacology</i> , 2021, 273, 113976.	4.1	43
92	Amino acid conjugated antimicrobial drugs: Synthesis, lipophilicity- activity relationship, antibacterial and urease inhibition activity. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 140-153.	5.5	42
93	Synthesis, biological activities, and molecular docking studies of 2-mercaptobenzimidazole based derivatives. <i>Bioorganic Chemistry</i> , 2018, 80, 472-479.	4.1	41
94	Synthesis, in-vitro cholinesterase inhibition, in-vivo anticonvulsant activity and in-silico exploration of N-(4-methylpyridin-2-yl)thiophene-2-carboxamide analogs. <i>Bioorganic Chemistry</i> , 2019, 92, 103216.	4.1	41
95	Activity of Calcium Methoxide Catalyst for Synthesis of High Oleic Palm Oil Based Trimethylolpropane Triesters as Lubricant Base Stock. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5438-5442.	3.7	40
96	Ursolic Acid Hydrazide Based Organometallic Complexes: Synthesis, Characterization, Antibacterial, Antioxidant, and Docking Studies. <i>Frontiers in Chemistry</i> , 2018, 6, 55.	3.6	40
97	Recent progress in the design and synthesis of nanofibers with diverse synthetic methodologies: characterization and potential applications. <i>New Journal of Chemistry</i> , 2020, 44, 9581-9606.	2.8	40
98	Tailoring the substitution pattern of Pyrrolidine-2,5-dione for discovery of new structural template for dual COX/LOX inhibition. <i>Bioorganic Chemistry</i> , 2021, 112, 104969.	4.1	40
99	Optimization of polyol ester production by transesterification of <i>Jatropha</i> -based methyl ester with trimethylolpropane using Taguchi design of experiment. <i>Fuel</i> , 2011, 90, 2343-2345.	6.4	37
100	Investigation of Ce(III) promoter effects on the tri-metallic Pt, Pd, Ni/MgO catalyst in dry-reforming of methane. <i>RSC Advances</i> , 2016, 6, 10372-10384.	3.6	37
101	Temperature effect on tribological properties of polyol ester-based environmentally adapted lubricant. <i>Tribology International</i> , 2016, 93, 43-49.	5.9	37
102	Molecular hybridization conceded exceptionally potent quinolinyl-oxadiazole hybrids through phenyl linked thiosemicarbazide antileishmanial scaffolds: In silico validation and SAR studies. <i>Bioorganic Chemistry</i> , 2017, 71, 192-200.	4.1	37
103	Breakthrough studies of Co ₃ O ₄ supported activated carbon monolith for simultaneous SO ₂ /NO removal from flue gas. <i>Fuel Processing Technology</i> , 2018, 180, 155-165.	7.2	37
104	Synthesis of reusable biobased nano-catalyst from waste sugarcane bagasse for biodiesel production. <i>Environmental Technology and Innovation</i> , 2020, 18, 100788.	6.1	37
105	Sulfonated mesoporous ZnO catalyst for methyl esters production. <i>Journal of Cleaner Production</i> , 2017, 144, 482-491.	9.3	36
106	UHPLC-QTOF-MS/MS based phytochemical characterization and anti-hyperglycemic prospective of hydro-ethanolic leaf extract of <i>Butea monosperma</i> . <i>Scientific Reports</i> , 2020, 10, 3530.	3.3	35
107	Adsorptive removal of COD from produced water using tea waste biochar. <i>Environmental Technology and Innovation</i> , 2021, 23, 101563.	6.1	35
108	Structural Modification, <i>In Vitro</i> , <i>In Vivo</i> , <i>Ex Vivo</i> , and <i>In Silico</i> Exploration of Pyrimidine and Pyrrolidine Cores for Targeting Enzymes Associated with Neuroinflammation and Cholinergic Deficit in Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4123-4143.	3.5	35

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109	Effects of Calcination Holding Time on Properties of Wide Band Gap Willemite Semiconductor Nanoparticles by the Polymer Thermal Treatment Method. <i>Molecules</i> , 2018, 23, 873.	3.8	34
110	Exploring untapped effect of process conditions on biochar characteristics and applications. <i>Environmental Technology and Innovation</i> , 2021, 21, 101310.	6.1	34
111	Microwave-Assisted Methyl Ester Production from Palm Fatty Acid Distillate over a Heterogeneous Carbon-Based Solid Acid Catalyst. <i>Chemical Engineering and Technology</i> , 2015, 38, 1837-1844.	1.5	33
112	Sulfonated mesoporous zinc aluminate catalyst for biodiesel production from high free fatty acid feedstock using microwave heating system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 219-228.	5.3	33
113	Single-Pot Synthesis of Biodiesel using Efficient Sulfonated-Derived Tea Waste-Heterogeneous Catalyst. <i>Materials</i> , 2019, 12, 2293.	2.9	33
