

Widayat Widayat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Novel iron sand-derived $\text{Fe}_2\text{O}_3/\text{CaO}$ bifunctional catalyst for waste cooking oil-based biodiesel production. <i>Environmental Science and Pollution Research</i> , 2023, 30, 98832-98847.	5.3	6
2	Production of non-food feedstock based biodiesel using acid-base bifunctional heterogeneous catalysts: A review. <i>Fuel</i> , 2022, 314, 122749.	6.4	43
3	Optimization of biodiesel production from waste cooking oil using $\text{Fe}_2\text{O}_3/\text{HAP}$ catalyst via simultaneous esterification-transesterification reaction. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 4050-4061.	2.3	2
4	Silica-rich Sodalite Synthesis: The Effect of Variations in Ultrasound Treatment and Hydrothermal Temperature. <i>Jurnal Kimia Sains Dan Aplikasi</i> , 2022, 25, 137-145.	0.4	0
5	Palm Oil Milling Effluent (POME) Waste Processing by Using Microalgae <i>Chlamydomonas</i> sp., 2022, 1, 63-69.		1
6	The Effect of NaHCO_3 and Mg^{2+} Addition in <i>Haematococcus pluvialis</i> Cultivation by Carbon Injection Method. , 2022, 1, 75-83.		0
7	PENGARUH KATALIS GENTENG TANAH LIAT DALAM PRODUKSI BAHAN BAKAR CAIR DARI LIMBAH BAN BEKAS DENGAN PROSES PIROLISIS. <i>Jurnal Energi Baru Dan Terbarukan</i> , 2021, 1, 51-58.	0.3	1
8	Physicochemical characteristic of modified edible film made from gelatine of sea bass (<i>Lates</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 157-166.	0.8	3
9	Vinasse as Cultivation Medium of <i>Chlorella</i> sp. to Produce Polyhydroxy Butyrate in Various Limited Low-Cost Primary Nutrient. <i>E3S Web of Conferences</i> , 2021, 226, 00018.	0.5	1
10	Copper and Lead Ions Removal by Electrocoagulation: Process Performance and Implications for Energy Consumption. <i>International Journal of Renewable Energy Development</i> , 2021, 10, 415-424.	2.4	5
11	Hydrocracking of Coconut Oil on the NiO/Silica-Rich Zeolite Synthesized Using a Quaternary Ammonium Surfactant. <i>Indonesian Journal of Chemistry</i> , 2021, 21, 361.	0.8	3
12	Performance evaluation of modified nanohybrid membrane polyethersulfone-nano ZnO (PES-nano) purification. <i>Renewable Energy</i> , 2020, 148, 935-945.	8.9	19
13	Biodiesel production from used cooking oil with assisted sun light and Fresnel solar concentrator. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
14	Synthesis of silica-rich zeolite using quaternary ammonium-based templates. <i>Journal of Physics: Conference Series</i> , 2020, 1524, 012087.	0.4	2
15	Effect of Temperature and Concentration of Zeolite Catalysts from Geothermal Solid Waste in Biodiesel Production from Used Cooking Oil by Esterification-Transesterification Process. <i>Processes</i> , 2020, 8, 1629.	2.8	13
16	Photochemical Oxidation Process of Copper from Electroplating Wastewater: Process Performance and Kinetic Study. <i>Processes</i> , 2020, 8, 1276.	2.8	3
17	Production of biodiesel from waste cooking oil using heterogeneous catalysts $\text{KI}/\text{Al}_2\text{O}_3$. <i>Journal of Environmental Engineering and Science</i> , 2020, 15, 107-112.	0.8	3
18	Bio-oil and Fuel Gas Production from Agricultural Waste via Pyrolysis: A Comparative Study of Oil Palm Empty Fruit Bunches (OPEFB) and Rice Husk. <i>Periodica Polytechnica: Chemical Engineering</i> , 2020, 64, 179-191.	1.1	5

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19	Multi-Feedstocks Biodiesel Production from Esterification of Calophyllum inophyllum Oil, Castor Oil, Palm Oil and Waste Cooking Oil. International Journal of Renewable Energy Development, 2020, 9, 119-123.	2.4	16
20	Preparation of KI/Hydroxyapatite Catalyst from Phosphate Rocks and Its Application for Improvement of Biodiesel Production. Molecules, 2020, 25, 2565.	3.8	12
21	The effect of impregnated type at kaolin catalyst on biodiesel production from used cooking oil. AIP Conference Proceedings, 2020, , .	0.4	3
