Yh Teoh

List of Publications by Year in descending order

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125 papers	4,344 citations	81900 39 h-index	138484 58 g-index
125 all docs	125 docs citations	125 times ranked	2818 citing authors

#	Article	IF	Citations
1	Catalytic reforming of oxygenated hydrocarbons for the hydrogen production: an outlook. Biomass Conversion and Biorefinery, 2023, 13, 8441-8464.	4.6	27
2	Synthesis and Characterization of High-Efficiency Halide Perovskite Nanomaterials for Light-Absorbing Applications. Industrial & Engineering Chemistry Research, 2023, 62, 4494-4502.	3.7	17
3	Effect of acid catalysts on hydrothermal carbonization of Malaysian oil palm residues (leaves, fronds,) Tj ETQq1 1 0.784314 rgBT /Ove	4.6	89
4	Tailor made Functional Zeolite as Sustainable Potential Candidates for Catalytic Cracking of Heavy Hydrocarbons. Catalysis Letters, 2022, 152, 732-744.	2.6	14
5	Fabrication and characterization of carbon-based nanocomposite membranes for packaging application. Polymer Bulletin, 2022, 79, 5019-5040.	3.3	18
6	Waste sugarcane bagasseâ€derived nanocatalyst for microwaveâ€assisted transesterification: Thermal, kinetic and optimization study. Biofuels, Bioproducts and Biorefining, 2022, 16, 122-141.	3.7	23
7	Supercritical water oxidation of phenol and process enhancement with in situ formed Fe2O3 nano catalyst. Environmental Science and Pollution Research, 2022, 29, 61896-61904.	5.3	11
8	Two dimensional MXenes as emerging paradigm for adsorptive removal of toxic metallic pollutants from wastewater. Chemosphere, 2022, 287, 132319.	8.2	84
9	Environmental and health impacts of spraying COVID-19 disinfectants with associated challenges. Environmental Science and Pollution Research, 2022, 29, 85648-85657.	5.3	15
10	Green synthesis of zero-valent iron nanoparticles and loading effect on activated carbon for furfural adsorption. Chemosphere, 2022, 287, 132114.	8.2	75
11	Sustainable nanotechnology based wastewater treatment strategies: achievements, challenges and future perspectives. Chemosphere, 2022, 288, 132606.	8.2	41
12	Esterases asÂemerging biocatalysts: Mechanistic insights, genomic and metagenomic, immobilization, and biotechnological applications. Biotechnology and Applied Biochemistry, 2022, 69, 2176-2194.	3.1	9
13	Nano-structured dynamic Schiff base cues as robust self-healing polymers for biomedical and tissue engineering applications: a review. Environmental Chemistry Letters, 2022, 20, 495-517.	16.2	18
14	Biosynthesis of SiO2 nanoparticles using extract of Nerium oleander leaves for the removal of tetracycline antibiotic. Chemosphere, 2022, 287, 132453.	8.2	62
15	Microbial fuel cells a state-of-the-art technology for wastewater treatment and bioelectricity generation. Environmental Research, 2022, 204, 112387.	7.5	47
16	Energy, exergy, thermoeconomic and sustainability assessment of tire pyrolysis oil in common rail direct injection diesel engine. Fuel, 2022, 311, 122622.	6.4	26
17	Adsorptive remediation of naproxen from water using in-house developed hybrid material functionalized with iron oxide. Chemosphere, 2022, 289, 133222.	8.2	17
18	Microbial adaptation to different environmental conditions: molecular perspective of evolved genetic and cellular systems. Archives of Microbiology, 2022, 204, 144.	2.2	48

