Tuan Amran Tuan Abdullah

List of Publications by Year
in descending order

104 papers	2,905 citations	172457 29 h-index	182427 51 g-index
105 all docs	105 docs citations	105 times ranked	2994 citing authors

#	Article	IF	Citations
1	Current state and future prospects of plastic waste as source of fuel: A review. Renewable and Sustainable Energy Reviews, 2015, 50, 1167-1180.	16.4	482
2	Renewable hydrogen production from bio-oil derivative via catalytic steam reforming: An overview. Renewable and Sustainable Energy Reviews, 2017, 79, 347-357.	16.4	156
3	Hydrogen donor solvents in liquefaction of biomass: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 1259-1268.	16.4	144
4	Optimization and characterization of bio-oil produced by microwave assisted pyrolysis of oil palm shell waste biomass with microwave absorber. Bioresource Technology, 2015, 190, 442-450.	9.6	122
5	The challenges and prospects of palm oil based biodiesel in Malaysia. Energy, 2015, 81, 255-261.	8.8	107
6	CO 2 reforming of CH 4 over Niâ€“Co/MSN for syngas production: Role of Co as a binder and optimization using RSM. Chemical Engineering Journal, 2016, 295, 1-10.	12.7	99
7	Influence of Ni to Co ratio supported on ZrO2 catalysts in phenol steam reforming for hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 22922-22931.	7.1	71
8	Production of hydrogen via steam reforming of acetic acid over Ni and Co supported on La 2 O 3 catalyst. International Journal of Hydrogen Energy, 2017, 42, 8975-8985.	7.1	68
9	Directing the amount of CNTs in CuOâ€“CNT catalysts for enhanced adsorption-oriented visible-light-responsive photodegradation of p-chloroaniline. Powder Technology, 2018, 327, 170-178.	4.2	68
10	Recent advances of feed-in tariff in Malaysia. Renewable and Sustainable Energy Reviews, 2015, 41, 42-52.	16.4	67
11	Catalytic steam reforming of complex gasified biomass tar model toward hydrogen over dolomite promoted nickel catalysts. International Journal of Hydrogen Energy, 2019, 44, 21303-21314.	7.1	64
12	Acetic acid-phenol steam reforming for hydrogen production: Effect of different composition of La2O3-Al2O3 support for bimetallic Ni-Co catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 2765-2773.	6.7	57
13	Hydrogen production from catalytic steam reforming of phenol with bimetallic nickel-cobalt catalyst on various supports. Applied Catalysis A: General, 2016, 527, 161-170.	4.3	55
14	Tailoring the Properties of Metal Oxide Loaded/KCC-1 toward a Different Mechanism of CO2 Methanation by in Situ IR and ESR. Inorganic Chemistry, 2018, 57, 5859-5869.	4.0	54
15	Catalytic Cracking of LDPE Dissolved in Benzene Using Nickel-Impregnated Zeolites. Industrial & Engineering Chemistry Research, 2016, 55, 2543-2555.	3.7	52
16	Parametric study on the steam reforming of phenol-PET solution to hydrogen production over Ni promoted on Al 2 O 3 -La 2 O 3 catalyst. Energy Conversion and Management, 2017, 142, 127-142.	9.2	51
17	Membrane-Based Electrolysis for Hydrogen Production: A Review. Membranes, 2021, 11, 810.	3.0	51
18	Conversion of low density polyethylene (LDPE) over ZSM-5 zeolite to liquid fuel. Fuel, 2017, 192, 71-82.	6.4	49

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19	Dry reforming of CH over stabilized Ni-La@KCC-1 catalyst: Effects of La promoter and optimization studies using RSM. Journal of CO2 Utilization, 2020, 37, 230-239.	6.8	46
20	n-Heptane isomerization over mesostructured silica nanoparticles (MSN): Dissociative-adsorption of molecular hydrogen on Pt and Mo sites. Applied Catalysis A: General, 2016, 516, 135-143.	4.3	45