22	Single-step purification of peroxidase enzyme from Horseradish (Raphanus sativus L.). AIP Conference Proceedings, 2020, , .	0.4	0
23	Fabrication and Characterization of Nano Hybrid Cellulose Acetate-nanoTiO ₂ /crosslinked Polyvinyl Alcohol Coated Membrane for Crude Clove Oil Purification. Periodica Polytechnica: Chemical Engineering, 2020, 64, 304-319.	1.1	3
24	UV Irradiation and Ozone Treatment of Î ⁹ -Carrageenan: Kinetics and Products Characteristics. Bulletin of Chemical Reaction Engineering and Catalysis, 2020, 15, 319-330.	1.1	3
25	Physicochemical properties of vacuum packaged snake fruits in the presence of olive leave extract. Food Research, 2020, 4, 250-255.	0.8	0
26	Legal Liability of Automatic Instrument Results in Environmental Laboratory Analysis. E3S Web of Conferences, 2020, 202, 05011.	0.5	0
27	Development of Heterogeneous Alkali Methoxide Catalyst from Fly Ash and Limestone. Chemistry and Chemical Technology, 2020, 14, 521-530.	1.1	0
28	Kinetic Study of Kapok Seed Oil Esterification using BMIM-PF ₆ Catalyst. Reaktor, 2020, 20, 138-149.	0.3	0
29	Improvement in nano-hybrid membrane PES-ethanol-nanosilica performance using ultra violet irradiation and acetone-ethanol immersion for produced water treatment. International Journal of Environmental Science and Technology, 2019, 16, 973-986.	3.5	2
30	Synthesis of Methyl Tertiary Glycerol Ether (MTGE) from glycerol and Tertiary Butyl Alcohol (TBA). IOP Conference Series: Earth and Environmental Science, 2019, 248, 012021.	0.3	0
31	Analysis of piperine content in cabe jawa extracts (Piper retrofractum Vahl) using UV spectrophotometry and HPLC. IOP Conference Series: Materials Science and Engineering, 2019, 509, 012025.	0.6	5
32	Liquid Waste Processing of Tofu Industry for Biomass Production as Raw Material Biodiesel Production. IOP Conference Series: Earth and Environmental Science, 2019, 248, 012064.	0.3	6
33	Synthesis of Zeolite X Molecular Sieve from Geothermal Solid Waste. Materials Today: Proceedings, 2019, 13, 137-142.	1.8	7
34	Biodiesel Production from Reutealis Trisperma Oil Using KOH Impregnated Eggshell as a Heterogeneous Catalyst. Energies, 2019, 12, 3714.	3.1	19
35	Preparation of Î±-Fe ₂ O ₃ -Al ₂ O ₃ Catalysts and Catalytic Testing for Biodiesel Production. Materials Today: Proceedings, 2019, 13, 97-102.	1.8	7
36	Characteristic of ZSM-5 catalyst supported by nickel and molybdenum. IOP Conference Series: Materials Science and Engineering, 2019, 509, 012138.	0.6	4

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37	The characteristic of Thermoelectric Energy Generator module installed at the wall of the prime stove. , 2019, , .		0
38	Heat Integration Analysis of Preliminary Plant Design of Glycerol Conversion into Propylene Glycol. International Journal on Engineering Applications, 2019, 7, 204.	0.1	3
39	Antioxidant activity and total phenolic content in Red Ginger (<i>Zingiber officinale</i>) </i>based drinks. IOP Conference Series: Earth and Environmental Science, 2018, 102, 012025.	0.3	4
40	A Review of Bio-lubricant Production from Vegetable Oils Using Esterification Transesterification Process. MATEC Web of Conferences, 2018, 156, 06007.	0.2	32
41	Study of Catalyst Variation Effect in Glycerol Conversion Process to Hydrogen Gas by Steam Reforming. IOP Conference Series: Materials Science and Engineering, 2018, 349, 012070.	0.6	2
42	Thermoelectric application in energy conservation. E3S Web of Conferences, 2018, 73, 01009.	0.5	0
43	Study of Rendement of Red Ginger Essential Oil from Red Ginger Waste by Using Steam Distillation Process. E3S Web of Conferences, 2018, 73, 07002.	0.5	4
44	Determination Hypiodous Acid (HIO) By Peroxidase System Using Peroxidase Enzyme. IOP Conference Series: Earth and Environmental Science, 2018, 116, 012043.	0.3	3
45	Potential of L-fucose isolated from Brown Seaweeds as Promising Natural Emulsifier compare to Carboxymethyl Cellulose (CMC). IOP Conference Series: Earth and Environmental Science, 2018, 116, 012005.	0.3	1
