

# Tuan Amran Tuan Abdullah

## List of Publications by Year in descending order

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104  
papers

2,905  
citations

172386

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182361

51  
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105  
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105  
docs citations

105  
times ranked

2994  
citing authors

#	ARTICLE	IF	CITATIONS
1	Torrefaction of oil palm empty fruit bunch pellets: product yield, distribution and fuel characterisation for enhanced energy recovery. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 755-775.	2.9	7
2	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. <i>Catalysis Today</i> , 2022, 400-401, 35-48.	2.2	14
3	Highly Active Biphasic Anatase-Rutile Ni-Pd/TNPs Nanocatalyst for the Reforming and Cracking Reactions of Microplastic Waste Dissolved in Phenol. <i>ACS Omega</i> , 2022, 7, 3324-3340.	1.6	12
4	Sulfur dioxide removal by calcium-modified fibrous KCC-1 mesoporous silica: kinetics, thermodynamics, isotherm and mass transfer mechanism. <i>Journal of Porous Materials</i> , 2022, 29, 501-514.	1.3	8
5	Validation construct items for the measurement model of permit to work using exploratory factor analysis. <i>International Journal of Business and Globalisation</i> , 2022, 30, 462.	0.1	0
6	Production of hydrogen and valuable fuels from polyethylene terephthalate waste dissolved in phenol reforming and cracking reactions via Ni-Co/CeO <sub>2</sub> nano-catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 154, 105018.	2.6	15
7	Tetraethylenepentamine-containing adsorbent with optimized amination efficiency based on grafted polyolefin microfibrillar substrate for CO <sub>2</sub> adsorption. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103067.	2.3	6
8	Catalytic biohydrogen production from organic waste materials: A literature review and bibliometric analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30903-30925.	3.8	30
9	Sulfur dioxide removal by mesoporous silica KCC-1 modified with low-coverage metal nitrates. <i>Materials Today: Proceedings</i> , 2021, 47, 1323-1328.	0.9	4
10	Membrane-Based Electrolysis for Hydrogen Production: A Review. <i>Membranes</i> , 2021, 11, 810.	1.4	51
11	Tailoring the properties of calcium modified fibrous mesoporous silica KCC-1 for optimized sulfur dioxide removal. <i>Microporous and Mesoporous Materials</i> , 2021, , 111610.	2.2	3
12	Phosphoric acid doped composite proton exchange membrane for hydrogen production in medium-temperature copper chloride electrolysis. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22209-22222.	3.8	14
13	Conversion of polyethylene terephthalate plastic waste and phenol steam reforming to hydrogen and valuable liquid fuel: Synthesis effect of Ni-Co/ZrO <sub>2</sub> nanostructured catalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6302-6317.	3.8	34
14	Dry reforming of CH <sub>4</sub> over stabilized Ni-La@KCC-1 catalyst: Effects of La promoter and optimization studies using RSM. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 37, 230-239.	3.3	46
15	Ni-Pt/Al nano-sized catalyst supported on TNPs for hydrogen and valuable fuel production from the steam reforming of plastic waste dissolved in phenol. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22817-22832.	3.8	17
16	Effect of Ni-Ta ratio on the catalytic selectivity of fibrous Ni-Ta/ZSM-5 for dry reforming of methane. <i>Chemical Engineering Science</i> , 2020, 227, 115952.	1.9	17
17	The permit to work in relation with occupational accident at Petrochemical Plant. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 778, 012127.	0.3	0
18	Effect of ligand type on CO <sub>2</sub> adsorption over amine functionalized fibrous adsorbents. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012009.	0.3	1

