

# Ts Umer Rashid

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

330  
papers

8,282  
citations

46  
h-index

77  
g-index

350  
ext. papers

10,273  
ext. citations

4.7  
avg, IF

6.71  
L-index

#	Paper	IF	Citations
330	Wind energy and its harnessing systems <b>2022</b> , 263-323		
329	Geothermal energy production <b>2022</b> , 431-553		
328	Nonrenewable energy resources <b>2022</b> , 31-111		1
327	Hydropower energy generating systems <b>2022</b> , 325-357		
326	Renewable energy from biomass <b>2022</b> , 555-603		
325	Energy resources and utilization <b>2022</b> , 1-30		
324	Solar thermal energy and photovoltaic systems <b>2022</b> , 171-261		
323	Hybrid energy and transmission systems <b>2022</b> , 659-672		
322	Future energy options: an overview <b>2022</b> , 113-169		
321	Power generation by ocean energy <b>2022</b> , 359-430		
320	Energy and global environment <b>2022</b> , 673-753		
319	Hydrogen and fuel cells <b>2022</b> , 605-657		
318	Antioxidant and Cytotoxic Activity of a New Ferruginan A from : and Studies.. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2022</b> , 2022, 8519250	6.7	1
317	Heating effect on quality characteristics of mixed canola cooking oils.. <i>BMC Chemistry</i> , <b>2022</b> , 16, 3	3.7	1
316	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 632, 127767	5.1	9
315	Potential heterogeneous nano-catalyst via integrating hydrothermal carbonization for biodiesel production using waste cooking oil. <i>Chemosphere</i> , <b>2022</b> , 286, 131913	8.4	7
314	Pyrolysis of polypropylene plastic waste into carbonaceous char: Priority of plastic waste management amidst COVID-19 pandemic. <i>Science of the Total Environment</i> , <b>2022</b> , 803, 149911	10.2	21

313	Antioxidant Molecules Isolated from Edible Prostrate Knotweed: Rational Derivatization to Produce More Potent Molecules.. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2022</b> , 2022, 3127480	6.7	6
312	Design, Synthesis, and Bioevaluation of Indole Core Containing 2-Arylidine Derivatives of Thiazolopyrimidine as Multitarget Inhibitors of Cholinesterases and Monoamine Oxidase A/B for the Treatment of Alzheimer Disease.. <i>ACS Omega</i> , <b>2022</b> , 7, 9369-9379	3.9	3
311	Lewatit-immobilized lipase from <i>Bacillus pumilus</i> as a new catalyst for biodiesel production from tallow: Response surface optimization, fuel properties and exhaust emissions. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 160, 286-296	5.5	0
310	Rational design, synthesis, antiproliferative activity against MCF-7, MDA-MB-231 cells, estrogen receptors binding affinity, and computational study of indenopyrimidine-2,5-dione analogs for the treatment of breast cancer.. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2022</b> , 64, 128668	2.9	1
309	Biodiesel production from waste cooking oil using magnetic bifunctional calcium and iron oxide nanocatalysts derived from empty fruit bunch. <i>Fuel</i> , <b>2022</b> , 317, 123525	7.1	4
308	In Vivo Anti-Inflammatory, Analgesic, Sedative, and Muscle Relaxant Activities and Molecular Docking Analysis of Phytochemicals from <i>Euphorbia pulcherrima</i> . <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2022</b> , 2022, 1-9	2.3	0
307	Evaluation of Contemporary Computational Techniques to Optimize Adsorption Process for Simultaneous Removal of COD and TOC in Wastewater. <i>Adsorption Science and Technology</i> , <b>2022</b> , 2022, 1-16	3.6	1
306	Advances in Production of Biodiesel from Vegetable Oils and Animal Fats <b>2022</b> , 1-31		1
305	In Silico Screening of Synthetic and Natural Compounds to Inhibit the Binding Capacity of Heavy Metal Compounds against EGFR Protein of Lung Cancer. <i>BioMed Research International</i> , <b>2022</b> , 2022, 1-12 <sup>3</sup>		
304	Role of activated carbon for metal-free catalysts <b>2022</b> , 137-150		
303	In Vivo and In Vitro Biological Evaluation and Molecular Docking Studies of Compounds Isolated from <i>Micromeria biflora</i> (Buch. Ham. ex D.Don) Benth. <i>Molecules</i> , <b>2022</b> , 27, 3377	4.8	
302	3-(((1S,3S)-3-((R)-Hydroxy(4-(trifluoromethyl)phenyl)methyl)-4-oxocyclohexyl)methyl)pentane-2,4-dione: Design and Synthesis of New Stereopure Multi-Target Antidiabetic Agent. <i>Molecules</i> , <b>2022</b> , 27, 3265	4.8	3
301	Efficient Adsorption of Lead Ions from Synthetic Wastewater Using Agrowaste-Based Mixed Biomass (Potato Peels and Banana Peels). <i>Water (Switzerland)</i> , <b>2021</b> , 13, 3344	3	2
300	Conversion of Waste Polyethylene Terephthalate (PET) Polymer into Activated Carbon and Its Feasibility to Produce Green Fuel. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
299	A Novel Heterogeneous Superoxide Support-Coated Catalyst for Production of Biodiesel from Roasted and Unroasted <i>Sinapis arvensis</i> Seed Oil. <i>Catalysts</i> , <b>2021</b> , 11, 1421	4	1
298	A Novel Combined Treatment Process of Hybrid Biosorbent Nanofiltration for Effective Pb(II) Removal from Wastewater. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 3316	3	0
297	Production of Biodiesel from <i>Spirogyra elongata</i> , a Common Freshwater Green Algae with High Oil Content. <i>Sustainability</i> , <b>2021</b> , 13, 12737	3.6	2
296	Comprehensive Comparison of Hetero-Homogeneous Catalysts for Fatty Acid Methyl Ester Production from Non-Edible <i>Jatropha curcas</i> Oil. <i>Catalysts</i> , <b>2021</b> , 11, 1420	4	0