46	Study of utilization liquid smoke and carrageenan as a natural antibacterial in manufacturing beef meatballs. IOP Conference Series: Earth and Environmental Science, 2018, 102, 012060.	0.3	1
47	Preparation and Characterization of NiMo/Al ₂ O ₃ Catalyst for Hydrocracking Processing. E3S Web of Conferences, 2018, 31, 03011.	0.5	3
48	Application of iota and kappa carrageenans to traditional several food using modified cassava flour. IOP Conference Series: Earth and Environmental Science, 2018, 102, 012056.	0.3	15
49	The browning value changes and spectral analysis on the Maillard reaction product from glucose and methionine model system. IOP Conference Series: Earth and Environmental Science, 2018, 102, 012003.	0.3	6
50	Cultivation of Microalgae Chlorella sp on Fresh Water and Waste Water of Tofu Industry. E3S Web of Conferences, 2018, 31, 04009.	0.5	9
51	Synthesis and Characterization of Co/Ni/CoNi-ZSM-5 Catalyst for Hydrogen Production. MATEC Web of Conferences, 2018, 156, 06013.	0.2	2
52	STARCH PRODUCTION FROM RED GINGER (Zingiber officinale Rosc.). Jurnal Bahan Alam Terbarukan, 2018, 7, .	0.2	1
53	Study on the effect of different concentration of <i>Spirulina platensis</i> </i> paste added into dried noodle to its quality characteristics. IOP Conference Series: Earth and Environmental Science, 2017, 55, 012068.	0.3	5
54	Biodiesel Production by Using CaO Catalyst and Ultrasonic Assisted. Journal of Physics: Conference Series, 2017, 877, 012037.	0.4	7

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55	Synthesis and Characterization of ZSM-5 Catalyst at Different Temperatures. IOP Conference Series: Materials Science and Engineering, 2017, 214, 012032.	0.6	27
56	The development of heterogeneous catalyst C/CaO/NaOH from waste of green mussel shell (Perna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.7	42
57	Biodiesel production by using heterogeneous catalyst from fly ash and limestone. , 2017, , .		3
58	Preparation of Heterogeneous CaO Catalysts for Biodiesel Production. Journal of Physics: Conference Series, 2017, 877, 012018.	0.4	13
59	ENHANCED ANTI-FOULING BEHAVIOR AND PERFORMANCES OF NANO HYBRID PES-SIO2 AND PES-ZNO MEMBRANES FOR PRODUCED WATER TREATMENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	6
60	Bagian Depan Reaktor Vol 17 No. 2 Juni 2017. Reaktor, 2017, 17, .	0.3	0
61	Bagian Belakang Reaktor Vol 17 No. 2 Juni 2017. Reaktor, 2017, 17, .	0.3	0
62	The effect of adding CTAB template in ZSM-5 synthesis. AIP Conference Proceedings, 2017, , .	0.4	2
63	Development of Natural Kaolin as Catalyst for Biodiesel Production. Advanced Science Letters, 2017, 23, 5590-5594.	0.2	3
64	Effect of Ultraviolet on the Morphology and Performance of PES-Nano-Silica Hybrid Membrane for Produced Water Treatment. Advanced Science Letters, 2017, 23, 5744-5747.	0.2	6
65	Enhancement of Patchouli Oils Quality Using Traditional Distillation Methods from Batang Indonesia by Plant Improvement. Advanced Science Letters, 2017, 23, 2450-2453.	0.2	1
66	Biofuel Production from Kapok Seed Oil with Catalytic Cracking Process by Using Microwave. Advanced Science Letters, 2017, 23, 5799-5802.	0.2	0
67	Effect of Liquid Smoke and Carrageenan to Beef Meatball Texture. Advanced Science Letters, 2017, 23, 5780-5782.	0.2	0
68	Effect of pH on Nano-Hydroxyapatite Synthesis from Chicken Eggshell Prepared by Electrochemical Method. Advanced Science Letters, 2017, 23, 5733-5735.	0.2	1
69	APPLICATION OF Spirulina platensis ON ICE CREAM AND SOFT CHEESE WITH RESPECT TO THEIR NUTRITIONAL AND SENSORY PERSPECTIVES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	16
70	Synthesis H-Zeolite catalyst by impregnation KI/KIO3 and performance test catalyst for biodiesel production. IOP Conference Series: Materials Science and Engineering, 2016, 107, 012044.	0.6	9
71	Biodiesel production with continuous processing and direct Ultrasonic Assisted. , 2016, , .		2