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19	Exploring Marine as a Rich Source of Bioactive Peptides: Challenges and Opportunities from Marine Pharmacology. Marine Drugs, 2022, 20, 208.	4.6	14
20	Synthesis of green nano sorbents for simultaneous preconcentration and recovery of heavy metals from water. Chemosphere, 2022, 296, 133971.	8.2	15
21	Nanotechnology-based controlled release of sustainable fertilizers. A review. Environmental Chemistry Letters, 2022, 20, 2709-2726.	16.2	42
22	Superior removal of humic acid from aqueous stream using novel calf bones charcoal nanoadsorbent in a reversible process. Chemosphere, 2022, 301, 134673.	8.2	15
23	Phytoremediation of heavy metals in soil and water: An eco-friendly, sustainable and multidisciplinary approach. Chemosphere, 2022, 303, 134788.	8.2	81
24	Palm biodiesel spray and combustion characteristics in a new micro gas turbine combustion chamber design. Energy, 2022, 254, 124335.	8.8	11
25	Composite of methyl polysiloxane and avocado biochar as adsorbent for removal of ciprofloxacin from waters. Environmental Science and Pollution Research, 2022, 29, 74823-74840.	5.3	7
26	Removal of micropollutants from municipal wastewater using different types of activated carbons. Journal of Environmental Management, 2021, 278, 111302.	7.8	80
27	Synthesis and Characterization of PVA/Starch Hydrogel Membranes Incorporating Essential Oils Aimed to be Used in Wound Dressing Applications. Journal of Polymers and the Environment, 2021, 29, 156-174.	5.0	107
28	A Comprehensive Review on Oil Extraction and Biodiesel Production Technologies. Sustainability, 2021, 13, 788.	3.2	85
29	Mimic Enzyme Based Cellulose Nanocrystals/PVA Nanocomposite Membranes for Enrichment of Biogas as a Natural Gas Substitute. Journal of Polymers and the Environment, 2021, 29, 2598-2608.	5.0	36
30	An Experimental Investigation on the Effect of Ferrous Ferric Oxide Nano-Additive and Chicken Fat Methyl Ester on Performance and Emission Characteristics of Compression Ignition Engine. Symmetry, 2021, 13, 265.	2.2	13
31	Impacts of Different Tillage Practices on Soil Water Infiltration for Sustainable Agriculture. Sustainability, 2021, 13, 3155.	3.2	19
32	Sustainable Conversion of Renewable Energy Sources. Sustainability, 2021, 13, 2940.	3.2	33
33	Activation of Nano Kaolin Clay for Bio-Glycerol Conversion to a Valuable Fuel Additive. Sustainability, 2021, 13, 2631.	3.2	12
34	Current Status and Potential of Tire Pyrolysis Oil Production as an Alternative Fuel in Developing Countries. Sustainability, 2021, 13, 3214.	3.2	39
35	Tribological Behaviour and Lubricating Mechanism of Tire Pyrolysis Oil. Coatings, 2021, 11, 386.	2.6	13
36	Fuel Injection Responses and Particulate Emissions of a CRDI Engine Fueled with Cocos nucifera Biodiesel. Sustainability, 2021, 13, 4930.	3.2	8

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37	The Potential of Sustainable Biomass Producer Gas as a Waste-to-Energy Alternative in Malaysia. Sustainability, 2021, 13, 3877.	3.2	10
38	Experimental Investigations of a Solar Water Treatment System for Remote Desert Areas of Pakistan. Water (Switzerland), 2021, 13, 1070.	2.7	8
39	Impact of COVID-related lockdowns on environmental and climate change scenarios. Environmental Research, 2021, 195, 110839.	7.5	65
40	Socio-Economic and Environmental Impacts of Biomass Valorisation: A Strategic Drive for Sustainable Bioeconomy. Sustainability, 2021, 13, 4200.	3.2	32
41	Potential of Waste Cooking Oil Biodiesel as Renewable Fuel in Combustion Engines: A Review. Energies, 2021, 14, 2565.	3.1	43
42	Coupling of electrocoagulation and powder activated carbon for the treatment of sustainable wastewater. Environmental Science and Pollution Research, 2021, 28, 48505-48516.	5.3	31
43	Preparation of active coke combining coal with biomass and its denitrification performance. Journal of Iron and Steel Research International, 2021, 28, 1203-1211.	2.8	6
44	Covalent organic frameworks as robust materials for mitigation of environmental pollutants. Chemosphere, 2021, 270, 129523.	8.2	92
45	Optimization of Fuel Injection Parameters of Moringa oleifera Biodiesel-Diesel Blend for Engine-Out-Responses Improvements. Symmetry, 2021, 13, 982.	2.2	10
46	Potential of tire pyrolysis oil as an alternate fuel for diesel engines: A review. Journal of the Energy Institute, 2021, 96, 205-221.	5.3	58
47	Tribological Behaviour of Graphene Nanoplatelets as Additive in Pongamia Oil. Coatings, 2021, 11, 732.	2.6	10
48	Energy evaluation and environmental impact assessment of transportation fuels in Pakistan. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100081.	6.1	57
49	Effect of Thermal Barrier Coating on the Performance and Emissions of Diesel Engine Operated with Conventional Diesel and Palm Oil Biodiesel. Coatings, 2021, 11, 692.	2.6	12
50	Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling. Fuel, 2021, 293, 120485.	6.4	78
51	A Study of Hot Climate Low-Cost Low-Energy Eco-Friendly Building Envelope with Embedded Phase Change Material. Energies, 2021, 14, 3544.	3.1	5
52	A Review on Recycling and Reutilization of Blast Furnace Dust as a Secondary Resource. Journal of Sustainable Metallurgy, 2021, 7, 340-357.	2.3	30
53	Valorisation and emerging perspective of biomass based waste-to-energy technologies and their socio-environmental impact: A review. Journal of Environmental Management, 2021, 287, 112257.	7.8	70
54	Jatropha Curcas Biodiesel: A Lucrative Recipe for Pakistanâ€™s Energy Sector. Processes, 2021, 9, 1129.	2.8	16