295	Low-Temperature Thermal Degradation of Disinfected COVID-19 Non-Woven Polypropylene-Based Isolation Gown Wastes into Carbonaceous Char. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
294	Antidiabetic Activity of Ficusonolide, a Triterpene Lactone from (Wall. ex Miq.): , , and Approaches. <i>ACS Omega</i> , <b>2021</b> , 6, 27351-27357	3.9	2
293	Fluoxetine and sertraline based multitarget inhibitors of cholinesterases and monoamine oxidase-A/B for the treatment of Alzheimer's disease: Synthesis, pharmacology and molecular modeling studies. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 193, 19-26	7.9	4
292	Neuroprotective potentials of selected natural edible oils using enzyme inhibitory, kinetic and simulation approaches. <i>BMC Complementary Medicine and Therapies</i> , <b>2021</b> , 21, 248	2.9	2
291	Structural Modification, , , and Exploration of Pyrimidine and Pyrrolidine Cores for Targeting Enzymes Associated with Neuroinflammation and Cholinergic Deficit in Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , <b>2021</b> , 12, 4123-4143	5.7	8
290	Bifunctional biomass-based catalyst for biodiesel production via hydrothermal carbonization (HTC) pretreatment [Synthesis, characterization and optimization. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 156, 219-230	5.5	0
289	Green photosensitisers for the degradation of selected pesticides of high risk in most susceptible food: A safer approach. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258864	3.7	
288	Crude extract and isolated bioactive compounds from <i>Notholirion thomsonianum</i> (Royale) Stapf as multitargets antidiabetic agents: in-vitro and molecular docking approaches. <i>BMC Complementary Medicine and Therapies</i> , <b>2021</b> , 21, 270	2.9	7
287	Optimization of Micro-Pollutants' Removal from Wastewater Using Agricultural Waste-Derived Sustainable Adsorbent. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	1
286	Production and Evaluation of Fractionated Tamarind Seed Oil Methyl Esters as a New Source of Biodiesel. <i>Energies</i> , <b>2021</b> , 14, 7148	3.1	2
285	Density functional theory, molecular docking and muscle relaxant, sedative, and analgesic studies of indanone derivatives isolated from. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 6488-6499	3.6	1
284	Synthesis of Michael Adducts as Key Building Blocks for Potential Analgesic Drugs: In vitro, in vivo and in silico Explorations. <i>Drug Design, Development and Therapy</i> , <b>2021</b> , 15, 1299-1313	4.4	11
283	Porosity Estimation of Mesoporous TiO <sub>2</sub> -ZnO Nanocrystalline by Artificial Neural Network Modeling. <i>Chemical Engineering and Technology</i> , <b>2021</b> , 44, 1058-1074	2	2
282	Synthesis, pharmacological evaluation and Molecular modelling studies of pregnenolone derivatives as inhibitors of human dihydrofolate reductase. <i>Steroids</i> , <b>2021</b> , 168, 108801	2.8	6
281	Development and Characterization of Polypropylene Waste from Personal Protective Equipment (PPE)-Derived Char-Filled Sugar Palm Starch Biocomposite Briquettes. <i>Polymers</i> , <b>2021</b> , 13,	4.5	17
280	Bio-Based Catalysts in Biodiesel Production <b>2021</b> , 201-248		
279	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> , <b>2021</b> , 273, 113976	5	19
278	The In Vitro $\alpha$ -Glucosidase Inhibition Activity of Various Solvent Fractions of and H-NMR Based Metabolite Identification and Molecular Docking Analysis. <i>Plants</i> , <b>2021</b> , 10,	4.5	2