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19	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.	0.3	1
20	Fibrous spherical Ni $\epsilon$ M/ZSM $\epsilon$ 5 (M: Mg, Ca, Ta, Ga) catalysts for methane dry reforming: The interplay between surface acidity $\epsilon$ basicity and coking resistance. International Journal of Energy Research, 2020, 44, 5696-5712.	2.2	42
21	Radiation grafting of DMAEMA and DEAEMA-based adsorbents for thorium adsorption. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 429-440.	0.7	7
22	Role of oxygen vacancies in dendritic fibrous M/KCC-1 (M= Ru, Pd, Rh) catalysts for methane partial oxidation to H <sub>2</sub> -rich syngas production. Fuel, 2020, 278, 118360.	3.4	30
23	Grafting yield determination of glycidyl methacrylate vapor on radiated kenaf fiber via FTIR spectroscopy. Materials Today: Proceedings, 2020, 29, 207-211.	0.9	7
24	Favored hydrogenation of linear carbon monoxide over cobalt loaded on fibrous silica KCC-1. International Journal of Hydrogen Energy, 2020, 45, 9522-9534.	3.8	22
25	Catalytic steam reforming of tar for enhancing hydrogen production from biomass gasification: a review. Frontiers in Energy, 2020, 14, 545-569.	1.2	27
26	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.	2.6	12
27	Optimization of hydrogen production from steam reforming of biomass tar over Ni/dolomite/La <sub>2</sub> O <sub>3</sub> catalysts. Journal of the Energy Institute, 2020, 93, 1177-1186.	2.7	30
28	Hydrogen Production from Catalytic Polyethylene Terephthalate Waste Reforming Reaction, an overview. Catalysis for Sustainable Energy, 2020, 7, 45-64.	0.7	8
29	Effect of Pt $\epsilon$ 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.	3.8	20
30	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.	3.8	64
31	A comparison of CO <sub>2</sub> adsorption behaviour of mono- and diamine-functionalised adsorbents. E3S Web of Conferences, 2019, 90, 01010.	0.2	3
32	Ni-based catalysts for steam reforming of tar model derived from biomass gasification. E3S Web of Conferences, 2019, 90, 01015.	0.2	5
33	Enhanced reactive CO <sub>2</sub> species formation via V <sub>2</sub> O <sub>5</sub> -promoted Ni/KCC-1 for low temperature activation of CO <sub>2</sub> methanation. Reaction Chemistry and Engineering, 2019, 4, 1126-1135.	1.9	38
34	Hydrogen-rich gas production by steam reforming of gasified biomass tar over Ni/dolomite/La <sub>2</sub> O <sub>3</sub> catalyst. Journal of Environmental Chemical Engineering, 2019, 7, 103490.	3.3	25
35	Selectivity of Copper by Amine-Based Ion Recognition Polymer Adsorbent with Different Aliphatic Amines. Polymers, 2019, 11, 1994.	2.0	20
36	Comprehensive Evaluation of the Combustion Kinetic Characteristics of Owukpa Coal. Coke and Chemistry, 2019, 62, 371-378.	0.0	3

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37	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.	1.2	4
38	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, .	0.2	1
39	Directing the amount of CNTs in CuO@CNT catalysts for enhanced adsorption-oriented visible-light-responsive photodegradation of p-chloroaniline. Powder Technology, 2018, 327, 170-178.	2.1	68
40	Hydrogen donor solvents in liquefaction of biomass: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 1259-1268.	8.2	144
41	Overview on utilization of biodiesel by-product for biohydrogen production. Journal of Cleaner Production, 2018, 172, 314-324.	4.6	36
42	Carbonization and Coke Characteristics of Ogboligbo Coal. Coke and Chemistry, 2018, 61, 424-432.	0.0	2
43	CARBON MONOXIDE INTOXICATION FROM DOMESTIC FUEL-BURNING FURNACES AND APPLIANCES. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.3	0
44	Tailoring the Properties of Metal Oxide Loaded/KCC-1 toward a Different Mechanism of CO <sub>2</sub> Methanation by in Situ IR and ESR. Inorganic Chemistry, 2018, 57, 5859-5869.	1.9	54
45	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.	0.5	10
46	Production of hydrogen via steam reforming of acetic acid over Ni and Co supported on La <sub>2</sub> O <sub>3</sub> catalyst. International Journal of Hydrogen Energy, 2017, 42, 8975-8985.	3.8	68
47	Ni/Pd-promoted Al <sub>2</sub> O <sub>3</sub> @La <sub>2</sub> O <sub>3</sub> catalyst for hydrogen production from polyethylene terephthalate waste via steam reforming. International Journal of Hydrogen Energy, 2017, 42, 10708-10721.	3.8	37
48	Evaluation of theoretical and experimental mass transfer limitation in steam reforming of phenol-PET waste to hydrogen production over Ni/La-promoted Al <sub>2</sub> O <sub>3</sub> catalyst. Journal of Environmental Chemical Engineering, 2017, 5, 2752-2760.	3.3	13
49	Effect of Cr <sub>2</sub> O <sub>3</sub> loading on the properties and cracking activity of Pt/Cr <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> . Applied Catalysis A: General, 2017, 541, 77-86.	2.2	6
50	Renewable hydrogen production from bio-oil derivative via catalytic steam reforming: An overview. Renewable and Sustainable Energy Reviews, 2017, 79, 347-357.	8.2	156
51	Parametric study on the steam reforming of phenol-PET solution to hydrogen production over Ni promoted on Al <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> catalyst. Energy Conversion and Management, 2017, 142, 127-142.	4.4	51
52	Conversion of low density polyethylene (LDPE) over ZSM-5 zeolite to liquid fuel. Fuel, 2017, 192, 71-82.	3.4	49
53	Pellet size dependent steam reforming of polyethylene terephthalate waste for hydrogen production over Ni/La promoted Al <sub>2</sub> O <sub>3</sub> catalyst. International Journal of Hydrogen Energy, 2017, 42, 21571-21585.	3.8	19
54	Biohydrogen production from Imperata cylindrica bio-oil using non-stoichiometric and thermodynamic model. International Journal of Hydrogen Energy, 2017, 42, 9011-9023.	3.8	9

