

Won Hee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,463
citations

377584

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536525

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docs citations

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times ranked

1250
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of structural isomerism on physical and gas transport properties of Tröger's Base-based polyimides. <i>Polymer</i> , 2022, 239, 124412.	1.8	12
2	Reinforced poly(fluorenyl-co-terphenyl piperidinium) anion exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , 2022, 644, 120160.	4.1	23
3	Microfiber aligned hollow fiber membranes from immiscible polymer solutions by phase inversion. <i>Journal of Membrane Science</i> , 2021, 617, 118654.	4.1	19
4	Poly(Alkyl-terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline Membrane Fuel Cell Performance of 2.58 W cm ⁻² . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7710-7718.	7.0	185
5	Poly(Alkyl-terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline Membrane Fuel Cell Performance of 2.58 W cm ⁻² . <i>Angewandte Chemie</i> , 2021, 133, 7789-7797.	1.6	29
6	Thumbnail: Poly(Alkyl-terphenyl Piperidinium) Ionomers and Membranes with an Outstanding Alkaline Membrane Fuel Cell Performance of 2.58 W cm ⁻² (Angew. Chem. 14/2021). <i>Angewandte Chemie</i> , 2021, 133, 8060-8060.	1.6	0
7	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. <i>Nature Communications</i> , 2021, 12, 2367.	5.8	193
8	Thermally rearranged semi-interpenetrating polymer network (TR-SIPN) membranes for gas and olefin/paraffin separation. <i>Journal of Membrane Science</i> , 2021, 625, 119157.	4.1	21
9	Microporous polymers with cascaded cavities for controlled transport of small gas molecules. <i>Science Advances</i> , 2021, 7, eabi9062.	4.7	16
10	Thermally rearranged polybenzoxazole copolymers incorporating Tröger's base for high flux gas separation membranes. <i>Journal of Membrane Science</i> , 2020, 612, 118437.	4.1	42
11	Highly permeable polyimides incorporating Tröger's base (TB) units for gas separation membranes. <i>Journal of Membrane Science</i> , 2020, 615, 118533.	4.1	31
12	Energy and time efficient infrared (IR) irradiation treatment for preparing thermally rearranged (TR) and carbon molecular sieve (CMS) membranes for gas separation. <i>Journal of Membrane Science</i> , 2020, 613, 118477.	4.1	17
13	Tröger's Base (TB)-containing polyimide membranes derived from bio-based dianhydrides for gas separations. <i>Journal of Membrane Science</i> , 2020, 610, 118255.	4.1	31
14	Alicyclic segments upgrade hydrogen separation performance of intrinsically microporous polyimide membranes. <i>Journal of Membrane Science</i> , 2020, 611, 118363.	4.1	32
15	Recent progress in microporous polymers from thermally rearranged polymers and polymers of intrinsic microporosity for membrane gas separation: Pushing performance limits and revisiting trade-off lines. <i>Journal of Polymer Science</i> , 2020, 58, 2450-2466.	2.0	68
16	Thermally rearranged polymer membranes containing highly rigid biphenyl ortho-hydroxyl diamine for hydrogen separation. <i>Journal of Membrane Science</i> , 2020, 604, 118053.	4.1	33
17	Effects of sulfonate incorporation and structural isomerism on physical and gas transport properties of soluble sulfonated polyimides. <i>Polymer</i> , 2020, 191, 122263.	1.8	19
18	Thin film composite on fluorinated thermally rearranged polymer nanofibrous membrane achieves power density of 87 W m ⁻² in pressure retarded osmosis, improving economics of osmotic heat engine. <i>Journal of Membrane Science</i> , 2020, 607, 118120.	4.1	20

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19	Highly permeable Thermally Rearranged Mixed Matrix Membranes (TR-MMM). Journal of Membrane Science, 2019, 585, 260-270.	4.1	47
20	Mutual influence of mixed-gas permeation in thermally rearranged poly(benzoxazole-co-imide) polymer membranes. Journal of Membrane Science, 2019, 580, 202-213.	4.1	25
21	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. Journal of Membrane Science, 2018, 549, 260-266.	4.1	82
22	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. Journal of Membrane Science, 2018, 568, 67-75.	4.1	34
23	Wet CO ₂ /N ₂ permeation through a crosslinked thermally rearranged poly(benzoxazole-co-imide) (XTR-PBOI) hollow fiber membrane module for CO ₂ capture. Journal of Membrane Science, 2017, 539, 412-420.	4.1	38
24	Ternary mixed-gas separation for flue gas CO ₂ capture using high performance thermally rearranged (TR) hollow fiber membranes. Journal of Membrane Science, 2016, 510, 472-480.	4.1	42
25	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. Chemical Communications, 2016, 52, 13556-13559.	2.2	55
26	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. Chemical Communications, 2016, 52, 3817-3820.	2.2	75
27	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. Journal of Membrane Science, 2016, 504, 55-65.	4.1	127
28	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating Tröger's base. Journal of Membrane Science, 2015, 480, 104-114.	4.1	67
29	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. Macromolecules, 2015, 48, 5286-5299.	2.2	78