277	and Studies of Flavonoids Isolated from as Potential Antidiarrheal Agents. <i>ACS Omega</i> , <b>2021</b> , 6, 15617-15624	5.2	2
276	Isolation, Biological Evaluation, and Molecular Docking Studies of Compounds from (Royle) Graham Ex Baker. <i>ACS Omega</i> , <b>2021</b> , 6, 15911-15919	3.9	1
275	Mechanistic evaluation of a novel cyclohexenone derivative's functionality against nociception and inflammation: An in-vitro, in-vivo and in-silico approach. <i>European Journal of Pharmacology</i> , <b>2021</b> , 902, 174091	5.3	7
274	A Novel Route of Mixed Catalysis for Production of Fatty Acid Methyl Esters from Potential Seed Oil Sources. <i>Catalysts</i> , <b>2021</b> , 11, 811	4	3
273	Exploring the ability of dihydropyrimidine-5-carboxamide and 5-benzyl-2,4-diaminopyrimidine-based analogues for the selective inhibition of L-tryptophan major dihydrofolate reductase. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 210, 112986	6.8	8
272	Novel vaccine design based on genomics data analysis: A review. <i>Scandinavian Journal of Immunology</i> , <b>2021</b> , 93, e12986	3.4	1
271	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> , <b>2021</b> , 137, 110638	16.2	11
270	Synthesis and characterization of bifunctional magnetic nano-catalyst from rice husk for production of biodiesel. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101296	7	15
269	Effect of pretreatment conditions on the chemical and structural characteristics of coconut and palm kernel shell: A potentially valuable precursor for eco-efficient activated carbon production. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101309	7	4
268	Exploring untapped effect of process conditions on biochar characteristics and applications. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101310	7	13
267	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> , <b>2021</b> , 39, 101702	6.7	16
266	Potential of advanced photocatalytic technology for biodiesel production from waste oil <b>2021</b> , 49-76		0
265	Nanobiocatalysts for Biodiesel Synthesis through Transesterification: A Review. <i>Catalysts</i> , <b>2021</b> , 11, 171	4	4
264	Advances in Valorization of Lignocellulosic Biomass towards Energy Generation. <i>Catalysts</i> , <b>2021</b> , 11, 3094		25
263	Properties and molecular structure of carbon quantum dots derived from empty fruit bunch biochar using a facile microwave-assisted method for the detection of Cu <sup>2+</sup> ions. <i>Optical Materials</i> , <b>2021</b> , 112, 110801	3.3	8
262	Docking-based virtual screening and identification of potential COVID-19 main protease inhibitors from brown algae. <i>South African Journal of Botany</i> , <b>2021</b> ,	2.9	3
261	Tailoring the substitution pattern of Pyrrolidine-2,5-dione for discovery of new structural template for dual COX/LOX inhibition. <i>Bioorganic Chemistry</i> , <b>2021</b> , 112, 104969	5.1	15
260	Adsorptive removal of COD from produced water using tea waste biochar. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101563	7	16