21	CO₂ reforming of CH₄ over Ni/mesostructured silica nanoparticles (Ni/MSN). RSC Advances, 2015, 5, 37405-37414.	3.6	43
22	Fibrous spherical Niâ€M/ZSMâ€5 (M: Mg, Ca, Ta, Ga) catalysts for methane dry reforming: The interplay between surface acidityâ€basicity and coking resistance. International Journal of Energy Research, 2020, 44, 5696-5712.	4.5	42
23	Enhanced reactive CO2 species formation via V2O5-promoted Ni/KCC-1 for low temperature activation of CO2 methanation. Reaction Chemistry and Engineering, 2019, 4, 1126-1135.	3.7	38
24	Ni/Pd-promoted Al 2 O 3 â€“La 2 O 3 catalyst for hydrogen production from polyethylene terephthalate waste via steam reforming. International Journal of Hydrogen Energy, 2017, 42, 10708-10721.	7.1	37
25	Comparative Analysis of the Calorific Fuel Properties of Empty Fruit Bunch Fiber and Briquette. Energy Procedia, 2014, 52, 466-473.	1.8	36
26	Overview on utilization of biodiesel by-product for biohydrogen production. Journal of Cleaner Production, 2018, 172, 314-324.	9.3	36
27	Conversion of polyethylene terephthalate plastic waste and phenol steam reforming to hydrogen and valuable liquid fuel: Synthesis effect of Niâ€“Co/ZrO2 nanostructured catalysts. International Journal of Hydrogen Energy, 2020, 45, 6302-6317.	7.1	34
28	Evaluation of Reaction Parameters of the Phenol Steam Reforming over Ni/Co on ZrO2 Using the Full Factorial Experimental Design. Applied Sciences (Switzerland), 2016, 6, 223.	2.5	31
29	Role of oxygen vacancies in dendritic fibrous M/KCC-1 (MÂ=ÂRu, Pd, Rh) catalysts for methane partial oxidation to H2-rich syngas production. Fuel, 2020, 278, 118360.	6.4	30
30	Catalytic biohydrogen production from organic waste materials: A literature review and bibliometric analysis. International Journal of Hydrogen Energy, 2021, 46, 30903-30925.	7.1	30
31	Optimization of hydrogen production from steam reforming of biomass tar over Ni/dolomite/La2O3 catalysts. Journal of the Energy Institute, 2020, 93, 1177-1186.	5.3	30
32	Parametric study on catalytic cracking of LDPE to liquid fuel over ZSM-5 zeolite. Energy Conversion and Management, 2016, 122, 428-438.	9.2	29
33	Multicomponent devolatilization kinetics and thermal conversion of Imperata cylindrica. Applied Thermal Engineering, 2016, 105, 931-940.	6.0	28
34	Catalytic steam reforming of tar for enhancing hydrogen production from biomass gasification: a review. Frontiers in Energy, 2020, 14, 545-569.	2.3	27
35	Hydrogen-rich gas production by steam reforming of gasified biomass tar over Ni/dolomite/La2O3 catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103490.	6.7	25
36	Favored hydrogenation of linear carbon monoxide over cobalt loaded on fibrous silica KCC-1. International Journal of Hydrogen Energy, 2020, 45, 9522-9534.	7.1	22

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37	Study on Dissolution of Low Density Polyethylene (LDPE). Applied Mechanics and Materials, 0, 695, 170-173.	0.2	21
38	Development of a kinetic model for hydrogen production from phenol over Ni-Co/ZrO2 catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4444-4452.	6.7	21
39	Effect of Ptâ€“Pd/C coupled catalyst loading and polybenzimidazole ionomer binder on oxygen reduction reaction in high-temperature PEMFC. International Journal of Hydrogen Energy, 2019, 44, 20760-20769.	7.1	20
40	Selectivity of Copper by Amine-Based Ion Recognition Polymer Adsorbent with Different Aliphatic Amines. Polymers, 2019, 11, 1994.	4.5	20
41	Hydrogen Production from Acetic Acid Steam Reforming over Bimetallic Ni-Co on La₂O₃ Catalyst-Effect of the Catalyst Dilution. Applied Mechanics and Materials, 0, 493, 39-44.	0.2	19
