

# Tutuk Djoko Kusworo

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,135  
citations

430442

18  
h-index

414034

32  
g-index

60  
all docs

60  
docs citations

60  
times ranked

703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced gas permeation performance of polyethersulfone mixed matrix hollow fiber membranes using novel Dynasylan Amino silane agent. <i>Journal of Membrane Science</i> , 2008, 319, 306-312.	4.1	153
2	A review on photothermal material and its usage in the development of photothermal membrane for sustainable clean water production. <i>Desalination</i> , 2021, 517, 115259.	4.0	100
3	Transformation of Solid Waste Management in China: Moving towards Sustainability through Digitalization-Based Circular Economy. <i>Sustainability</i> , 2022, 14, 2374.	1.6	92
4	Oilfield produced water treatment to clean water using integrated activated carbon-bentonite adsorbent and double stages membrane process. <i>Chemical Engineering Journal</i> , 2018, 347, 462-471.	6.6	78
5	Performance evaluation of double stage process using nano hybrid PES/SiO <sub>2</sub> -PES membrane and PES/ZnO-PES membranes for oily waste water treatment to clean water. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6077-6086.	3.3	65
6	Effect of nano-TiO <sub>2</sub> loading in polysulfone membranes on the removal of pollutant following natural-rubber wastewater treatment. <i>Journal of Water Process Engineering</i> , 2020, 35, 101190.	2.6	52
7	Synergistic adsorption and photocatalytic properties of AC/TiO <sub>2</sub> /CeO <sub>2</sub> composite for phenol and ammonia nitrogen compound degradations from petroleum refinery wastewater. <i>Chemical Engineering Journal</i> , 2022, 434, 134687.	6.6	51
8	Synthesis, characterization, and performance evaluation of UV light-driven Co-TiO <sub>2</sub> @SiO <sub>2</sub> based photocatalytic nanohybrid polysulfone membrane for effective treatment of petroleum refinery wastewater. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121576.	10.8	46
9	Preparation and characterization of photocatalytic PSf-TiO <sub>2</sub> /GO nanohybrid membrane for the degradation of organic contaminants in natural rubber wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105066.	3.3	42
10	Harnessing landfill gas (LFG) for electricity: A strategy to mitigate greenhouse gas (GHG) emissions in Jakarta (Indonesia). <i>Journal of Environmental Management</i> , 2022, 301, 113882.	3.8	39
11	Treatment of whitewater from pulp and paper industry using membrane filtrations. <i>Chemical Papers</i> , 2022, 76, 5001-5010.	1.0	27
12	Intensifying separation and antifouling performance of PSf membrane incorporated by GO and ZnO nanoparticles for petroleum refinery wastewater treatment. <i>Journal of Water Process Engineering</i> , 2021, 41, 102030.	2.6	26
13	Evaluation of Integrated modified nanohybrid polyethersulfone-ZnO membrane with single stage and double stage system for produced water treatment into clean water. <i>Journal of Water Process Engineering</i> , 2018, 23, 239-249.	2.6	25
14	Petroleum Refinery Wastewater Treatment using Three Steps Modified Nanohybrid Membrane Coupled with Ozonation as Integrated Pre-treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103978.	3.3	23
15	Optimization of AC/TiO <sub>2</sub> /CeO <sub>2</sub> composite formulation for petroleum refinery wastewater treatment via simultaneous adsorption-photocatalytic process using D-optimal mixture experimental design. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106517.	3.3	23
16	Synergistic effect of UV irradiation and thermal annealing to develop high performance polyethersulfone-nano silica membrane for produced water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3290-3301.	3.3	22
17	Removal of organic pollutants from rubber wastewater using hydrophilic nanocomposite rGO-ZnO/PES hybrid membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106421.	3.3	20
18	Recent Mitigation Strategies on Membrane Fouling for Oily Wastewater Treatment. <i>Membranes</i> , 2022, 12, 26.	1.4	20