259	Synthesis of Indoles via Intermolecular and Intramolecular Cyclization by Using Palladium-Based Catalysts. <i>Catalysts</i> , <b>2021</b> , 11, 1018	4	5
258	Sedative-hypnotic effect and in silico study of dinaphthodiospyrols isolated from <i>Diospyros lotus</i> Linn. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 140, 111745	7.5	1
257	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 129015	10.3	9
256	Trends in Widely Used Catalysts for Fatty Acid Methyl Esters (FAME) Production: A Review. <i>Catalysts</i> , <b>2021</b> , 11, 1085	4	7
255	A magnetically separable acid-functionalized nanocatalyst for biodiesel production. <i>Fuel</i> , <b>2021</b> , 305, 121576	5.76	6
254	Antinociceptive, Muscle Relaxant, Sedative, and Molecular Docking Studies of Peshawaraquinone Isolated from ( <i>Wall. ex G. Don</i> ) Steenis. <i>ACS Omega</i> , <b>2021</b> , 6, 996-1002	3.9	6
253	Photocatalysis for Organic Wastewater Treatment: From the Basis to Current Challenges for Society. <i>Catalysts</i> , <b>2020</b> , 10, 1260	4	28
252	Evaluation of Cholinesterase Inhibitory Potential of Different Genotypes of , Their HPLC-UV, and Molecular Docking Analysis. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
251	Spirogyra Oil-Based Biodiesel: Response Surface Optimization of Chemical and Enzymatic Transesterification and Exhaust Emission Behavior. <i>Catalysts</i> , <b>2020</b> , 10, 1214	4	4
250	Influence of metallic species for efficient photocatalytic water disinfection: bactericidal mechanism of in vitro results using docking simulation. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 39819-39831	5.1	10
249	Optimization and blends study of heterogeneous acid catalyst-assisted esterification of palm oil industry by-product for biodiesel production. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 191592	3.3	5
248	Response Surface Methodology Approach for Optimized Biodiesel Production from Waste Chicken Fat Oil. <i>Catalysts</i> , <b>2020</b> , 10, 633	4	6
247	Kinetics and thermodynamics of synthesis of palm oil-based trimethylolpropane triester using microwave irradiation. <i>Journal of Saudi Chemical Society</i> , <b>2020</b> , 24, 552-566	4.3	6
246	SAR based in-vitro anticholinesterase and molecular docking studies of nitrogenous progesterone derivatives. <i>Steroids</i> , <b>2020</b> , 158, 108599	2.8	7
245	Supermagnetic Nano-Bifunctional Catalyst from Rice Husk: Synthesis, Characterization and Application for Conversion of Used Cooking Oil to Biodiesel. <i>Catalysts</i> , <b>2020</b> , 10, 225	4	23
244	Anti-inflammatory, Antibacterial, Toxicological Profile, and In Silico Studies of Dimeric Naphthoquinones from <i>Diospyros lotus</i> . <i>BioMed Research International</i> , <b>2020</b> , 2020, 1-10	3	10
243	Comparative Cholinesterase, $\alpha$ -Glucosidase Inhibitory, Antioxidant, Molecular Docking, and Kinetic Studies on Potent Succinimide Derivatives. <i>Drug Design, Development and Therapy</i> , <b>2020</b> , 14, 2165-2178	4.4	15
242	Study the Effect of Various Sulfonation Methods on Catalytic Activity of Carbohydrate-Derived Catalysts for Ester Production. <i>Catalysts</i> , <b>2020</b> , 10, 638	4	3

241	High Vacuum Fractional Distillation (HVFD) Approach for Quality and Performance Improvement of <i>Azadirachta indica</i> Biodiesel. <i>Energies</i> , <b>2020</b> , 13, 2858	3.1	0
240	UHPLC-QTOF-MS/MS metabolites profiling and antioxidant/antidiabetic attributes of <i>Cuscuta reflexa</i> grown on <i>Casearia tomentosa</i> : exploring phytochemicals role via molecular docking. <i>International Journal of Food Properties</i> , <b>2020</b> , 23, 918-940	3	6
239	Green Synthesis of Biodiesel Using Microbial Lipases. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 407-433	1.1	1
238	Mesoporous Acidic Catalysts Synthesis from Dual-Stage and Rising Co-Current Gasification Char: Application for FAME Production from Waste Cooking Oil. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
237	Synthesis of Lipase-Immobilized CeO <sub>2</sub> Nanorods as Heterogeneous Nano-Biocatalyst for Optimized Biodiesel Production from <i>Eruca sativa</i> Seed Oil. <i>Catalysts</i> , <b>2020</b> , 10, 231	4	13
236	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> , <b>2020</b> , 10, 3530	4.9	15
235	Synthesis of nanomagnetic sulphonated impregnated Ni/Mn/NaSiO as catalyst for esterification of palm fatty acid distillate.. <i>RSC Advances</i> , <b>2020</b> , 10, 6098-6108	3.7	9
234	Recent progress in the design and synthesis of nanofibers with diverse synthetic methodologies: characterization and potential applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 9581-9606	3.6	28
233	Palladium and Copper Catalyzed Sonogashira cross Coupling an Excellent Methodology for C-C Bond Formation over 17 Years: A Review. <i>Catalysts</i> , <b>2020</b> , 10, 443	4	44
232	Synthesis of reusable biobased nano-catalyst from waste sugarcane bagasse for biodiesel production. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 18, 100788	7	26
231	The implementation of artificial neural networks for the multivariable optimization of mesoporous NiO nanocrystalline: biodiesel application.. <i>RSC Advances</i> , <b>2020</b> , 10, 13302-13315	3.7	6
230	Fundamentals and recent progress relating to the fabrication, functionalization and characterization of mesostructured materials using diverse synthetic methodologies.. <i>RSC Advances</i> , <b>2020</b> , 10, 16431-16456	3.7	16
229	Optimization the Process of Chemically Modified Carbon Nanofiber Coated Monolith via Response Surface Methodology for CO Capture. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
228	High Oleic Pentaerythritol Tetraester Formation via Transesterification: Effect of Reaction Conditions. <i>Indonesian Journal of Chemistry</i> , <b>2020</b> , 20, 887	1.5	2
227	Antidiabetic functionality of <i>Vitex negundo</i> L. leaves based on UHPLC-QTOF-MS/MS based bioactives profiling and molecular docking insights. <i>Industrial Crops and Products</i> , <b>2020</b> , 152, 112445	5.9	14
226	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> , <b>2020</b> , 186, 111863	6.8	52
225	Preparation of Na <sub>2</sub> O supported CNTs nanocatalyst for efficient biodiesel production from waste-oil. <i>Energy Conversion and Management</i> , <b>2020</b> , 205, 112445	10.6	54
224	Valorization of solid waste biomass by inoculation for the enhanced yield of biogas. <i>Clean Technologies and Environmental Policy</i> , <b>2020</b> , 22, 513-522	4.3	19