114	Synthesis biological screening and molecular docking studies of some tin (IV) Schiff base adducts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 65-72.	3.8	32
115	Synthesis of Biodiesel through Catalytic Transesterification of Various Feedstocks using Fast Solvothermal Technology: A Critical Review. <i>Catalysis Reviews - Science and Engineering</i> , 2015, 57, 407-435.	12.9	31
116	Synthesis of char-based acidic catalyst for methanolysis of waste cooking oil: An insight into a possible valorization pathway for the solid by-product of gasification. <i>Energy Conversion and Management</i> , 2018, 158, 186-192.	9.2	31
117	Design, synthesis and anti-bacterial studies of piperazine derivatives against drug resistant bacteria. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 224-231.	5.5	31
118	Characterization of a newly isolated cyanobacterium <i>Plectonema terebrans</i> for biotransformation of the wastewater-derived nutrients to biofuel and high-value bioproducts. <i>Journal of Water Process Engineering</i> , 2021, 39, 101702.	5.6	31
119	Development of palm-based neopentyl glycol diester as dielectric fluid and its thermal aging performance. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2051-2058.	2.9	30
120	Thermogravimetric analyses revealed the bioenergy potential of <i>Eulaliopsis binata</i> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 1237-1247.	3.6	30
121	Design, synthesis, in vitro Evaluation and docking studies on dihydropyrimidine-based urease inhibitors. <i>Bioorganic Chemistry</i> , 2017, 74, 53-65.	4.1	30
122	<p>Comparative Cholinesterase, Î±-Glucosidase Inhibitory, Antioxidant, Molecular Docking, and Kinetic Studies on Potent Succinimide Derivatives</p>. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 2165-2178.	4.3	30
123	Development and Characterization of Polypropylene Waste from Personal Protective Equipment (PPE)-Derived Char-Filled Sugar Palm Starch Biocomposite Briquettes. <i>Polymers</i> , 2021, 13, 1707.	4.5	30
124	Potential heterogeneous nano-catalyst via integrating hydrothermal carbonization for biodiesel production using waste cooking oil. <i>Chemosphere</i> , 2022, 286, 131913.	8.2	30
125	Biodiesel production from waste cooking oil using magnetic bifunctional calcium and iron oxide nanocatalysts derived from empty fruit bunch. <i>Fuel</i> , 2022, 317, 123525.	6.4	30
126	Synthesis of high oleic palm oil-based trimethylolpropane esters in a vacuum operated pulsed loop reactor. <i>Fuel</i> , 2016, 166, 560-566.	6.4	29

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127	Production of bioadsorbent from phosphoric acid pretreated palm kernel shell and coconut shell by two-stage continuous physical activation via N ₂ and air. Royal Society Open Science, 2018, 5, 180775.	2.4	29
128	Effect of molecular structure on oxidative degradation of ester based transformer oil. Tribology International, 2019, 140, 105852.	5.9	29
129	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127767.	4.7	29
130	Influence of Ce ₂ O ₃ and CeO ₂ promoters on Pd/MgO catalysts in the dry-reforming of methane. RSC Advances, 2015, 5, 81739-81752.	3.6	28
131	Design, synthesis, antibacterial activity and docking study of some new trimethoprim derivatives. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5749-5753.	2.2	28
132	Trends in Widely Used Catalysts for Fatty Acid Methyl Esters (FAME) Production: A Review. Catalysts, 2021, 11, 1085.	3.5	28
133	Microwave-assisted Biodiesel Production by Esterification of Palm Fatty Acid Distillate. Journal of Oleo Science, 2014, 63, 849-855.	1.4	27
134	Biodiesel Production Through Chemical and Biochemical Transesterification. , 2017, , 465-485.		27
135	Esterification of Palm Fatty Acid Distillate Using a Sulfonated Mesoporous CuO-ZnO Mixed Metal Oxide Catalyst. Chemical Engineering and Technology, 2017, 40, 1931-1939.	1.5	27
136	GC/MS profiling, in vitro antioxidant, antimicrobial and haemolytic activities of Smilax macrophylla leaves. Arabian Journal of Chemistry, 2017, 10, S1460-S1468.	4.9	27
137	Pharmacological Evaluation of Aldehydic-Pyrrolidinedione Against HCT-116, MDA-MB231, NIH/3T3, MCF-7 Cancer Cell Lines, Antioxidant and Enzyme Inhibition Studies. Drug Design, Development and Therapy, 2019, Volume 13, 4185-4194.	4.3	27
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