

Won Hee Lee

List of Publications by Year in descending order

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74
papers

3,224
citations

156536

32
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175968

55
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77
all docs

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docs citations

77
times ranked

4975
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	Long non-coding RNAs and microRNAs as crucial regulators in cardio-oncology. <i>Cell and Bioscience</i> , 2022, 12, 24.	2.1	15
4	Microfiber aligned hollow fiber membranes from immiscible polymer solutions by phase inversion. <i>Journal of Membrane Science</i> , 2021, 617, 118654.	4.1	19
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 - International Edition</i> , 2021, 60, 7710-7718.	7.0	185
6	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
7	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
8	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. <i>Nature Communications</i> , 2021, 12, 2367.	5.8	193
9	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
10	Editorial: 3D Cell Culture Systems for Cardiovascular Tissue Engineering: In vitro Modelling and in vivo Regenerative Therapies. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 675676.	1.1	0
11	Microporous polymers with cascaded cavities for controlled transport of small gas molecules. <i>Science Advances</i> , 2021, 7, eabi9062.	4.7	16
12	Effects of bulky 2,2'-substituents in dianhydrides on the microstructures and gas transport properties of thermally rearranged polybenzoxazoles. <i>Journal of Membrane Science</i> , 2021, 639, 119777.	4.1	6
13	Genome-wide differential expression profiling of lncRNAs and mRNAs in human induced pluripotent stem cell-derived endothelial cells exposed to e-cigarette extract. <i>Stem Cell Research and Therapy</i> , 2021, 12, 593.	2.4	3
14	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
15	Detection of viral RNA fragments in human iPSC cardiomyocytes following treatment with extracellular vesicles from SARS-CoV-2 coding sequence overexpressing lung epithelial cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 514.	2.4	47
16	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
17	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
18	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

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19	Alicyclic segments upgrade hydrogen separation performance of intrinsically microporous polyimide membranes. <i>Journal of Membrane Science</i> , 2020, 611, 118363.	4.1	32
20	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
21	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
22	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
23	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
24	Modeling Uremic Vasculopathy With Induced Pluripotent Stem Cell-Derived Endothelial Cells as a Drug Screening System. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 618796.	1.8	4
25	Modeling Cardiovascular Risks of E-Cigarettes With Human-Induced Pluripotent Stem Cell-Derived Endothelial Cells. <i>Journal of the American College of Cardiology</i> , 2019, 73, 2722-2737.	1.2	108
26	Highly permeable Thermally Rearranged Mixed Matrix Membranes (TR-MMM). <i>Journal of Membrane Science</i> , 2019, 585, 260-270.	4.1	47
27	Mutual influence of mixed-gas permeation in thermally rearranged poly(benzoxazole-co-imide) polymer membranes. <i>Journal of Membrane Science</i> , 2019, 580, 202-213.	4.1	25
28	Single-Cell RNA Sequencing of Human Embryonic Stem Cell Differentiation Delineates Adverse Effects of Nicotine on Embryonic Development. <i>Stem Cell Reports</i> , 2019, 12, 772-786.	2.3	47
29	Calpain Inhibition Restores Autophagy and Prevents Mitochondrial Fragmentation in a Human iPSC Model of Diabetic Endotheliopathy. <i>Stem Cell Reports</i> , 2019, 12, 597-610.	2.3	36
30	Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. <i>Human Brain Mapping</i> , 2018, 39, 3058-3071.	1.9	17
31	Mining Exosomal MicroRNAs from Human-Induced Pluripotent Stem Cells-Derived Cardiomyocytes for Cardiac Regeneration. <i>Methods in Molecular Biology</i> , 2018, 1733, 127-136.	0.4	11
32	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. <i>Journal of Membrane Science</i> , 2018, 549, 260-266.	4.1	82
33	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2018, 568, 67-75.	4.1	34
34	Causes of early rebleeding after coil embolization of ruptured cerebral aneurysms. <i>Clinical Neurology and Neurosurgery</i> , 2018, 174, 108-116.	0.6	11
35	Elective neck treatment in clinically node-negative paranasal sinus carcinomas: impact on treatment outcome. <i>Radiation Oncology Journal</i> , 2018, 36, 304-316.	0.7	7
36	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. <i>Journal of Membrane Science</i> , 2017, 539, 412-420.	4.1	38