223	Fe3O4-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> , <b>2020</b> , 13, 177	3.1	38
222	Core-shell ZnO-TiO2 hollow spheres synthesized by in-situ hydrothermal method for ester production application. <i>Renewable Energy</i> , <b>2020</b> , 151, 1076-1081	8.1	20
221	Monolith Metal-Oxide-Supported Catalysts: Sorbent for Environmental Application. <i>Catalysts</i> , <b>2020</b> , 10, 1018	4	1
220	Synthesis, in-vitro, in-vivo anti-inflammatory activities and molecular docking studies of acyl and salicylic acid hydrazide derivatives. <i>Bioorganic Chemistry</i> , <b>2020</b> , 104, 104168	5.1	22
219	PEG-assisted microwave hydrothermal growth of spherical mesoporous Zn-based mixed metal oxide nanocrystalline: Ester production application. <i>Fuel</i> , <b>2020</b> , 279, 118489	7.1	10
218	Synthesis, single-crystal X-ray diffraction, and in vitro biological evaluation of sodium, cobalt, and tin complexes of o-nitro-/o-methoxyphenylacetic acid: experimental and theoretical investigation. <i>Monatshefte Für Chemie</i> , <b>2020</b> , 151, 1727-1736	1.4	3
217	An acceleration of microwave-assisted transesterification of palm oil-based methyl ester into trimethylolpropane ester. <i>Scientific Reports</i> , <b>2020</b> , 10, 19652	4.9	2
216	Production of biodiesel over waste seashell-derived active and stable extrudate catalysts in a fixed-bed reactor. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101051	7	13
215	Synthesis of bifunctional nanocatalyst from waste palm kernel shell and its application for biodiesel production.. <i>RSC Advances</i> , <b>2020</b> , 10, 27183-27193	3.7	13
214	Utilization of Nano and Micro Particles to Enhance Drilling Mud Rheology. <i>Materials Science Forum</i> , <b>2020</b> , 1002, 435-447	0.4	0
213	Treating Hyperglycemia From M. Bieb: - ßGlucosidase, Antioxidant, Antidiabetic and Molecular Docking-Based Approaches. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 558641	5	16
212	Application of activated carbon from banana stem waste for removal of heavy metal ions in greywater using a Box-Behnken design approach. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 3363-3374	2.6	3
211	Optimization of Activated Carbon Monolith Co3O4-Based Catalyst for Simultaneous SO2/NOx Removal from Flue Gas Using Response Surface Methodology. <i>Combustion Science and Technology</i> , <b>2020</b> , 192, 786-803	1.5	5
210	Chemical Composition, Oxidative Stability, and Antioxidant Activity of Allium ampeloprasum L. (Wild Leek) Seed Oil. <i>Journal of Oleo Science</i> , <b>2020</b> , 69, 413-421	1.6	5
209	Calotropis procera: UHPLC-QTOF-MS/MS based profiling of bioactives, antioxidant and anti-diabetic potential of leaf extracts and an insight into molecular docking. <i>Journal of Food Measurement and Characterization</i> , <b>2019</b> , 13, 3206-3220	2.8	14
208	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> , <b>2019</b> , 144, 104690	6	33
207	Isolation of dihydrobenzofuran derivatives from ethnomedicinal species Polygonum barbatum as anticancer compounds. <i>Biological Research</i> , <b>2019</b> , 52, 1	7.6	42
206	Design, synthesis and anti-bacterial studies of piperazine derivatives against drug resistant bacteria. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 166, 224-231	6.8	15

