

Nurul Widiastuti

List of Publications by Year in descending order

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51
papers

779
citations

840776

11
h-index

526287

27
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52
all docs

52
docs citations

52
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of ammonium from greywater using natural zeolite. <i>Desalination</i> , 2011, 277, 15-23.	8.2	248
2	A Review of Titanium Dioxide (TiO ₂)-Based Photocatalyst for Oilfield-Produced Water Treatment. <i>Membranes</i> , 2022, 12, 345.	3.0	83
3	The potential application of natural zeolite for greywater treatment. <i>Desalination</i> , 2008, 218, 271-280.	8.2	82
4	Biopolymer-based electrolyte membranes from chitosan incorporated with montmorillonite-crosslinked GPTMS for direct methanol fuel cells. <i>RSC Advances</i> , 2016, 6, 2314-2322.	3.6	60
5	Adsorption-desorption of CO ₂ on zeolite-Y-templated carbon at various temperatures. <i>RSC Advances</i> , 2018, 8, 41594-41602.	3.6	36
6	Polysulfone mixed matrix hollow fiber membranes using zeolite templated carbon as a performance enhancement filler for gas separation. <i>Chemical Engineering Research and Design</i> , 2019, 150, 274-288.	5.6	23
7	P84/ZCC Hollow Fiber Mixed Matrix Membrane with PDMS Coating to Enhance Air Separation Performance. <i>Membranes</i> , 2020, 10, 267.	3.0	20
8	Development of a P84/ZCC Composite Carbon Membrane for Gas Separation of H ₂ /CO ₂ and H ₂ /CH ₄ . <i>ACS Omega</i> , 2021, 6, 15637-15650.	3.5	20
9	Enhanced CO ₂ methanation at mild temperature on Ni/zeolite from kaolin: effect of metal-support interface. <i>RSC Advances</i> , 2021, 11, 16376-16387.	3.6	18
10	Solvothermal and electrochemical synthetic method of HKUST-1 and its methane storage capacity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 107, 012030.	0.6	13
11	Combination of microbial fuel cell and zeolite Na-Y adsorption for chromium removal. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	13
12	SYNTHESIS OF ZEOLITE NaY FROM DEALUMINATED METAKAOLIN AS Ni SUPPORT FOR CO ₂ HYDROGENATION TO METHANE. <i>Clays and Clay Minerals</i> , 2020, 68, 513-523.	1.3	13
13	Synthesis Of Zeolite X-carbon From Coal Bottom Ash For Hydrogen Storage Material. <i>Advanced Materials Letters</i> , 2014, 5, 453-458.	0.6	12
14	P84/Zeolite-Carbon Composite Mixed Matrix Membrane for CO ₂ /CH ₄ Separation. <i>Indonesian Journal of Chemistry</i> , 2019, 19, 650.	0.8	11
15	Hydrogen Adsorption Characteristics for Zeolite-Y Templated Carbon. <i>Indonesian Journal of Chemistry</i> , 2019, 20, 29.	0.8	11
16	CO ₂ gas separation using mixed matrix membranes based on polyethersulfone/MIL-100(Al). <i>Open Chemistry</i> , 2021, 19, 307-321.	1.9	10
17	Annealing and TMOS coating on PSF/ZTC mixed matrix membrane for enhanced CO ₂ /CH ₄ and H ₂ /CH ₄ separation. <i>Royal Society Open Science</i> , 2022, 9, .	2.4	10
18	Enhanced gas separation performance of polysulfone membrane by incorporation of zeolite-templated carbon. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2020, 16, 128-134.	0.8	9

