

Mohammad Rehan

List of Publications by Year in descending order

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97
papers

6,379
citations

70961

41
h-index

69108

77
g-index

102
all docs

102
docs citations

102
times ranked

5993
citing authors

#	ARTICLE	IF	CITATIONS
1	Microorganism-mediated algal biomass processing for clean products manufacturing: Current status, challenges and future outlook. <i>Fuel</i> , 2022, 311, 122612.	3.4	13
2	Sustainable microalgal biomass valorization to bioenergy: Key challenges and future perspectives. <i>Chemosphere</i> , 2022, 296, 133812.	4.2	18
3	Biofuel supply chain management in the circular economy transition: An inclusive knowledge map of the field. <i>Chemosphere</i> , 2022, 296, 133968.	4.2	40
4	Sustainability Evaluation of Polyhydroxyalkanoate Production from Slaughterhouse Residues Utilising Energy Accounting. <i>Polymers</i> , 2022, 14, 118.	2.0	4
5	Analysis of the Reaction Layer Formed during Sapphire–Sapphire Brazing Using a Ag–Cu–Ti Filler Metal for Gas-Pressure Sensors. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2405-2412.	2.0	0
6	Analysis and Modeling of Air Pollution in Extreme Meteorological Conditions: A Case Study of Jeddah, the Kingdom of Saudi Arabia. <i>Toxics</i> , 2022, 10, 376.	1.6	2
7	Evaluation of date seed (<i>Phoenix dactylifera</i> L.) oil as crop base stock for environment friendly industrial lubricants. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 559-568.	2.9	4
8	Gasification of municipal solid waste blends with biomass for energy production and resources recovery: Current status, hybrid technologies and innovative prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 136, 110375.	8.2	134
9	Exergetic, exergoeconomic, and exergoenvironmental aspects of an industrial-scale molasses-based ethanol production plant. <i>Energy Conversion and Management</i> , 2021, 227, 113637.	4.4	78
10	Biodiesel production from novel non-edible caper (<i>Capparis spinosa</i> L.) seeds oil employing Cu–Ni doped ZrO ₂ catalyst. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110558.	8.2	57
11	Mechanism and role of seeded native grasses to immobilize nitrogen on harvested blanket peat forests for protection of water courses. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24756-24770.	2.7	0
12	Production of high quality biodiesel from novel non-edible <i>Raphanus raphanistrum</i> L. seed oil using copper modified montmorillonite clay catalyst. <i>Environmental Research</i> , 2021, 193, 110398.	3.7	47
13	Development of biomass-derived biochar for agronomic and environmental remediation applications. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 339-361.	2.9	23
14	Black Hole-Inspired Optimal Design of Biomethane Liquefaction Process for Small-Scale Applications. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	8
15	Determination of Kinetic and Thermodynamic Parameters of Pyrolysis of Coal and Sugarcane Bagasse Blends Pretreated by Ionic Liquid: A Step towards Optimization of Energy Systems. <i>Energies</i> , 2021, 14, 2544.	1.6	6
16	Process Systems Engineering Evaluation of Prospective Working Fluids for Organic Rankine Cycles Facilitated by Biogas Combustion Flue Gases. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	2
17	Emerging challenges of air pollution and particulate matter in China, India, and Pakistan and mitigating solutions. <i>Journal of Hazardous Materials</i> , 2021, 416, 125851.	6.5	64
18	Dual production of hydrogen and biochar from industrial effluent containing phenolic compounds. <i>Fuel</i> , 2021, 301, 121087.	3.4	35