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19	Performance evaluation of modified nanohybrid membrane polyethersulfone-nano ZnO (PES-nano) Tj ETQq1 1 0.784314 rgBT /Overlook purification. <i>Renewable Energy</i> , 2020, 148, 935-945.	4.3	19
20	Performance of the Crosslinked PVA Coated PES-TiO <sub>2</sub> Nano Hybrid Membrane for the Treatment of Pretreated Natural Rubber Wastewater Involving Sequential Adsorption & Ozonation Processes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104855.	3.3	18
21	Phenol and ammonia removal in petroleum refinery wastewater using a poly(vinyl) alcohol coated polysulfone nanohybrid membrane. <i>Journal of Water Process Engineering</i> , 2021, 39, 101718.	2.6	17
22	Photocatalytic nanohybrid membranes for highly efficient wastewater treatment: A comprehensive review. <i>Journal of Environmental Management</i> , 2022, 317, 115357.	3.8	17
23	The effect of pretreatment using sodium hydroxide and acetic acid to biogas production from rice straw waste. <i>MATEC Web of Conferences</i> , 2017, 101, 02011.	0.1	16
24	Photocatalytic antifouling nanohybrid polysulfone membrane using the synergetic effect of graphene oxide and SiO <sub>2</sub> for effective treatment of natural rubber-laden wastewater. <i>Journal of Membrane Science</i> , 2022, 657, 120663.	4.1	16
25	Increasing biogas production from sugar cane baggase by anaerobic co-digestion with animal manure. <i>MATEC Web of Conferences</i> , 2017, 101, 02014.	0.1	14
26	Enhancement of separation performance of nano hybrid PES & TiO <sub>2</sub> membrane using three combination effects of ultraviolet irradiation, ethanol-acetone immersion, and thermal annealing process for CO <sub>2</sub> removal. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2865-2873.	3.3	13
27	Effect of combination dope composition and evaporation time on the separation performance of cellulose acetate membrane for demak brackish water treatment. <i>MATEC Web of Conferences</i> , 2017, 101, 01004.	0.1	10
28	Fish protein concentrate for human consumption: A review of its preparation by solvent extraction methods and potential for food applications. <i>Annals of Agricultural Sciences</i> , 2022, 67, 42-59.	1.1	9
29	Micellar-Enhanced Ultrafiltration Using a Plant-Derived Surfactant for Dye Separation in Wastewater Treatment. <i>Membranes</i> , 2020, 10, 220.	1.4	8
30	The Effect of Acid Concentration (H <sub>2</sub> SO <sub>4</sub> ) on the Yield and Functional Group during Lignin Isolation of Biomass Waste Pulp and Paper Industry. <i>Reaktor</i> , 2019, 19, 162-167.	0.2	7
31	ENHANCED ANTI-FOULING BEHAVIOR AND PERFORMANCES OF NANO HYBRID PES-SiO <sub>2</sub> AND PES-ZNO MEMBRANES FOR PRODUCED WATER TREATMENT. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2017, 79, .	0.3	6
32	Effect of Ultraviolet on the Morphology and Performance of PES-Nano-Silica Hybrid Membrane for Produced Water Treatment. <i>Advanced Science Letters</i> , 2017, 23, 5744-5747.	0.2	6
33	Enhancement of separation performance of asymmetric cellulose acetate membrane for produced water treatment using response surface methodology. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2018, 24, 139-147.	0.4	6
34	Fabrication of MoS <sub>2</sub> @rGO and MoS <sub>2</sub> @ZIF-8 membranes supported on flat alumina substrate for effective oil removal. <i>Emergent Materials</i> , 2022, 5, 1169-1182.	3.2	6
35	Kinetic Modeling of Flocculation and Coalescence in the System Emulsion of Water-Xylene-Terbutyl Oleyl Glycosides. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2019, 14, 60.	0.5	4
36	Studies on as separation behaviour of polymer blending PI/PES hybrid mixed membrane: Effect of polymer concentration and zeolite loading. <i>International Journal of Science and Engineering</i> , 2014, 6, .	0.1	3