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55	ETHANOL SEPARATION USING SEPABEADS207 ADSORBENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	2
56	HYDROGEN PRODUCTION FROM PHENOL STEAM REFORMING OVER Ni-Co/ZrO <sub>2</sub> CATALYST: EFFECT OF CATALYST DILUTION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	6
57	Evaluation of Reaction Parameters of the Phenol Steam Reforming over Ni/Co on ZrO <sub>2</sub> Using the Full Factorial Experimental Design. Applied Sciences (Switzerland), 2016, 6, 223.	1.3	31
58	A Simulation of Claus Process Via Aspen Hysys for Sulfur Recovery. Chemical Product and Process Modeling, 2016, 11, 273-278.	0.5	4
59	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.	0.5	4
60	Multicomponent devolatilization kinetics and thermal conversion of Imperata cylindrica. Applied Thermal Engineering, 2016, 105, 931-940.	3.0	28
61	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.	2.2	45
62	Failure Analysis Using Functional Model and Bayesian Network. Chemical Product and Process Modeling, 2016, 11, 265-272.	0.5	3
63	Parametric study on catalytic cracking of LDPE to liquid fuel over ZSM-5 zeolite. Energy Conversion and Management, 2016, 122, 428-438.	4.4	29
64	Hydrogen production from catalytic steam reforming of phenol with bimetallic nickel-cobalt catalyst on various supports. Applied Catalysis A: General, 2016, 527, 161-170.	2.2	55
65	Influence of Ni to Co ratio supported on ZrO <sub>2</sub> catalysts in phenol steam reforming for hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 22922-22931.	3.8	71
66	Development of a kinetic model for hydrogen production from phenol over Ni-Co/ZrO <sub>2</sub> catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4444-4452.	3.3	21
67	Acetic acid-phenol steam reforming for hydrogen production: Effect of different composition of La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> support for bimetallic Ni-Co catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 2765-2773.	3.3	57
68	Catalytic Cracking of LDPE Dissolved in Benzene Using Nickel-Impregnated Zeolites. Industrial & Engineering Chemistry Research, 2016, 55, 2543-2555.	1.8	52
69	CO <sub>2</sub> reforming of CH <sub>4</sub> over Ni-Co/MSN for syngas production: Role of Co as a binder and optimization using RSM. Chemical Engineering Journal, 2016, 295, 1-10.	6.6	99
70	Pyrolysis of low density polyethylene waste in subcritical water optimized by response surface methodology. Environmental Technology (United Kingdom), 2016, 37, 245-254.	1.2	16
71	Combustion Kinetics of Shankodi-Jangwa Coal. Journal of Physical Science, 2016, 27, 1-12.	0.5	17
72	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.	0.5	8