42	Pellet size dependent steam reforming of polyethylene terephthalate waste for hydrogen production over Ni/La promoted Al2O3 catalyst. International Journal of Hydrogen Energy, 2017, 42, 21571-21585.	7.1	19
43	Thermogravimetric Analysis of the Fuel Properties of Empty Fruit Bunch Briquettes. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	18
44	Niâ€“Pt/Al nano-sized catalyst supported on TNPs for hydrogen and valuable fuel production from the steam reforming of plastic waste dissolved in phenol. International Journal of Hydrogen Energy, 2020, 45, 22817-22832.	7.1	17
45	Effect of Ni-Ta ratio on the catalytic selectivity of fibrous Ni-Ta/ZSM-5 for dry reforming of methane. Chemical Engineering Science, 2020, 227, 115952.	3.8	17
46	Combustion Kinetics of Shankodi-Jangwa Coal. Journal of Physical Science, 2016, 27, 1-12.	0.9	17
47	Pyrolysis of low density polyethylene waste in subcritical water optimized by response surface methodology. Environmental Technology (United Kingdom), 2016, 37, 245-254.	2.2	16
48	Production of hydrogen and valuable fuels from polyethylene terephthalate waste dissolved in phenol reforming and cracking reactions via Ni-Co/CeO2 nano-catalyst. Journal of Analytical and Applied Pyrolysis, 2021, 154, 105018.	5.5	15
49	Phosphoric acid doped composite proton exchange membrane for hydrogen production in medium-temperature copper chloride electrolysis. International Journal of Hydrogen Energy, 2020, 45, 22209-22222.	7.1	14
50	Hydrogen and value-added liquid fuel generation from pyrolysis-catalytic steam reforming conditions of microplastics waste dissolved in phenol over bifunctional Ni-Pt supported on Ti-Al nanocatalysts. Catalysis Today, 2022, 400-401, 35-48.	4.4	14
51	Evaluation of theoretical and experimental mass transfer limitation in steam reforming of phenol-PET waste to hydrogen production over Ni/La-promoted Al2O3 catalyst. Journal of Environmental Chemical Engineering, 2017, 5, 2752-2760.	6.7	13
52	Gasification of Empty Fruit Bunch Briquettes in a Fixed Bed Tubular Reactor for Hydrogen Production. Applied Mechanics and Materials, 0, 699, 534-539.	0.2	12
53	Evaluation of an Inconel-625 Reactor and its Wall Effects on Ethanol Reforming in Supercritical Water. Industrial & Engineering Chemistry Research, 2014, 53, 2121-2129.	3.7	12
54	Effects of Salinity on Nanosilica Applications in Altering Limestone Rock Wettability for Enhanced Oil Recovery. Advanced Materials Research, 0, 1125, 200-204.	0.3	12

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55	Exploration of reaction mechanisms on the plastic waste polyethylene terephthalate (PET) dissolved in phenol steam reforming reaction to produce hydrogen and valuable liquid fuels. Journal of Analytical and Applied Pyrolysis, 2020, 150, 104860.	5.5	12
56	Highly Active Biphasic Anatase-Rutile Ni-Pd/TNPs Nanocatalyst for the Reforming and Cracking Reactions of Microplastic Waste Dissolved in Phenol. ACS Omega, 2022, 7, 3324-3340.	3.5	12
57	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture through Steam and Dry Reforming. Procedia Manufacturing, 2015, 2, 92-96.	1.9	11
58	Catalytic Conversion of Residual Palm Oil in Spent Bleaching Earth (SBE) By HZSM-5 Zeolite based-Catalysts. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 456-465.	1.1	10
59	Biohydrogen production from Imperata cylindrica bio-oil using non-stoichiometric and thermodynamic model. International Journal of Hydrogen Energy, 2017, 42, 9011-9023.	7.1	9
60	Mathematical modeling of a single stage ultrasonically assisted distillation process. Ultrasonics Sonochemistry, 2015, 24, 184-192.	8.2	8