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19	New developments in sustainable waste-to-energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111581.	8.2	12
20	Editorial: Nanocatalysts in Biofuel Process Optimization. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	0
21	Microbial and Biotechnological Advancement in Biogas Production. , 2021, , 31-64.		0
22	Conductive Polymers and Their Nanocomposites as Adsorbents in Environmental Applications. <i>Polymers</i> , 2021, 13, 3810.	2.0	33
23	Deciphering the effects of temperature on bio-methane generation through anaerobic digestion. <i>Environmental Science and Pollution Research</i> , 2020, 27, 29766-29777.	2.7	4
24	Energy and resource recovery through integrated sustainable waste management. <i>Applied Energy</i> , 2020, 261, 114372.	5.1	20
25	Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions. <i>Journal of Environmental Management</i> , 2020, 256, 109924.	3.8	54
26	Novel Poly Deep Eutectic Solvents Based Supported Liquid Membranes for CO ₂ Capture. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	23
27	CO ₂ utilization: Turning greenhouse gas into fuels and valuable products. <i>Journal of Environmental Management</i> , 2020, 260, 110059.	3.8	101
28	Determining key issues in life-cycle assessment of waste biorefineries. , 2020, , 515-555.		2
29	Assessment of personal protective equipment use and occupational exposures in small industries in Jeddah: Health implications for workers. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 653-659.	1.8	45
30	Conversion of Food Waste to Fermentation Products. , 2019, , 501-509.		12
31	Editorial: Waste Biorefineries: Future Energy, Green Products and Waste Treatment. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	24
32	Waste Biomass Utilization for Value-added Green Products. <i>Current Organic Chemistry</i> , 2019, 23, 1497-1498.	0.9	9
33	Development of novel MnO ₂ coated carbon felt cathode for microbial electroreduction of CO ₂ to biofuels. <i>Journal of Environmental Management</i> , 2019, 249, 109376.	3.8	34
34	Advances in nano-catalysts based biodiesel production from non-food feedstocks. <i>Journal of Environmental Management</i> , 2019, 249, 109316.	3.8	106
35	Towards the development of a biobased economy in Europe and India. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 779-799.	5.1	46
36	Recent updates on the production and upgrading of bio-crude oil from microalgae. <i>Bioresource Technology Reports</i> , 2019, 7, 100216.	1.5	54

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37	Synthesis of Uniform Mesoporous Zeolite ZSM-5 Catalyst for Friedel-Crafts Acylation. ChemEngineering, 2019, 3, 35.	1.0	22
38	Sustainable production of bioenergy from novel non-edible seed oil (Prunus cerasoides) using bimetallic impregnated montmorillonite clay catalyst. Renewable and Sustainable Energy Reviews, 2019, 109, 321-332.	8.2	69
39	Catalytic Pyrolysis of Plastic Waste: Moving Toward Pyrolysis Based Biorefineries. Frontiers in Energy Research, 2019, 7, .	1.2	242
40	Potential of electronic waste recycling in Gulf Cooperation Council states: an environmental and economic analysis. Environmental Science and Pollution Research, 2019, 26, 35610-35619.	2.7	18
41	A magnetically separable SO ₄ /Fe-Al-TiO ₂ solid acid catalyst for biodiesel production from waste cooking oil. Applied Catalysis B: Environmental, 2018, 234, 268-278.	10.8	222
42	Development of biochar as fuel and catalyst in energy recovery technologies. Journal of Cleaner Production, 2018, 188, 477-488.	4.6	178
43	Effect of advanced catalysts on tire waste pyrolysis oil. Chemical Engineering Research and Design, 2018, 116, 542-552.	2.7	63
44	Long-term desalinated water demand and investment requirements: a case study of Riyadh. Journal of Water Reuse and Desalination, 2018, 8, 432-446.	1.2	5
45	Untapped conversion of plastic waste char into carbon-metal LDOs for the adsorption of Congo red. Journal of Colloid and Interface Science, 2018, 511, 402-410.	5.0	92
46	A Case Study of Sustainable Construction Waste Management in Saudi Arabia. Waste and Biomass Valorization, 2018, 9, 2541-2555.	1.8	33
47	Waste to biodiesel: A preliminary assessment for Saudi Arabia. Bioresource Technology, 2018, 250, 17-25.	4.8	95
48	Pyrolysis of Compact Disc (CD) Case Wastes to Produce Liquid Fuel as a Renewable Source of Electricity Generation. Energy Procedia, 2018, 145, 484-489.	1.8	2
49	Polygeneration system integrated with small non-wood pulp mills for substitute natural gas production. Applied Energy, 2018, 224, 636-646.	5.1	10
50	New trends in improving gasoline quality and octane through naphtha isomerization: a short review. Applied Petrochemical Research, 2018, 8, 131-139.	1.3	33
51	CO ₂ capture and storage: A way forward for sustainable environment. Journal of Environmental Management, 2018, 226, 131-144.	3.8	158
52	Energy generation through bioelectrochemical degradation of pentachlorophenol in microbial fuel cell. RSC Advances, 2018, 8, 20726-20736.	1.7	32
53	Wastewater Biorefinery Based on the Microbial Electrolysis Cell: Opportunities and Challenges. , 2018, , 347-374.		6
54	Towards nanotechnology-based biofuel industry. Biofuel Research Journal, 2018, 5, 798-799.	7.2	86

