

# Nurul Widiastuti

## List of Publications by Year in descending order

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51  
papers

779  
citations

840776

11  
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526287

27  
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all docs

52  
docs citations

52  
times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of PVDF/LiCl membrane performance by modifying the membrane surface using zeolite NaY and ZCC spray coating method for Dunaliella salina microalgae dewatering. Materials Today: Proceedings, 2022, 65, 2940-2945.	1.8	3
2	A Review of Titanium Dioxide (TiO <sub>2</sub> )-Based Photocatalyst for Oilfield-Produced Water Treatment. Membranes, 2022, 12, 345.	3.0	83
3	N <sub>2</sub> /CH <sub>4</sub> separation behavior at elevated temperature on P84 hollow fiber carbon membrane. Materials Today: Proceedings, 2022, , .	1.8	3
4	Annealing and TMOS coating on PSF/ZTC mixed matrix membrane for enhanced CO <sub>2</sub> /CH <sub>4</sub> and H <sub>2</sub> /CH <sub>4</sub> separation. Royal Society Open Science, 2022, 9, .	2.4	10
5	CO <sub>2</sub> gas separation using mixed matrix membranes based on polyethersulfone/MIL-100(Al). Open Chemistry, 2021, 19, 307-321.	1.9	10
6	Improvement N <sub>2</sub> /SF <sub>6</sub> separation performance on P84 derived carbon membrane by incorporating of zeolite-carbon composite. AIP Conference Proceedings, 2021, , .	0.4	3
7	Synthesis of solid and hollow TiO <sub>2</sub> nanofibers with electrospinning method. AIP Conference Proceedings, 2021, , .	0.4	0
8	PVDF/LiCl membrane for up-concentration of Nannochloropsis sp. microalgae harvesting and its cleaning. AIP Conference Proceedings, 2021, , .	0.4	1
9	Annealing treatment for enhancing of H <sub>2</sub> /C <sub>3</sub> H <sub>8</sub> separation performance on polysulfone membrane. AIP Conference Proceedings, 2021, , .	0.4	2
10	The utilization of micro-mesoporous carbon-based filler in the P84 hollow fibre membrane for gas separation. Royal Society Open Science, 2021, 8, 201150.	2.4	5
11	Development of a P84/ZCC Composite Carbon Membrane for Gas Separation of H <sub>2</sub> /CO <sub>2</sub> and H <sub>2</sub> /CH <sub>4</sub> . ACS Omega, 2021, 6, 15637-15650.	3.5	20
12	Fabrication of hybrid membranes based on poly(ether-sulfone)/Materials Institute Lavoisier (MIL-53)(Al) and its enhanced CO <sub>2</sub> gas separation performance. Chemical Papers, 2021, 75, 6519-6530.	2.2	8
13	Enhanced CO <sub>2</sub> methanation at mild temperature on Ni/zeolite from kaolin: effect of metal support interface. RSC Advances, 2021, 11, 16376-16387.	3.6	18
14	Synthesis of Composite Membrane Based Biopolymer Chitosan With Silica From Rice Husk Ash For Direct Methanol Fuel Cell Application. IOP Conference Series: Earth and Environmental Science, 2021, 830, 012021.	0.3	3
15	Novel mixed matrix membranes (MMMs) based on metal organic framework (MOF) [Mg <sub>3</sub> (BTC) <sub>2</sub> ]/poly-ether sulfone (PES): preparation and application for CO <sub>2</sub> gas separation. Journal of Polymer Research, 2021, 28, 1.	2.4	2
16	Seawater Desalination by Modified Membrane Distillation: Effect of Hydrophilic Surface Modifying Macromolecules Addition into PVDF Hollow Fiber Membrane. Membranes, 2021, 11, 924.	3.0	4
17	P84/ZCC Hollow Fiber Mixed Matrix Membrane with PDMS Coating to Enhance Air Separation Performance. Membranes, 2020, 10, 267.	3.0	20
18	SYNTHESIS OF ZEOLITE NaY FROM DEALUMINATED METAKAOLIN AS Ni SUPPORT FOR CO <sub>2</sub> HYDROGENATION TO METHANE. Clays and Clay Minerals, 2020, 68, 513-523.	1.3	13