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37	Role of NADPH oxidase in radiation-induced pro-oxidative and pro-inflammatory pathways in mouse brain. <i>International Journal of Radiation Biology</i> , 2017, 93, 1257-1266.	1.0	20
38	Comparison of Non-Coding RNAs in Exosomes and Functional Efficacy of Human Embryonic Stem Cell-versus Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Stem Cells</i> , 2017, 35, 2138-2149.	1.4	54
39	Allogeneic Mesenchymal Stromal Cells Overexpressing Mutant Human Hypoxia-inducible Factor 1 α (HIF1 α) _{1.6} in an Ovine Model of Acute Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	29
40	Ternary mixed-gas separation for flue gas CO ₂ capture using high performance thermally rearranged (TR) hollow fiber membranes. <i>Journal of Membrane Science</i> , 2016, 510, 472-480.	4.1	42
41	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. <i>Chemical Communications</i> , 2016, 52, 13556-13559.	2.2	55
42	Comparison of Magnetic Resonance Imaging and Serum Biomarkers for Detection of Human Pluripotent Stem Cell-Derived Teratomas. <i>Stem Cell Reports</i> , 2016, 6, 176-187.	2.3	27
43	DNA damage-associated biomarkers in studying individual sensitivity to low-dose radiation from cardiovascular imaging. <i>European Heart Journal</i> , 2016, 37, 3075-3080.	1.0	24
44	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , 2016, 52, 3817-3820.	2.2	75
45	High-strength, soluble polyimide membranes incorporating Tröger's Base for gas separation. <i>Journal of Membrane Science</i> , 2016, 504, 55-65.	4.1	127
46	Effects of cellular origin on differentiation of human induced pluripotent stem cell-derived endothelial cells. <i>JCI Insight</i> , 2016, 1, .	2.3	75
47	Effect of methanol treatment on gas sorption and transport behavior of intrinsically microporous polyimide membranes incorporating Tröger's base. <i>Journal of Membrane Science</i> , 2015, 480, 104-114.	4.1	67
48	Variable Activation of the DNA Damage Response Pathways in Patients Undergoing Single-Photon Emission Computed Tomography Myocardial Perfusion Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, e002851.	1.3	17
49	Mechanically Tough, Thermally Rearranged (TR) Random/Block Poly(benzoxazole-co-imide) Gas Separation Membranes. <i>Macromolecules</i> , 2015, 48, 5286-5299.	2.2	78
50	Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 873-884.	2.3	66
51	MicroRNA-mediated regulation of differentiation and trans-differentiation in stem cells. <i>Advanced Drug Delivery Reviews</i> , 2015, 88, 3-15.	6.6	53
52	Response to Letter Regarding Article, "Cross Talk of Combined Gene and Cell Therapy in Ischemic Heart Disease: Role of Exosomal MicroRNA Transfer". <i>Circulation</i> , 2015, 131, e385.	1.6	2
53	Microfluidic Single-Cell Analysis of Transplanted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes After Acute Myocardial Infarction. <i>Circulation</i> , 2015, 132, 762-771.	1.6	77
54	Bilateral Globus Pallidus Interna Deep-Brain Stimulation in a Patient With Myoclonus-Dystonia: A Case Report. <i>Neuromodulation</i> , 2014, 17, 724-728.	0.4	15

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55	HIF-1 reduces ischaemiaâ€“reperfusion injury in the heart by targeting the mitochondrial permeability transition pore. <i>Cardiovascular Research</i> , 2014, 104, 24-36.	1.8	136
56	Cross Talk of Combined Gene and Cell Therapy in Ischemic Heart Disease. <i>Circulation</i> , 2014, 130, S60-9.	1.6	190
57	Treatment Options of Metastatic Brain Tumors from Hepatocellular Carcinoma: Surgical Resection vs. Gamma Knife Radiosurgery vs. Whole Brain Radiation Therapy. <i>Brain Tumor Research and Treatment</i> , 2013, 1, 78.	0.4	10
58	Irradiation Alters MMP-2/TIMP-2 System and Collagen Type IV Degradation in Brain. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1559-1566.	0.4	69
59	Whole Brain Radiation-Induced Cognitive Impairment: Pathophysiological Mechanisms and Therapeutic Targets. <i>Biomolecules and Therapeutics</i> , 2012, 20, 357-370.	1.1	68
60	Microfluidic Single-Cell Analysis Shows That Porcine Induced Pluripotent Stem Cellâ€“Derived Endothelial Cells Improve Myocardial Function by Paracrine Activation. <i>Circulation Research</i> , 2012, 111, 882-893.	2.0	106
61	Radiation Attenuates Physiological Angiogenesis by Differential Expression of VEGF, Ang-1, Tie-2 and Ang-2 in Rat Brain. <i>Radiation Research</i> , 2011, 176, 753-760.	0.7	35
62	AT1 Receptor Antagonism Does Not Influence Early Radiation-Induced Changes in Microglial Activation or Neurogenesis in the Normal Rat Brain. <i>Radiation Research</i> , 2011, 176, 71.	0.7	22
63	Role of NADPH oxidase in interleukin-4-induced monocyte chemoattractant protein-1 expression in vascular endothelium. <i>Inflammation Research</i> , 2010, 59, 755-765.	1.6	18
64	Irradiation induces regionally specific alterations in pro-inflammatory environments in rat brain. <i>International Journal of Radiation Biology</i> , 2010, 86, 132-144.	1.0	162
65	Ageing attenuates radiation-induced expression of pro-inflammatory mediators in rat brain. <i>Neuroscience Letters</i> , 2010, 476, 89-93.	1.0	35
66	Oxidative mechanisms of IL-4-induced IL-6 expression in vascular endothelium. <i>Cytokine</i> , 2010, 49, 73-79.	1.4	30
67	Interleukin-4, Oxidative Stress, Vascular Inflammation and Atherosclerosis. <i>Biomolecules and Therapeutics</i> , 2010, 18, 135-144.	1.1	53
68	A novel in vitro ischemia/reperfusion injury model. <i>Archives of Pharmacal Research</i> , 2009, 32, 421-429.	2.7	11
69	ILâ€“4 induces interleukinâ€“6 (ILâ€“6) expression in human aortic endothelial cells. <i>FASEB Journal</i> , 2008, 22, 964.3.	0.2	0
70	A novel double-layer parallel-plate flow chamber. , 2007, , .		0
71	Cyclin-dependent protein kinase 2 activity is required for mitochondrial translocation of Bax and disruption of mitochondrial transmembrane potential during etoposide-induced apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007, 12, 1229-1241.	2.2	22
72	Chlorpyrifos induces proâ€“inflammatory environment in discrete regions of mouse brain. <i>FASEB Journal</i> , 2007, 21, A988.	0.2	7

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73	Biomedical research applications of a novel double-layer parallel-plate flow chamber. FASEB Journal, 2007, 21, A1219.	0.2	1
74	A multilayer design of parallel-plate flow chamber for studies of endothelial cell response to fluid shear stress. FASEB Journal, 2007, 21, A484.	0.2	1