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55	Developing waste biorefinery in Makkah: A way forward to convert urban waste into renewable energy. <i>Applied Energy</i> , 2017, 186, 189-196.	5.1	175
56	Effect of zeolite catalysts on pyrolysis liquid oil. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 162-175.	1.9	108
57	Biodiesel production from used cooking oil using a novel surface functionalised TiO ₂ nano-catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 297-310.	10.8	175
58	Effect of co-substrates on biogas production and anaerobic decomposition of pentachlorophenol. <i>Bioresource Technology</i> , 2017, 238, 492-501.	4.8	32
59	Waste biorefineries: Enabling circular economies in developing countries. <i>Bioresource Technology</i> , 2017, 241, 1101-1117.	4.8	369
60	Biomass conservation using an optimised drying process for energy Sorghum Bagasse. <i>Renewable Energy Focus</i> , 2017, 19-20, 1-7.	2.2	3
61	Plastic waste to liquid oil through catalytic pyrolysis using natural and synthetic zeolite catalysts. <i>Waste Management</i> , 2017, 69, 66-78.	3.7	216
62	Microbial electrolysis cells for hydrogen production and urban wastewater treatment: A case study of Saudi Arabia. <i>Applied Energy</i> , 2017, 185, 410-420.	5.1	130
63	Waste-to-Hydrogen Energy in Saudi Arabia: Challenges and Perspectives. , 2017, , 237-252.		29
64	Effect of plastic waste types on pyrolysis liquid oil. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 239-252.	1.9	303
65	Waste to Energy: A Case Study of Madinah City. <i>Energy Procedia</i> , 2017, 142, 688-693.	1.8	24
66	Energy, Economic and Environmental Savings by Waste Recycling: A Case Study of Madinah City. <i>Energy Procedia</i> , 2017, 142, 910-915.	1.8	8
67	Gasification Integrated with Small Chemical Pulp Mills for Fuel and Energy Production. <i>Energy Procedia</i> , 2017, 142, 977-983.	1.8	10
68	Environmental and Economic Benefits of Recovered Paper: A Case Study of Saudi Arabia. <i>Energy Procedia</i> , 2017, 142, 3753-3758.	1.8	8
69	Energy Savings in CO ₂ Capture System through Intercooling Mechanism. <i>Energy Procedia</i> , 2017, 142, 3683-3688.	1.8	3
70	Key Issues in Microalgae Biofuels: A Short Review. <i>Energy Procedia</i> , 2017, 142, 898-903.	1.8	40
71	Fruit Waste to Energy through Open Fermentation. <i>Energy Procedia</i> , 2017, 142, 904-909.	1.8	13
72	Assessment of Bioenergy Production from Solid Waste. <i>Energy Procedia</i> , 2017, 142, 655-660.	1.8	7