205	Synthesis and Reactivities of Triphenyl Acetamide Analogs for Potential Nonlinear Optical Material Uses. <i>Symmetry</i> , <b>2019</b> , 11, 622	2.7	4
204	Esterification of Palm Fatty Acid Distillate for Biodiesel Production Catalyzed by Synthesized Kenaf Seed Cake-Based Sulfonated Catalyst. <i>Catalysts</i> , <b>2019</b> , 9, 482	4	15
203	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> , <b>2019</b> , 195, 480-491	10.6	28
202	A Review on Thermal Conversion of Plant Oil (Edible and Inedible) into Green Fuel Using Carbon-Based Nanocatalyst. <i>Catalysts</i> , <b>2019</b> , 9, 350	4	38
201	Valorization of Waste Date Seeds for Green Carbon Catalysts and Biodiesel Synthesis. <i>Sustainable Agriculture Reviews</i> , <b>2019</b> , 105-123	1.3	1
200	Differential functional theory and molecular docking studies of newly synthesized carbamates. <i>Journal of the Chinese Chemical Society</i> , <b>2019</b> , 66, 1408-1415	1.5	3
199	Regeneration/Optimization of Activated Carbon Monolith in Simultaneous SO <sub>2</sub> /NO <sub>x</sub> Removal from Flue Gas. <i>Chemical Engineering and Technology</i> , <b>2019</b> , 42, 1928-1940	2	6
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63	Green nano-catalyst for methanolysis of non-edible <i>Jatropha</i> oil. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 618-627	10.6	12
62	Application of response surface methodology (RSM) for optimizing the palm-based pentaerythritol ester synthesis. <i>Industrial Crops and Products</i> , <b>2014</b> , 62, 305-312	5.9	46

61	Carbohydrate-derived Solid Acid Catalysts for Biodiesel Production from Low-Cost Feedstocks: A Review. <i>Catalysis Reviews - Science and Engineering</i> , <b>2014</b> , 56, 187-219	12.6	46
60	Kapok oil methyl esters. <i>Biomass and Bioenergy</i> , <b>2014</b> , 66, 419-425	5.3	21
59	The effect of sulfate contents on the surface properties of iron-manganese doped sulfated zirconia catalysts. <i>Powder Technology</i> , <b>2014</b> , 253, 809-813	5.2	40
58	Production of slow release crystal fertilizer from wastewaters through struvite crystallization [A review]. <i>Arabian Journal of Chemistry</i> , <b>2014</b> , 7, 139-155	5.9	298
57	NOx removal efficiency and N2 selectivity during selective catalytic reduction processes over Al <sub>2</sub> O <sub>3</sub> supported highly cross-linked polyethylene catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 1650-1655	6.3	5
56	Transesterification reaction for synthesis of palm-based ethylhexyl ester and formulation as base oil for synthetic drilling fluid. <i>Journal of Oleo Science</i> , <b>2014</b> , 63, 497-506	1.6	16
55	Assessment of Selected Heavy Metals Uptake from Soil by Vegetation of Two Areas of District Attock, Pakistan. <i>Asian Journal of Chemistry</i> , <b>2014</b> , 26, 1063-1068	0.4	6
54	Microwave-assisted biodiesel production by esterification of palm fatty acid distillate. <i>Journal of Oleo Science</i> , <b>2014</b> , 63, 849-855	1.6	26
53	Synthesis of palm-based ethylhexyl ester as a synthetic base oil for drilling fluids using chemical transesterification. <i>Grasas Y Aceites</i> , <b>2014</b> , 65, e005	1.3	3
52	Biodiesel production from crude Jatropha Curcas oil using calcium based mixed oxide catalysts. <i>Fuel</i> , <b>2014</b> , 136, 244-252	7.1	67
51	Production of biodiesel from non-edible Jatropha curcas oil via transesterification using Bi <sub>2</sub> O <sub>3</sub> / Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 1257-1262	10.6	96
50	Detection of aflatoxins and zearalenone contamination in wheat derived products. <i>Food Control</i> , <b>2014</b> , 35, 223-226	6.2	36
49	Algal Biomass Production Using Waste Water <b>2014</b> , 307-327		2
48	CeO <sub>2</sub> /BiO <sub>2</sub> supported nickel catalysts for dry reforming of methane toward syngas production. <i>Applied Catalysis A: General</i> , <b>2013</b> , 468, 359-369	5.1	67
47	Biochar production from waste rubber-wood-sawdust and its potential use in C sequestration: Chemical and physical characterization. <i>Industrial Crops and Products</i> , <b>2013</b> , 44, 18-24	5.9	192
46	Antimicrobial Potential of Methanolic Extract and Various Fractions of Jatropha curcas Roots. <i>Asian Journal of Chemistry</i> , <b>2013</b> , 25, 7477-7480	0.4	2
45	Chemical Analysis, Cytotoxicity and Antimicrobial Studies by Snapdragon: A Medicinal Plant. <i>Asian Journal of Chemistry</i> , <b>2013</b> , 25, 5479-5482	0.4	2
44	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> , <b>2013</b> , 456, 182-187	5.1	67