#	ARTICLE	IF	CITATIONS
19	Simple Method to Enhance O ₂ /N ₂ Separation on P84 co-polyimide Hollow Fiber Membrane. IOP Conference Series: Materials Science and Engineering, 2019, 546, 042042.	0.6	8
20	Fabrication of hybrid membranes based on poly(ether-sulfone)/Materials Institute Lavoisier (MIL-53)(Al) and its enhanced CO ₂ gas separation performance. Chemical Papers, 2021, 75, 6519-6530.	2.2	8
21	Zeolite templated carbon: Preparation, characterization and performance as filler material in co-polyimide membranes for CO ₂ /CH ₄ separation. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 407-413.	0.8	6
22	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
23	Activation of zeolite-Y templated carbon with KOH to enhance the CO ₂ adsorption capacity. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 249-253.	0.8	6
24	DUT-5 modified Pd metal-nanoparticles: synthesis, chemical stability, and hydrogen sorption studies. Materials Research Express, 2019, 6, 1250d4.	1.6	5
25	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
26	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
27	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
28	Synthesis of Zeolite-X from Bottom Ash for H ₂ Adsorption. IOP Conference Series: Materials Science and Engineering, 2018, 299, 012083.	0.6	3
29	Prospects of nanocomposite membranes for natural gas treatment. , 2020, , 355-378.		3
30	Improvement N ₂ /SF ₆ separation performance on P84 derived carbon membrane by incorporating of zeolite-carbon composite. AIP Conference Proceedings, 2021, , .	0.4	3
31	Synthesis of Zeolite-X Supported On Glasswool for CO ₂ Capture Material: Variation of Immersion Time and NaOH Concentration at Glasswool Activation. Indonesian Journal of Chemistry, 2016, 16, 1.	0.8	3
32	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
33	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
34	N ₂ /CH ₄ separation behavior at elevated temperature on P84 hollow fiber carbon membrane. Materials Today: Proceedings, 2022, , .	1.8	3
35	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
36	Annealing treatment for enhancing of H ₂ /C ₃ H ₈ separation performance on polysulfone membrane. AIP Conference Proceedings, 2021, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Novel mixed matrix membranes (MMMs) based on metal-organic framework (MOF) [Mg ₃ (BTC) ₂]/poly-ether sulfone (PES): preparation and application for CO ₂ gas separation. Journal of Polymer Research, 2021, 28, 1.	2.4	2
38	Preparation of polyvinylidene fluoride/cellulose acetate blend membrane with polyethylene glycol additive for apple juice clarification. AIP Conference Proceedings, 2017, , .	0.4	1
39	Adsorption-desorption of CO ₂ and H ₂ gases on zeolite-X supported on glass fiber. AIP Conference Proceedings, 2018, , .	0.4	1
40	PVDF/LiCl membrane for up-concentration of Nannochloropsis sp. microalgae harvesting and its cleaning. AIP Conference Proceedings, 2021, , .	0.4	1
41	Crystal Phase and Surface Morphology of Zeolite-Y Templated Carbon with K ₂ CO ₃ and ZnCl ₂ Activation. Indonesian Journal of Chemistry, 2015, 15, 315-318.	0.8	1
42	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
43	POLY(EUGENOL SULFONATE) - SULFONATED POLYETHERIMIDE NEW BLENDS MEMBRANE PROMISING FOR DIRECT METHANOL FUEL CELL. Malaysian Journal of Analytical Sciences, 2017, 21, .	0.1	1
44	Synthesis of Zeolite-X Supported on Kapok Fiber for CO ₂ Capture Material: Variation of Immersion Time during Fiber Activation. Indonesian Journal of Chemistry, 2017, 17, 471.	0.8	1
45	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
46	Modification of chitosan membranes with nanosilica particles as polymer electrolyte membranes. AIP Conference Proceedings, 2016, , .	0.4	0
47	Modification of zeolite-Y templated carbon at various nitrogen loading for hydrogen adsorption. AIP Conference Proceedings, 2018, , .	0.4	0
48	Synthesis of solid and hollow TiO ₂ nanofibers with electrospinning method. AIP Conference Proceedings, 2021, , .	0.4	0
49	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
50	Combined Computational and Experimental Study the Effect of Doped Magnesium into Betanine-sensitized TiO ₂ Photoanode for Dye-Sensitized Solar Cells Application. Indonesian Journal of Chemistry, 2019, 19, 892.	0.8	0
51	Mesoporous WO ₃ /TiO ₂ Nanocomposites Photocatalyst for Rapid Degradation of Methylene Blue in Aqueous Medium. International Journal of Engineering, Transactions A: Basics, 2019, 32, .	0.4	0