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37	Experimental study on drying kinetic of cassava starch in a pneumatic drying system. AIP Conference Proceedings, 2015, , .	0.3	3
38	One pot reaction to synthesize allyl etherified eugenol from clove oil. IOP Conference Series: Materials Science and Engineering, 2019, 509, 012098.	0.3	3
39	UV irradiation and PEG additive effects on PES hybrid membranes performance in rubber industry wastewater treatment. AIP Conference Proceedings, 2020, , .	0.3	3
40	Fabrication and Characterization of Nano Hybrid Cellulose Acetate-nanoTiO <sub>2</sub> /crosslinked Polyvinyl Alcohol Coated Membrane for Crude Clove Oil Purification. Periodica Polytechnica: Chemical Engineering, 2020, 64, 304-319.	0.5	3
41	Improving the Performance of Polysulfone-nano ZnO Membranes for Water Treatment in Oil Refinery with Modified UV Irradiation and Polyvinyl Alcohol. Periodica Polytechnica: Chemical Engineering, 2021, 66, 43-53.	0.5	3
42	Enhancement of Hybrid SPEEK Based Polymer- $\alpha$ -Cyclodextrin-Silica Inorganic Membrane for Direct Methanol Fuel Cell Application. International Journal of Renewable Energy Development, 2017, 6, 165.	1.2	2
43	Improvement in nano-hybrid membrane PES- $\alpha$ -nanosilica performance using ultra violet irradiation and acetone- $\alpha$ -ethanol immersion for produced water treatment. International Journal of Environmental Science and Technology, 2019, 16, 973-986.	1.8	2
44	Synthesis of Surfactant Tert-Butyl Glycosides from Glucose and Tert-Butanol. Reaktor, 2019, 18, 202-208.	0.2	2
45	Hydrodynamic study: The best injection pressure in enhanced oil recovery (EOR) using surfactant sodium ligno sulfonate (SLS) from black liquor. AIP Conference Proceedings, 2020, , .	0.3	2
46	Produced Water Treatment as Oil Well Water Injection Using Nano-Hybrid PES Membrane to Enhance Oil and Gas Production. Advanced Science Letters, 2017, 23, 2527-2529.	0.2	2
47	Synthesis Tert-Butyl Oleyl Glycosides Surfactant from Esterification Tert-Butyl Glycosides with Oleic Acids. Advanced Science Letters, 2017, 23, 5716-5719.	0.2	2
48	Effect of Surfactant HLB Value on Enzymatic Hydrolysis of Chitosan. ChemEngineering, 2022, 6, 17.	1.0	2
49	PENGARUH KATALIS Co DAN Fe TERHADAP KARAKTERISTIK CARBON NANOTUBES DARI GAS ASETILENA DENGAN MENGGUNAKAN PROSES CATALYTIC CHEMICAL VAPOUR DEPOSITION (CCVD). Reaktor, 2013, 14, 234.	0.2	1
50	Fouling reduction by ozone-enhanced backwashing process in ultrafiltration of petroleum-based oil in water emulsion. AIP Conference Proceedings, 2017, , .	0.3	1
51	Optimization of Bio-oil Production from Empty Palm Fruit Bunches by Pyrolysis using Response Surface Methodology. Reaktor, 2020, 20, 1-9.	0.2	1
52	Effects of crosslinking and thermal annealing modifications on the performance of nanohybrid PSf-ZnO membranes for the treatment of raw and ozonated petroleum refinery wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 106200.	3.3	1
53	MODIFICATION OF NANO HYBRID PES-ZNO MEMBRANE USING UV IRRADIATION FOR BIODIESEL PURIFICATION. Jurnal Teknologi (Sciences and Engineering), 2020, 82, .	0.3	1
54	The Influence of Operating Conditions on Drying Curve of Cassava Starch in Pneumatic Dryer. Advanced Science Letters, 2017, 23, 5650-5652.	0.2	1

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55	Enhancement of Hybrid sPEEK Based Polymer Cyclodextrin Inorganic Membrane for Direct Methanol Fuel Cell Application. <i>Advanced Science Letters</i> , 2017, 23, 5765-5767.	0.2	1
56	Synthesis and Characterization of Nano Hybrid Membrane PES-TiO <sub>2</sub> for Biogas Purification: Combination Effect of Ultra Violet and Cross-Linking. <i>MATEC Web of Conferences</i> , 2018, 156, 08006.	0.1	0
57	DEVELOPMENT OF ANTIFOULING POLYETHERSULFONE (PES)-NANO ZnO MEMBRANE FOR PRODUCED WATER TREATMENT. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2018, 80, .	0.3	0
58	Performance of Ultrafiltration Ozone Combined System for Produced Water Treatment. <i>Periodica Polytechnica: Chemical Engineering</i> , 2019, , .	0.5	0
59	Improvement of PES Nanocomposit Membrane Performance Through UV and ZNO Concentration for Refinery Waste Water Purification. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1053, 012021.	0.3	0
60	Improvement of Separation Performance Cellulose Acetate Membrane via Thermal Annealing and Dope Composition for Brackish Water Treatment from Jepara. <i>Advanced Science Letters</i> , 2017, 23, 5748-5750.	0.2	0