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55	The potential of sustainable biogas production from biomass waste for power generation in Pakistan. Journal of Cleaner Production, 2021, 307, 127250.	9.3	60
56	Integrated Optimal Design of Permanent Magnet Synchronous Generator for Smart Wind Turbine Using Genetic Algorithm. Energies, 2021, 14, 4642.	3.1	13
57	Nano and micro architectured cues as smart materials to mitigate recalcitrant pharmaceutical pollutants from wastewater. Chemosphere, 2021, 274, 129785.	8.2	53
58	Metal Organic Frameworks Derived Sustainable Polyvinyl Alcohol/Starch Nanocomposite Films as Robust Materials for Packaging Applications. Polymers, 2021, 13, 2307.	4.5	60
59	Cellulose acetate-polyvinyl alcohol blend hemodialysis membranes integrated with dialysis performance and high biocompatibility. Materials Science and Engineering C, 2021, 126, 112127.	7.3	84
60	Comparative Studies of Piston Crown Coating with YSZ and Al2O3Â·SiO2 on Engine out Responses Using Conventional Diesel and Palm Oil Biodiesel. Coatings, 2021, 11, 885.	2.6	4
61	Sustainable Hydrates for Enhanced Carbon Dioxide Capture from an Integrated Gasification Combined Cycle in a Fixed Bed Reactor. Industrial & Engineering Chemistry Research, 2021, 60, 11346-11356.	3.7	6
62	Feedback Control of Melt Pool Area in Selective Laser Melting Additive Manufacturing Process. Processes, 2021, 9, 1547.	2.8	7
63	Chemical Thermodynamics and Kinetics of Thiophenic Sulfur Removed from Coal by Microwave: A Density Functional Theory Study. Journal of Sustainable Metallurgy, 2021, 7, 1379-1392.	2.3	7
64	Effect of Intake Air Temperature and Premixed Ratio on Combustion and Exhaust Emissions in a Partial HCCI-DI Diesel Engine. Sustainability, 2021, 13, 8593.	3.2	4
65	Cellulose-deconstruction potential of nano-biocatalytic systems: A strategic drive from designing to sustainable applications of immobilized cellulases. International Journal of Biological Macromolecules, 2021, 185, 1-19.	7.5	30
66	Applications Characteristics of Different Biodiesel Blends in Modern Vehicles Engines: A Review. Sustainability, 2021, 13, 9677.	3.2	4
67	Effect of Calcium Doping Using Aqueous Phase Reforming of Glycerol over Sonochemically Synthesized Nickel-Based Supported ZrO2 Catalyst. Catalysts, 2021, 11, 977.	3.5	14
68	3D Guided Dental Implant Placement: Impact on Surgical Accuracy and Collateral Damage to the Inferior Alveolar Nerve. Dentistry Journal, 2021, 9, 99.	2.3	8
69	Nano architectured cues as sustainable membranes for ultrafiltration in blood hemodialysis. Materials Science and Engineering C, 2021, 128, 112260.	7.3	39
70	Numerical assessment on liquid mixing in a Tâ€mixer containing triâ€fin. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2703.	1.5	3
71	Thermal Analysis Technologies for Biomass Feedstocks: A State-of-the-Art Review. Processes, 2021, 9, 1610.	2.8	27
72	Tailored functional materials as robust candidates to mitigate pesticides in aqueous matricesâ€”a review. Chemosphere, 2021, 282, 131056.	8.2	23