43	Biodiesel from <i>Citrus reticulata</i> (mandarin orange) seed oil, a potential non-food feedstock. <i>Industrial Crops and Products</i> , <b>2013</b> , 45, 355-359	5.9	75
42	Antibacterial, Cytotoxic Studies and Characterization of Some Newly Synthesized Symmetrical N <sub>3</sub> , N <sub>3</sub> '-Bis(disubstituted)isophthalyl-bis(thioureas) and Their Cu(II) and Ni(II) Complexes. <i>Journal of Chemistry</i> , <b>2013</b> , 2013, 1-8	2.3	1
41	Epoxidation of methyl esters derived from <i>Jatropha</i> oil: An optimization study. <i>Grasas Y Aceites</i> , <b>2013</b> , 64, 103-114	1.3	15
40	Characterization of Newly Synthesized ZrFe <sub>2</sub> O <sub>5</sub> Nanomaterial and Investigations of Its Tremendous Photocatalytic Properties under Visible Light Irradiation. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-6	3.2	8
39	Design and synthesis of arylthiophene-2-carbaldehydes via Suzuki-Miyaura reactions and their biological evaluation. <i>Molecules</i> , <b>2013</b> , 18, 14711-25	4.8	19
38	Activated Carbon from Various Agricultural Wastes by Chemical Activation with KOH: Preparation and Characterization. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2013</b> , 7, 708-714	1.4	41
37	Evaluation of Antioxidant and Cytotoxicity Studies of <i>Clerodendrum inerme</i> . <i>Asian Journal of Chemistry</i> , <b>2013</b> , 25, 7457-7462	0.4	18
36	Antioxidant, Antimicrobial, Cytotoxicity and HPLC Studies of <i>Sophora mollis</i> . <i>Asian Journal of Chemistry</i> , <b>2013</b> , 25, 10519-10525	0.4	2
35	Efficient synthesis of 2-amino-6-arylbenzothiazoles via Pd(0) Suzuki cross coupling reactions: potent urease enzyme inhibition and nitric oxide scavenging activities of the products. <i>Molecules</i> , <b>2013</b> , 18, 8845-57	4.8	15
34	Efficient PPA-SiO <sub>2</sub> -catalyzed synthesis of Enaminones under solvent-free conditions. <i>Molecules</i> , <b>2013</b> , 18, 15182-92	4.8	6
33	Dynamic modeling of reversible methanolysis of <i>Jatropha curcas</i> oil to biodiesel. <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 268385	2.2	2
32	Activity of Calcium Methoxide Catalyst for Synthesis of High Oleic Palm Oil Based Trimethylolpropane Triesters as Lubricant Base Stock. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5438-5442	3.9	35
31	Synthesis of palm oil-based trimethylolpropane ester as potential biolubricant: Chemical kinetics modeling. <i>Chemical Engineering Journal</i> , <b>2012</b> , 200-202, 532-540	14.7	50
30	Effects of experimental variables on conversion of cockle shell to calcium oxide using thermal gravimetric analysis. <i>Journal of Cleaner Production</i> , <b>2012</b> , 37, 394-397	10.3	13
29	Green synthesis of silver nanoparticles through reduction with <i>Solanum xanthocarpum</i> L. berry extract: characterization, antimicrobial and urease inhibitory activities against <i>Helicobacter pylori</i> . <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 9923-41	6.3	210
28	Asymmetric synthesis of the carbon-14-labeled selective glucocorticoid receptor modulator using cinchona alkaloid catalyzed addition of 6-bromoindole to ethyl trifluoropyruvate. <i>Molecules</i> , <b>2012</b> , 17, 6507-18	4.8	2
27	The kinetics of epoxidation of trimethylolpropane ester. <i>European Journal of Lipid Science and Technology</i> , <b>2012</b> , 114, 816-822	3	10
26	Synthesis and characterization of calcium methoxide as heterogeneous catalyst for trimethylolpropane esters conversion reaction. <i>Applied Catalysis A: General</i> , <b>2012</b> , 425-426, 184-190	5.1	47