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73	Workplace Safety and Health Conditions and Facilities in Small Industries in Jeddah, Saudi Arabia. <i>Journal of Safety Studies</i> , 2017, 3, 37.	0.2	10
74	Occupational Musculoskeletal Disorders among Taxi Industry Workers in Jeddah, Saudi Arabia. <i>Biosciences, Biotechnology Research Asia</i> , 2017, 14, 593-606.	0.2	11
75	Assessment of Occupational Health and Safety in Motor Vehicle Repair Workshops in Jeddah. <i>Biosciences, Biotechnology Research Asia</i> , 2017, 14, 901-913.	0.2	5
76	Biodiesel production potential from fat fraction of municipal waste in Makkah. <i>PLoS ONE</i> , 2017, 12, e0171297.	1.1	57
77	Analysing PM2.5 and its Association with PM10 and Meteorology in the Arid Climate of Makkah, Saudi Arabia. <i>Aerosol and Air Quality Research</i> , 2017, 17, 453-464.	0.9	68
78	Brominated and organophosphate flame retardants in indoor dust of Jeddah, Kingdom of Saudi Arabia: Implications for human exposure. <i>Science of the Total Environment</i> , 2016, 569-570, 269-277.	3.9	107
79	Human lead (Pb) exposure via dust from different land use settings of Pakistan: A case study from two urban mountainous cities. <i>Chemosphere</i> , 2016, 155, 259-265.	4.2	46
80	Waste to energy potential: A case study of Saudi Arabia. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 328-340.	8.2	341
81	Influence of temperature and reaction time on the conversion of polystyrene waste to pyrolysis liquid oil. <i>Waste Management</i> , 2016, 58, 250-259.	3.7	148
82	Waste-to-energy and recycling value for developing integrated solid waste management plan in Lahore. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 569-579.	1.8	101
83	Evaluation of natural gas hydrates as a future methane source. <i>Petroleum Science and Technology</i> , 2016, 34, 1204-1210.	0.7	52
84	The Energy and Value-Added Products from Pyrolysis of Waste Plastics. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 333-355.	0.7	35
85	Pyrolytic liquid fuel: A source of renewable electricity generation in Makkah. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 2598-2603.	1.2	49
86	Determination of wax content in crude oil. <i>Petroleum Science and Technology</i> , 2016, 34, 799-804.	0.7	51
87	Catalytic pyrolysis of plastic waste: A review. <i>Chemical Engineering Research and Design</i> , 2016, 102, 822-838.	2.7	599
88	The potential of Saudi Arabian natural zeolites in energy recovery technologies. <i>Energy</i> , 2016, 108, 162-171.	4.5	90
89	Analysis of Physiochemical Parameters to Evaluate the Drinking Water Quality in the State of Perak, Malaysia. <i>Journal of Chemistry</i> , 2015, 2015, 1-10.	0.9	166
90	An in situ EDXRD kinetic and mechanistic study of the hydrothermal crystallization of TiO ₂ nanoparticles from nitric acid peptized sol-gel. <i>CrystEngComm</i> , 2015, 17, 2013-2020.	1.3	4

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91	Synthesis of Zinc Carbonate Hydroxide Nanoparticles Using Microemulsion Process. Procedia Engineering, 2015, 102, 346-355.	1.2	16
92	Hydrothermal Synthesis of Zinc Carbonate Hydroxide Nanoparticles. Procedia Engineering, 2015, 102, 356-361.	1.2	24
93	Investigation of the Effect of Hydroxypropyl Methylcellulose on the Phase Transformation and Release Profiles of Carbamazepine-Nicotinamide Cocrystal. Pharmaceutical Research, 2014, 31, 2312-2325.	1.7	32
94	Hydrothermal synthesis of titanium dioxide nanoparticles studied employing in situ energy dispersive X-ray diffraction. CrystEngComm, 2011, 13, 3725.	1.3	59
95	Recent Trends in Gasification Based Waste-to-Energy. , 0, , .		11
96	Potential of Saudi natural clay as an effective adsorbent in heavy metals removal from wastewater. , 0, 158, 140-151.		15
97	Tribological evaluation of date seed oil and castor oil blends with halloysite nanotube additives as environment friendly bio-lubricants. Biomass Conversion and Biorefinery, 0, , 1.	2.9	13