72	Biodiesel production from jatropha curcas oil and palm oil by using undirect ultrasonic assisted. , 2016, , .		1

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73	The optimization process of biodiesel production using multiple feedstock (CPO and Jatropha) with assistance of ultrasound at 40 kHz. AIP Conference Proceedings, 2016, , .	0.4	0
74	The development of fly ash-supported CaO derived from mollusk shell of Anadara granosa and Paphia undulata as heterogeneous CaO catalyst in biodiesel synthesis. International Journal of Energy and Environmental Engineering, 2016, 7, 297-305.	2.5	25
75	Preparation and Characterization of Anadara Granosa Shells and CaCO ₃ as Heterogeneous Catalyst for Biodiesel Production. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 21-26.	1.1	26
76	Biodiesel production from multi feedstock as feed with direct ultrasound assisted. AIP Conference Proceedings, 2015, , .	0.4	8
77	Surface modification of ultra thin PES-zeolite using thermal annealing to increase flux and rejection of produced water treatment. AIP Conference Proceedings, 2015, , .	0.4	3
78	Effect of initial temperature and concentration of catalyst in polyeugenol production. AIP Conference Proceedings, 2015, , .	0.4	1
79	Regenerated silica gel as stationary phase on vacuum column chromatography to purify temulawakâ€™s extracts. AIP Conference Proceedings, 2015, , .	0.4	2
80	Optimization process of tribenzoine production as a glycerol derived product. AIP Conference Proceedings, 2015, , .	0.4	0
81	Optimization of Eugenol Extraction from Clove Oil using Response Surface Methodology. Modern Applied Science, 2015, 9, 68.	0.6	2
82	Kinetic Study on Esterification of Oleic Acid with Ultrasound Assisted. Procedia Environmental Sciences, 2015, 23, 78-85.	1.4	12
83	Application of foam-mat drying with egg white for carrageenan: drying rate and product quality aspects. Journal of Food Science and Technology, 2015, 52, 1170-1175.	2.8	40
84	Kinetic Study on Ultrasound Assisted Biodiesel Production from Waste Cooking Oil. Journal of Engineering and Technological Sciences, 2015, 47, 374-388.	0.6	6
85	Improvement of Clove Oil Quality by Using Adsorption-distillation Process. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 3867-3871.	0.1	5
86	Study on Production Process of Biodiesel from Rubber Seed (Hevea Brasiliensis) by in Situ (Trans)Esterification Method with Acid Catalyst. Energy Procedia, 2013, 32, 64-73.	1.8	37
87	Biodiesel Production from Bulk Frying Oil with Ultrasound Assisted. Research Journal of Applied Sciences, Engineering and Technology, 2013, 6, 1732-1739.	0.1	11
88	Potency of Microalgae as Biodiesel Source in Indonesia. International Journal of Renewable Energy Development, 2012, 1, 23-27.	2.4	17
89	Ultrasound Assisted Esterification of Rubber Seed Oil for Biodiesel Production. International Journal of Renewable Energy Development, 2012, 1, 1-5.	2.4	7
90	Biodiesel Production from Rubber Seed Oil via Esterification Process. International Journal of Renewable Energy Development, 2012, 1, 57-60.	2.4	9

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91	Evaluation and Modification of Processes for Bioethanol Separation and Production. International Journal of Renewable Energy Development, 2012, 1, 15-22.	2.4	4
92	Synthesis and catalytic evaluation of hematite (Fe_2O_3) magnetic nanoparticles from iron sand for waste cooking oil conversion to produce biodiesel through esterification-transesterification method. IOP Conference Series: Materials Science and Engineering, 0, 509, 012035.	0.6	7
93	Development of heterogeneous catalyst from chicken bone and catalytic testing for biodiesel with simultaneous processing. IOP Conference Series: Materials Science and Engineering, 0, 509, 012125.	0.6	5
94	Performance of $\text{NiMo-Al}_2\text{O}_3$ catalyst in biokerosene production via hydrocracking of dirty palm oil. International Journal of Ambient Energy, 0, , 1-11.	2.5	0