25	Comparative study of the methanolysis and ethanolysis of Maize oil using alkaline catalysts. <i>Grasas Y Aceites</i> , <b>2012</b> , 63, 35-43	1.3	22
24	Response Surface Methodology: An Emphatic Tool for Optimized Biodiesel Production Using Rice Bran and Sunflower Oils. <i>Energies</i> , <b>2012</b> , 5, 3307-3328	3.1	46
23	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> , <b>2012</b> , 17, 6491-506	4.8	40
22	In vitro antimicrobial, antioxidant, cytotoxicity and GC-MS analysis of <i>Mazus goodenifolius</i> . <i>Molecules</i> , <b>2012</b> , 17, 14275-87	4.8	39
21	Improvement in the water retention characteristics of sandy loam soil using a newly synthesized poly(acrylamide-co-acrylic acid)/AlZnFe <sub>2</sub> O <sub>4</sub> superabsorbent hydrogel nanocomposite material. <i>Molecules</i> , <b>2012</b> , 17, 9397-412	4.8	52
20	Effects of a novel poly (AA-co-AAm)/AlZnFe <sub>2</sub> O <sub>4</sub> /potassium humate superabsorbent hydrogel nanocomposite on water retention of sandy loam soil and wheat seedling growth. <i>Molecules</i> , <b>2012</b> , 17, 12587-602	4.8	13
19	Muskmelon ( <i>Cucumis melo</i> ) seed oil: A potential non-food oil source for biodiesel production. <i>Energy</i> , <b>2011</b> , 36, 5632-5639	7.9	52
18	Biodiesel from Milo ( <i>Thespesia populnea</i> L.) seed oil. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 4034-4039	5.3	69
17	Fatty acids of <i>Thespesia populnea</i> : Mass spectrometry of picolinyl esters of cyclopropene fatty acids. <i>European Journal of Lipid Science and Technology</i> , <b>2011</b> , 113, 980-984	3	16
16	Application of response surface methodology for optimizing transesterification of <i>Moringa oleifera</i> oil: Biodiesel production. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 3034-3042	10.6	114
15	Optimization of polyol ester production by transesterification of <i>Jatropha</i> -based methyl ester with trimethylolpropane using Taguchi design of experiment. <i>Fuel</i> , <b>2011</b> , 90, 2343-2345	7.1	33
14	Okra ( <i>Hibiscus esculentus</i> ) seed oil for biodiesel production. <i>Applied Energy</i> , <b>2010</b> , 87, 779-785	10.7	118
13	Optimization of alkaline transesterification of rice bran oil for biodiesel production using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1364-1370	3.5	58
12	Lubricant properties of <i>Moringa</i> oil using thermal and tribological techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 96, 999-1008	4.1	57
11	Evaluation of biodiesel obtained from cottonseed oil. <i>Fuel Processing Technology</i> , <b>2009</b> , 90, 1157-1163	7.2	200
10	Optimization of Base Catalytic Methanolysis of Sunflower ( <i>Helianthus annuus</i> ) Seed Oil for Biodiesel Production by Using Response Surface Methodology. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 1719-1726	3.9	47
9	Essential oil composition of commercial black tea ( <i>Camellia sinensis</i> ). <i>International Journal of Food Science and Technology</i> , <b>2008</b> , 43, 346-350	3.8	2
8	Production of Biodiesel through Base-Catalyzed Transesterification of Safflower Oil Using an Optimized Protocol. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 1306-1312	4.1	99

7	Moringa oleifera oil: a possible source of biodiesel. <i>Bioresource Technology</i> , <b>2008</b> , 99, 8175-9	11	354
6	Production of sunflower oil methyl esters by optimized alkali-catalyzed methanolysis. <i>Biomass and Bioenergy</i> , <b>2008</b> , 32, 1202-1205	53	182
5	Production of biodiesel through optimized alkaline-catalyzed transesterification of rapeseed oil. <i>Fuel</i> , <b>2008</b> , 87, 265-273	71	336
4	Determination of Metabolite of Aspirin (Salicylic Acid) by Colorimetric Method in Human Urine. <i>Pakistan Journal of Biological Sciences</i> , <b>2006</b> , 9, 1004-1008	08	2
3	Characterization of Moringa oleifera seed oil from drought and irrigated regions of Punjab, Pakistan. <i>Grasas Y Aceites</i> , <b>2006</b> , 57,	13	40
2	Synthesis of magnetic basic palm kernel shell catalyst for biodiesel production and characterisation and optimisation by Taguchi method. <i>Applied Nanoscience (Switzerland)</i> ,1	33	2
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