61	Hydrogen Production from Catalytic Polyethylene Terephthalate Waste Reforming Reaction, an overview. Catalysis for Sustainable Energy, 2020, 7, 45-64.	0.7	8
62	Thermogravimetric and Kinetic Analyses of Oil Palm Empty Fruit Bunch (OPEFB) Pellets Using the Distributed Activation Energy Model. Journal of Physical Science, 2016, 27, 67-83.	0.9	8
63	Sulfur dioxide removal by calcium-modified fibrous KCC-1 mesoporous silica: kinetics, thermodynamics, isotherm and mass transfer mechanism. Journal of Porous Materials, 2022, 29, 501-514.	2.6	8
64	Radiation grafting of DMAEMA and DEAEMA-based adsorbents for thorium adsorption. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 429-440.	1.5	7
65	Grafting yield determination of glycidyl methacrylate vapor on radiated kenaf fiber via FTIR spectroscopy. Materials Today: Proceedings, 2020, 29, 207-211.	1.8	7
66	Torrefaction of oil palm empty fruit bunch pellets: product yield, distribution and fuel characterisation for enhanced energy recovery. Biomass Conversion and Biorefinery, 2023, 13, 755-775.	4.6	7
67	HYDROGEN PRODUCTION FROM PHENOL STEAM REFORMING OVER Ni-Co/ZrO2 CATALYST: EFFECT OF CATALYST DILUTION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	6
68	Effect of Cr 2 O 3 loading on the properties and cracking activity of Pt/Cr 2 O 3 -ZrO 2. Applied Catalysis A: General, 2017, 541, 77-86.	4.3	6
69	Tetraethylenepentamine-containing adsorbent with optimized amination efficiency based on grafted polyolefin microfibrous substrate for CO2 adsorption. Arabian Journal of Chemistry, 2021, 14, 103067.	4.9	6
70	Ni-based catalysts for steam reforming of tar model derived from biomass gasification. E3S Web of Conferences, 2019, 90, 01015.	0.5	5
71	A Simulation of Claus Process Via Aspen Hysys for Sulfur Recovery. Chemical Product and Process Modeling, 2016, 11, 273-278.	0.9	4
72	Process Simulation for Removing Impurities From Wastewater Using Sour Water 2-Strippers system via Aspen Hysys. Chemical Product and Process Modeling, 2016, 11, 315-321.	0.9	4

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73	Integration of phosphoric acid onto radiation grafted poly (2,3-epoxypropyl methacrylate) -PP/PE non-woven fabrics aimed copper adsorbent via response surface method. Journal of Polymer Research, 2019, 26, 1.	2.4	4
74	Sulfur dioxide removal by mesoporous silica KCC-1 modified with low-coverage metal nitrates. Materials Today: Proceedings, 2021, 47, 1323-1328.	1.8	4
75	A Simplified Model for Gasification of Oil Palm Empty Fruit Bunch Briquettes. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	3
76	Design of a Bubbling Fluidized Bed Gasifier for the Thermochemical Conversion of Oil Palm Empty Fruit Bunch Briquette. Applied Mechanics and Materials, 0, 493, 3-8.	0.2	3
77	Failure Analysis Using Functional Model and Bayesian Network. Chemical Product and Process Modeling, 2016, 11, 265-272.	0.9	3
78	A comparison of CO2 adsorption behaviour of mono- and diamine-functionalised adsorbents. E3S Web of Conferences, 2019, 90, 01010.	0.5	3
79	Comprehensive Evaluation of the Combustion Kinetic Characteristics of Owukpa Coal. Coke and Chemistry, 2019, 62, 371-378.	0.4	3
80	Tailoring the properties of calcium modified fibrous mesoporous silica KCC-1 for optimized sulfur dioxide removal. Microporous and Mesoporous Materials, 2021, , 111610.	4.4	3
81	Dielectric Relaxation Process and Microwave Heating Mechanism in Îµ-Caprolactone as a Function of Frequency and Temperature. Advanced Materials Research, 2014, 931-932, 205-209.	0.3	2
82	ETHANOL SEPARATION USING SEPABEADS207 ADSORBENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	2