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19	Prospects of nanocomposite membranes for natural gas treatment. , 2020, , 355-378.		3
20	Enhanced gas separation performance of polysulfone membrane by incorporation of zeolite-templated carbon. Malaysian Journal of Fundamental and Applied Sciences, 2020, 16, 128-134.	0.8	9
21	Polysulfone mixed matrix hollow fiber membranes using zeolite templated carbon as a performance enhancement filler for gas separation. Chemical Engineering Research and Design, 2019, 150, 274-288.	5.6	23
22	Simple Method to Enhance O <sub>2</sub> /N <sub>2</sub> Separation on P84 co-polyimide Hollow Fiber Membrane. IOP Conference Series: Materials Science and Engineering, 2019, 546, 042042.	0.6	8
23	Fabrication of Mixed Matrix Membrane Polysulfone - Zeolite Carbon Composites (ZCC) For Gas Separation. IOP Conference Series: Materials Science and Engineering, 2019, 546, 042020.	0.6	2
24	DUT-5 modified Pd metal-nanoparticles: synthesis, chemical stability, and hydrogen sorption studies. Materials Research Express, 2019, 6, 1250d4.	1.6	5
25	Zeolite templated carbon: Preparation, characterization and performance as filler material in co-polyimide membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 407-413.	0.8	6
26	P84/Zeolite-Carbon Composite Mixed Matrix Membrane for CO <sub>2</sub> /CH <sub>4</sub> Separation. Indonesian Journal of Chemistry, 2019, 19, 650.	0.8	11
27	Hydrogen Adsorption Characteristics for Zeolite-Y Templated Carbon. Indonesian Journal of Chemistry, 2019, 20, 29.	0.8	11
28	Activation of zeolite-Y templated carbon with KOH to enhance the CO <sub>2</sub> adsorption capacity. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 249-253.	0.8	6
29	Combined Computational and Experimental Study the Effect of Doped Magnesium into Betanine-sensitized TiO <sub>2</sub> Photoanode for Dye-Sensitized Solar Cells Application. Indonesian Journal of Chemistry, 2019, 19, 892.	0.8	0
30	Mesoporous WO <sub>3</sub> /TiO <sub>2</sub> Nanocomposites Photocatalyst for Rapid Degradation of Methylene Blue in Aqueous Medium. International Journal of Engineering, Transactions A: Basics, 2019, 32, .	0.4	0
31	Adsorption-desorption of CO <sub>2</sub> on zeolite-Y-templated carbon at various temperatures. RSC Advances, 2018, 8, 41594-41602.	3.6	36
32	Adsorption-desorption of CO <sub>2</sub> and H <sub>2</sub> gases on zeolite-X supported on glass fiber. AIP Conference Proceedings, 2018, , .	0.4	1
33	Modification of zeolite-Y templated carbon at various nitrogen loading for hydrogen adsorption. AIP Conference Proceedings, 2018, , .	0.4	0
34	Combination of microbial fuel cell and zeolite Na-Y adsorption for chromium removal. AIP Conference Proceedings, 2018, , .	0.4	13
35	Synthesis of Zeolite-X from Bottom Ash for H <sub>2</sub> Adsorption. IOP Conference Series: Materials Science and Engineering, 2018, 299, 012083.	0.6	3
36	The Modification of PVDF Membrane via Crosslinking with Chitosan and Glutaraldehyde as the Crosslinking Agent. Indonesian Journal of Chemistry, 2018, 18, 1.	0.8	6

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37	Preparation of polyvinylidene fluoride/cellulose acetate blend membrane with polyethylene glycol additive for apple juice clarification. AIP Conference Proceedings, 2017, , .	0.4	1
38	The Effect of Silane Addition on Chitosan-Fly Ash/CTAB as Electrolyte Membrane. IOP Conference Series: Materials Science and Engineering, 2017, 172, 012016.	0.6	3
39	Impregnation Nickel on Mesoporous ZSM-5 Templated Carbons as a Candidate Material for Hydrogen Storage. Indonesian Journal of Chemistry, 2017, 17, 30.	0.8	1
40	CORRELATION BETWEEN PROTON CONDUCTIVITY, HYDROPHILICITY, AND THERMAL STABILITY OF CHITOSAN/MONTMORILLONITE COMPOSITE MEMBRANE MODIFIED GPTMS AND THEIR PERFORMANCE IN DIRECT METHANOL FUEL CELL. Malaysian Journal of Analytical Sciences, 2017, 21, .	0.1	0
41	POLY(EUGENOL SULFONATE) - SULFONATED POLYETHERIMIDE NEW BLENDS MEMBRANE PROMISING FOR DIRECT METHANOL FUEL CELL. Malaysian Journal of Analytical Sciences, 2017, 21, .	0.1	1
42	Synthesis of Zeolite-X Supported on Kapok Fiber for CO <sub>2</sub> Capture Material: Variation of Immersion Time during Fiber Activation. Indonesian Journal of Chemistry, 2017, 17, 471.	0.8	1
43	Solvothermal and electrochemical synthetic method of HKUST-1 and its methane storage capacity. IOP Conference Series: Materials Science and Engineering, 2016, 107, 012030.	0.6	13
44	Modification of chitosan membranes with nanosilica particles as polymer electrolyte membranes. AIP Conference Proceedings, 2016, , .	0.4	0
45	Biopolymer-based electrolyte membranes from chitosan incorporated with montmorillonite-crosslinked GPTMS for direct methanol fuel cells. RSC Advances, 2016, 6, 2314-2322.	3.6	60
46	Synthesis of Zeolite-X Supported On Glasswool for CO <sub>2</sub> Capture Material: Variation of Immersion Time and NaOH Concentration at Glasswool Activation. Indonesian Journal of Chemistry, 2016, 16, 1.	0.8	3
47	Crystal Phase and Surface Morphology of Zeolite-Y Templated Carbon with K <sub>2</sub> CO <sub>3</sub> and ZnCl <sub>2</sub> Activation. Indonesian Journal of Chemistry, 2015, 15, 315-318.	0.8	1
48	ÂSynthesis Of Zeolite X-carbon From Coal Bottom Ash For Hydrogen Storage Material. Advanced Materials Letters, 2014, 5, 453-458.	0.6	12
49	Removal of ammonium from greywater using natural zeolite. Desalination, 2011, 277, 15-23.	8.2	248
50	The potential application of natural zeolite for greywater treatment. Desalination, 2008, 218, 271-280.	8.2	82
51	Physicochemical Studies of Chitosan Blended Sulfonated Poly Ether-Ether Ketone and Graphene Oxide as Filler for Direct Methanol Fuel Cell. Defect and Diffusion Forum, 0, 416, 173-181.	0.4	1