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73	Adsorptive remediation of environmental pollutants using magnetic hybrid materials as platform adsorbents. Chemosphere, 2021, 284, 131279.	8.2	48
74	Developing flow of Newtonian fluids over superhydrophobic transverse grooves in circular tube. Journal of Mechanical Science and Technology, 2021, 35, 199-207.	1.5	5
75	Comparative Effect of Inoculation of Phosphorus-Solubilizing Bacteria and Phosphorus as Sustainable Fertilizer on Yield and Quality of Mung Bean (Vigna radiata L.). Plants, 2021, 10, 2079.	3.5	9
76	Preparation and Characterisation of Sustainable Wood Plastic Composites Extracted from Municipal Solid Waste. Polymers, 2021, 13, 3670.	4.5	28
77	Self-Compassion and Empathy as Predictors of Happiness among Late Adolescents. Social Sciences, 2021, 10, 380.	1.4	6
78	Unprecedented Impacts of Aviation Emissions on Global Environmental and Climate Change Scenario. Current Pollution Reports, 2021, 7, 549-564.	6.6	20
79	Methods for improving the in-cylinder airflow characteristics for sustainable transportation using fuels with higher viscosity: A review. Renewable and Sustainable Energy Reviews, 2021, 155, 111882.	16.4	1
80	Silver Conductive Threads-Based Embroidered Electrodes on Textiles as Moisture Sensors for Fluid Detection in Biomedical Applications. Materials, 2021, 14, 7813.	2.9	13
81	Valorization of Solketal Synthesis from Sustainable Biodiesel Derived Glycerol Using Response Surface Methodology. Catalysts, 2021, 11, 1537.	3.5	17
82	Alexandrian Laurel for Biodiesel Production and its Biodiesel Blends on Performance, Emission and Combustion Characteristics in Common-Rail Diesel Engine. Processes, 2020, 8, 1141.	2.8	1
83	Effect of Post Weld Heat Treatment on the Microstructure and Electrochemical Characteristics of Dissimilar Material Welded by Butter Method. Materials, 2020, 13, 4512.	2.9	4
84	Exergetic, Economic and Exergo-Environmental Analysis of Bottoming Power Cycles Operating with CO2-Based Binary Mixture. Energies, 2020, 13, 5080.	3.1	9
85	Enhanced liquid mixing in Tâ€mixer having staggered fins. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2538.	1.5	8
86	An Experimental Investigation on Tribological Behaviour of Tire-Derived Pyrolysis Oil Blended with Biodiesel Fuel. Sustainability, 2020, 12, 9975.	3.2	32
87	Numerical Investigation of the Characteristics of the In-Cylinder Air Flow in a Compression-Ignition Engine for the Application of Emulsified Biofuels. Processes, 2020, 8, 1517.	2.8	5
88	Modeling Viscosity and Density of Ethanol-Diesel-Biodiesel Ternary Blends for Sustainable Environment. Sustainability, 2020, 12, 5186.	3.2	81
89	Torrefied biomass fuels as a renewable alternative to coal in co-firing for power generation. Energy, 2020, 209, 118444.	8.8	86
90	Electrochemical Production of Sustainable Hydrocarbon Fuels from CO₂ Co-electrolysis in Eutectic Molten Melts. ACS Sustainable Chemistry and Engineering, 2020, 8, 12877-12890.	6.7	82

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91	Life Cycle Costing Analysis: Tools and Applications for Determining Hydrogen Production Cost for Fuel Cell Vehicle Technology. Energies, 2020, 13, 3783.	3.1	58
92	Study of Performance, Emissions, and Combustion of a Common-Rail Injection Engine Fuelled with Blends of Cocos nucifera Biodiesel with Diesel Oil. Processes, 2020, 8, 1287.	2.8	5
93	Performance, Emissions, Combustion and Vibration Analysis of a CI Engine Fueled with Coconut and Used Palm Cooking Oil Methyl Ester. Processes, 2020, 8, 990.	2.8	2
94	Implementation of Common Rail Direct Injection System and Optimization of Fuel Injector Parameters in an Experimental Single-Cylinder Diesel Engine. Processes, 2020, 8, 1122.	2.8	6
95	Catalytic Activity of Pt Loaded Zeolites for Hydroisomerization of n-Hexane Using Supercritical CO₂. Industrial & Engineering Chemistry Research, 2020, 59, 22092-22106.	3.7	60
96	Solution Combustion Synthesis of Transparent Conducting Thin Films for Sustainable Photovoltaic Applications. Sustainability, 2020, 12, 10423.	3.2	12
97	Sustainable Conversion of Carbon Dioxide into Diverse Hydrocarbon Fuels via Molten Salt Electrolysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 19178-19188.	6.7	11
98	Numerical Investigation of the Effect of Incorporated Guide Vane Length with SCC Piston for High-Viscosity Fuel Applications. Processes, 2020, 8, 1328.	2.8	2
99	A Study on the Tribological Performance of Nanolubricants. Processes, 2020, 8, 1372.	2.8	65
100	Numerical Investigation of Fluid Flow and In-Cylinder Air Flow Characteristics for Higher Viscosity Fuel Applications. Processes, 2020, 8, 439.	2.8	7
101	Biocomposite of sodium-alginate with acidified clay for wastewater treatment: Kinetic, equilibrium and thermodynamic studies. International Journal of Biological Macromolecules, 2020, 161, 1272-1285.	7.5	80
102	The effect of variable operating parameters for hydrocarbon fuel formation from CO2 by molten salts electrolysis. Journal of CO2 Utilization, 2020, 40, 101193.	6.8	77
103	Synthesis of 5-Fluorouracil Cocrystals with Novel Organic Acids as Coformers and Anticancer Evaluation against HCT-116 Colorectal Cell Lines. Crystal Growth and Design, 2020, 20, 2406-2414.	3.0	78
104	Adverse Drug Reaction Monitoring and Reporting Among Physicians and Pharmacists in Pakistan: A Cross-sectional Study. Current Drug Safety, 2020, 15, 137-146.	0.6	9
105	Feasibility Study of a 50 MW Wind Farm Project in Pakistan. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 74, 27-42.	0.6	7
106	Investigation of the Corrosion Metals in Moringa Biodiesel Fuel. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 75, 94-103.	0.6	3
107	Simulation of Particle Mixing and Separation in Multi-Component Fluidized Bed Using Eulerian-Eulerian Method: A Review. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	26
108	Experimental Investigation of Performance, Emission and Combustion Characteristics of a Common-Rail Diesel Engine Fuelled with Bioethanol as a Fuel Additive in Coconut Oil Biodiesel Blends. Energies, 2019, 12, 1954.	3.1	21