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73	Thermal Decomposition Kinetics of Torrefied Oil Palm Empty Fruit Bunch Briquettes. Chemistry and Chemical Technology, 2016, 10, 325-328.	0.2	1
74	SENSITIVITY ANALYSIS OF BIOHYDROGEN PRODUCTION FROM IMPERATA CYLINDRICA USING STOICHIOMETRIC EQUILIBRIUM MODEL. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	2
75	MODEL FREE KINETICS ANALYSIS OF IMPERATA CYLINDRICA (LALANG). Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314rgBT /Ov 0.3	0.3	0
76	Thermodynamic Analysis of Hydrogen Production from Ethanol-glycerol Mixture through Steam and Dry Reforming. Procedia Manufacturing, 2015, 2, 92-96.	1.9	11
77	Determination of Volatile Organic Compounds (VOCs) at Selected Pump Stations in Skudai, Johor Bahru. Advanced Materials Research, 2015, 1125, 306-311.	0.3	0
78	Carbon Dioxide Capture from Reforming Gases using Acetic Acid mixed Chemical Absorbents. Bulletin of the Korean Chemical Society, 2015, 36, 1940-1943.	1.0	1
79	Current state and future prospects of plastic waste as source of fuel: A review. Renewable and Sustainable Energy Reviews, 2015, 50, 1167-1180.	8.2	482
80	Mathematical modeling of a single stage ultrasonically assisted distillation process. Ultrasonics Sonochemistry, 2015, 24, 184-192.	3.8	8
81	The challenges and prospects of palm oil based biodiesel in Malaysia. Energy, 2015, 81, 255-261.	4.5	107
82	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.	4.8	122
83	CO <sub>2</sub> reforming of CH <sub>4</sub> over Ni/mesostructured silica nanoparticles (Ni/MSN). RSC Advances, 2015, 5, 37405-37414.	1.7	43
84	Recent advances of feed-in tariff in Malaysia. Renewable and Sustainable Energy Reviews, 2015, 41, 42-52.	8.2	67
85	A QUASI STEADY STATE MODEL FOR FLASH PYROLYSIS OF BIOMASS IN A TRANSPORTED BED REACTOR. Jurnal Teknologi (Sciences and Engineering), 2015, 75, .	0.3	2
86	Thermogravimetric Analysis of Char Waste from the Air Gasification of Empty Fruit Bunch Briquette.. MATEC Web of Conferences, 2014, 13, 02004.	0.1	1
87	A Simplified Model for Gasification of Oil Palm Empty Fruit Bunch Briquettes. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	3
88	Thermogravimetric Analysis of the Fuel Properties of Empty Fruit Bunch Briquettes. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.3	18
89	Combustion of Municipal Solid Waste in a Pilot Scale Fluidized Bed Combustor. Advanced Materials Research, 2014, 931-932, 1015-1019.	0.3	0
90	Dielectric Relaxation Process and Microwave Heating Mechanism in $\hat{\mu}$ -Caprolactone as a Function of Frequency and Temperature. Advanced Materials Research, 2014, 931-932, 205-209.	0.3	2

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91	Comparative Analysis of the Calorific Fuel Properties of Empty Fruit Bunch Fiber and Briquette. Energy Procedia, 2014, 52, 466-473.	1.8	36
92	Evaluation of an Inconel-625 Reactor and its Wall Effects on Ethanol Reforming in Supercritical Water. Industrial & Engineering Chemistry Research, 2014, 53, 2121-2129.	1.8	12
93	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
94	Effects of the Heat Carrier's Temperature and Particle Size on the Pyrolysis of Imperata cylindrica in a Transported Bed Reactor. Applied Mechanics and Materials, 0, 625, 612-615.	0.2	0
95	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
96	Study on Dissolution of Low Density Polyethylene (LDPE). Applied Mechanics and Materials, 0, 695, 170-173.	0.2	21
97	Dielectric Properties for the Ring Opening Polymerisation of $\epsilon$ -Caprolactone. Applied Mechanics and Materials, 0, 493, 621-627.	0.2	1
98	Hydrogen Production from Acetic Acid Steam Reforming over Bimetallic Ni-Co on La <sub>2</sub> O <sub>3</sub> ; Catalyst-Effect of the Catalyst Dilution. Applied Mechanics and Materials, 0, 493, 39-44.	0.2	19
99	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
100	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
101	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
102	Level of Learning from Occupational Safety Accidents: Current Status in Malaysia. Advanced Materials Research, 0, 1125, 608-612.	0.3	0
103	Effect of Processing Parameters and Heating Techniques on the Extraction Yield of Eurycoma longifolia (Tongkat Ali). Advanced Materials Research, 0, 1125, 489-493.	0.3	0
104	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