83	Carbonization and Coke Characteristics of Ogboligbo Coal. Coke and Chemistry, 2018, 61, 424-432.	0.4	2
84	A QUASI STEADY STATE MODEL FOR FLASH PYROLYSIS OF BIOMASS IN A TRANSPORTED BED REACTOR. Jurnal Teknologi (Sciences and Engineering), 2015, 75, .	0.4	2
85	SENSITIVITY ANALYSIS OF BIOHYDROGEN PRODUCTION FROM IMPERATA CYLINDRICA USING STOICHIOMETRIC EQUILIBRIUM MODEL. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	2
86	Thermogravimetric Analysis of Char Waste from the Air Gasification of Empty Fruit Bunch Briquette.. MATEC Web of Conferences, 2014, 13, 02004.	0.2	1
87	Dielectric Properties for the Ring Opening Polymerisation of Îµ-Caprolactone. Applied Mechanics and Materials, 0, 493, 621-627.	0.2	1
88	Effect of Fluidization Number on the Combustion of Empty Fruit Bunch in a Fluidized Bed. Advanced Materials Research, 0, 1125, 301-305.	0.3	1
89	Carbon Dioxide Capture from Reforming Gases using Acetic Acidâ€mixed Chemical Absorbents. Bulletin of the Korean Chemical Society, 2015, 36, 1940-1943.	1.9	1
90	Effect of ligand type on CO2 adsorption over amine functionalized fibrous adsorbents. IOP Conference Series: Materials Science and Engineering, 2020, 808, 012009.	0.6	1

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91	The Verification result of Permit to Work Assessment in Occupational Accident using Fault Tree Analysis. IOP Conference Series: Materials Science and Engineering, 2020, 808, 012022.	0.6	1
92	Thermal Decomposition Kinetics of Torrefied Oil Palm Empty Fruit Bunch Briquettes. Chemistry and Chemical Technology, 2016, 10, 325-328.	1.1	1
93	Effect of Temperature and Current Density on Polybenzimidazole Zirconium Phosphate Hybrid Membrane in Copper Chloride Electrolysis for Hydrogen Production. International Journal of Integrated Engineering, 2019, 11, .	0.4	1
94	Preparation of Ni Loaded on Zeolite and its Application for Conversion of Glycerol to Hydrogen. Advanced Materials Research, 0, 845, 457-461.	0.3	0
95	Effects of the Heat Carrierâ€™s Temperature and Particle Size on the Pyrolysis of <i>Imperata </i><i>cylindrica </i>in a Transported Bed Reactor. Applied Mechanics and Materials, 0, 625, 612-615.	0.2	0
96	Combustion of Municipal Solid Waste in a Pilot Scale Fluidized Bed Combustor. Advanced Materials Research, 2014, 931-932, 1015-1019.	0.3	0
97	Determination of Volatile Organic Compounds (VOCs) at Selected Pump Stations in Skudai, Johor Bahru. Advanced Materials Research, 2015, 1125, 306-311.	0.3	0
98	Level of Learning from Occupational Safety Accidents: Current Status in Malaysia. Advanced Materials Research, 0, 1125, 608-612.	0.3	0
99	Effect of Processing Parameters and Heating Techniques on the Extraction Yield of <i>Eurycoma</i> <i>longifolia </i>(Tongkat Ali). Advanced Materials Research, 0, 1125, 489-493.	0.3	0
100	CARBON MONOXIDE INTOXICATION FROM DOMESTIC FUEL-BURNING FURNCACES AND APPLIANCES. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.4	0
101	The permit to work in relation with occupational accident at Petrochemical Plant. IOP Conference Series: Materials Science and Engineering, 2020, 778, 012127.	0.6	0
102	MODEL FREE KINETICS ANALYSIS OF IMPERATA CYLINDRICA (LALANG). Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	0
103	Controlled Process of Radiation-Induced Grafting by Chemical Vapour Deposition for the Synthesis of Metal Adsorbent. Key Engineering Materials, 0, 908, 392-399.	0.4	0
104	Validation construct items for the measurement model of permit to work using exploratory factor analysis. International Journal of Business and Globalisation, 2022, 30, 462.	0.2	0