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109	Effect of Slot Wall Jet on Combustion Process in a 660 MW Opposed Wall Fired Pulverized Coal Boiler. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	31
110	Green synthesis and biological evaluation of novel 5-fluorouracil derivatives as potent anticancer agents. Saudi Pharmaceutical Journal, 2019, 27, 1164-1173.	2.7	64
111	Catalytic performance of Cu- and Zr-modified beta zeolite catalysts in the methylation of 2-methylnaphthalene. Petroleum Science, 2019, 16, 161-172.	4.9	61
112	Investigation on particulate emissions and combustion characteristics of a common-rail diesel engine fueled with Moringa oleifera biodiesel-diesel blends. Renewable Energy, 2019, 136, 521-534.	8.9	41
113	Optimisation of viscosity and density of refined palm Oil-Melaleuca Cajuputi oil binary blends using mixture design method. Renewable Energy, 2019, 133, 393-400.	8.9	20
114	Strategies for ideal indoor environments towards low/zero carbon buildings through a biomimetic approach. International Journal of Ambient Energy, 2019, 40, 86-95.	2.5	36
115	Assessment of knowledge, attitude and practice of adverse drug reaction reporting among healthcare professionals in secondary and tertiary hospitals in the capital of Pakistan. Saudi Pharmaceutical Journal, 2018, 26, 453-461.	2.7	61
116	Effect of Calophyllum Inophyllum biodiesel-diesel blends on combustion, performance, exhaust particulate matter and gaseous emissions in a multi-cylinder diesel engine. Fuel, 2018, 227, 154-164.	6.4	64
117	Influence of injection timing and split injection strategies on performance, emissions, and combustion characteristics of diesel engine fueled with biodiesel blended fuels. Fuel, 2018, 213, 106-114.	6.4	170
118	Physicochemical, Performance, Combustion and Emission Characteristics of Melaleuca Cajuputi Oil-Refined Palm Oil Hybrid Biofuel Blend. Energies, 2018, 11, 3146.	3.1	9
119	Effect of two-stage injection dwell angle on engine combustion and performance characteristics of a common-rail diesel engine fueled with coconut oil methyl esters-diesel fuel blends. Fuel, 2018, 234, 227-237.	6.4	14
120	Study of gasâ€“liquid mixing in stirred vessel using electrical resistance tomography. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 855-865.	1.5	49
121	Higher alcoholâ€“biodieselâ€“diesel blends: An approach for improving the performance, emission, and combustion of a light-duty diesel engine. Energy Conversion and Management, 2016, 111, 174-185.	9.2	202
122	An investigation of the engine performance, emissions and combustion characteristics of coconut biodiesel in a high-pressure common-rail diesel engine. Energy, 2014, 69, 749-759.	8.8	144
123	Impact of coconut oil blends on particulate-phase PAHs and regulated emissions from a light duty diesel engine. Energy, 2012, 48, 500-509.	8.8	44
124	Impact of Waste Cooking Oil Biodiesel on Performance, Exhaust Emission and Combustion Characteristics in a Light-Duty Diesel Engine. , 0, , .		20
125	Biorenewable Nanocomposites as Robust Materials for Energy Storage Applications. ACS Symposium Series, 0, , 197-224.	0.5	0