

Sang Wook Kang

List of Publications by Year in descending order

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111
papers

1,685
citations

304602

22
h-index

395590

33
g-index

116
all docs

116
docs citations

116
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modification of silica nanoparticles with hydrophilic polymers. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 517-522.	2.9	106
2	Novel Application of Partially Positively Charged Silver Nanoparticles for Facilitated Transport in Olefin/Paraffin Separation Membranes. <i>Chemistry of Materials</i> , 2008, 20, 1308-1311.	3.2	89
3	Poly(vinylpyrrolidone)/KF electrolyte membranes for facilitated CO ₂ transport. <i>Chemical Communications</i> , 2013, 49, 10181.	2.2	65
4	Effect of the polarity of silver nanoparticles induced by ionic liquids on facilitated transport for the separation of propylene/propane mixtures. <i>Journal of Membrane Science</i> , 2008, 322, 281-285.	4.1	62
5	Facilitated CO ₂ transport membranes utilizing positively polarized copper nanoparticles. <i>Chemical Communications</i> , 2012, 48, 5298.	2.2	61
6	Surface Energy- ϵ Level Tuning of Silver Nanoparticles for Facilitated Olefin Transport. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2982-2985.	7.2	50
7	Silver Nanowire Networks: Mechano-Electric Properties and Applications. <i>Materials</i> , 2019, 12, 2526.	1.3	43
8	Highly selective poly(ethylene oxide)/ionic liquid electrolyte membranes containing CrO ₃ for CO ₂ /N ₂ separation. <i>Chemical Engineering Journal</i> , 2019, 356, 312-317.	6.6	42
9	Highly Permeable Graphene Oxide/Polyelectrolytes Hybrid Thin Films for Enhanced CO ₂ /N ₂ Separation Performance. <i>Scientific Reports</i> , 2017, 7, 456.	1.6	36
10	Highly permeable PEBA _X -1657 membranes to have long-term stability for facilitated olefin transport. <i>Chemical Engineering Journal</i> , 2018, 333, 276-279.	6.6	31
11	Suppression of silver ion reduction by Al(NO ₃) ₃ complex and its application to highly stabilized olefin transport membranes. <i>Journal of Membrane Science</i> , 2013, 445, 156-159.	4.1	28
12	1-Butyl-3-methylimidazolium tetrafluoroborate/zinc oxide composite membrane for high CO ₂ separation performance. <i>Chemical Engineering Journal</i> , 2017, 320, 50-54.	6.6	28
13	Highly porous and thermally stable cellulose acetate to utilize hydrated glycerin. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 79-84.	2.9	27
14	Ionic liquid as a solvent and the long-term separation performance in a polymer/silver salt complex membrane. <i>Macromolecular Research</i> , 2007, 15, 167-172.	1.0	26
15	Highly permeable and selective CO ₂ separation membrane to utilize 5-hydroxyisophthalic acid in poly(ethylene oxide) matrix. <i>Chemical Engineering Journal</i> , 2018, 334, 1749-1753.	6.6	26
16	Enhanced olefin carrier activity of clean surface silver nanoparticles for facilitated transport membranes. <i>Journal of Membrane Science</i> , 2009, 332, 1-5.	4.1	25
17	Facile control of nanoporosity in Cellulose Acetate using Nickel(II) nitrate additive and water pressure treatment for highly efficient battery gel separators. <i>Scientific Reports</i> , 2017, 7, 1287.	1.6	25
18	Effect of ionic liquids on dissociation of copper flake into copper nanoparticles and its application to facilitated olefin transport membranes. <i>Journal of Membrane Science</i> , 2011, 374, 43-48.	4.1	24

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19	Silver nanoparticles stabilized by crosslinked poly(vinyl pyrrolidone) and its application for facilitated olefin transport. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 83-86.	5.0	24
20	Highly permeable and stabilized olefin transport membranes based on a poly(ethylene oxide) matrix and Al(NO ₃) ₃ . <i>Journal of Membrane Science</i> , 2015, 474, 273-276.	4.1	24
21	Metallic copper incorporated ionic liquids toward maximizing CO ₂ separation properties. <i>Separation and Purification Technology</i> , 2013, 112, 49-53.	3.9	23
22	Spray-assisted layer-by-layer self-assembly of tertiary-amine-stabilized gold nanoparticles and graphene oxide for efficient CO ₂ capture. <i>Journal of Membrane Science</i> , 2020, 601, 117905.	4.1	23
23	Porous cellulose acetate membranes prepared by water pressure-assisted process for water-treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 421-424.	2.9	22
24	Activated copper nanoparticles by 1-butyl-3-methyl imidazolium nitrate for CO ₂ separation. <i>Chemical Engineering Journal</i> , 2014, 252, 263-266.	6.6	20
25	Effect of Ag ₂ O nanoparticles on long-term stable polymer/AgBF ₄ /Al(NO ₃) ₃ complex membranes for olefin/paraffin separation. <i>Chemical Engineering Journal</i> , 2017, 327, 500-504.	6.6	20
26	Nanocomposite membranes consisting of poly(ethylene oxide)/ionic liquid/ZnO for CO ₂ separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 85, 75-80.	2.9	20
27	Accelerated CO ₂ transport on surface of AgO nanoparticles in ionic liquid BMIMBF ₄ . <i>Scientific Reports</i> , 2015, 5, 16362.	1.6	18
28	Activated Ag ions and enhanced gas transport by incorporation of KIT-6 for facilitated olefin transport membranes. <i>Journal of Membrane Science</i> , 2016, 513, 95-100.	4.1	18
29	Durable poly(vinyl alcohol)/AgBF ₄ /Al(NO ₃) ₃ complex membrane with high permeance for propylene/propane separation. <i>Separation and Purification Technology</i> , 2017, 174, 39-43.	3.9	18
30	Synthesis of Monodisperse Copper Nanoparticles by Utilizing 1-Butyl-3-methylimidazolium Nitrate and Its Role as Counteranion in Ionic Liquid in the Formation of Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 794-797.	1.8	17
31	The platform effect of graphene oxide on CO ₂ transport on copper nanocomposites in ionic liquids. <i>Chemical Engineering Journal</i> , 2014, 251, 343-347.	6.6	17
32	Cost-effective facilitated olefin transport membranes consisting of polymer/AgCF ₃ SO ₃ /Al(NO ₃) ₃ with long-term stability. <i>Journal of Membrane Science</i> , 2015, 495, 61-64.	4.1	17
33	Surface tuned copper nanoparticles by 1-methyl-3-octylimidazolium tetrafluoroborate and its applications to facilitated CO ₂ transport. <i>Chemical Engineering Journal</i> , 2014, 235, 252-256.	6.6	16
34	Nanoassembly of Block Copolymer Micelle and Graphene Oxide to Multilayer Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3095-3099.	1.8	15
35	Threshold silver concentration for facilitated olefin transport in polymer/silver salt membranes. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	15
36	Water treatment by polysulfone membrane modified with tetrahydrofuran and water pressure. <i>Macromolecular Research</i> , 2016, 24, 1020-1023.	1.0	15

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37	Effect of 4-hydroxybenzoic acid on CO ₂ separation performance of poly(ethylene oxide) membrane. <i>Macromolecular Research</i> , 2016, 24, 1111-1114.	1.0	15
38	Preparation of highly stable cellulose separator by incorporation of lactic acid. <i>Cellulose</i> , 2021, 28, 10055-10063.	2.4	15
39	Olefin separation via charge transfer and dipole formation at the silver nanoparticle-tetracyanoquinoid interface. <i>RSC Advances</i> , 2014, 4, 30156-30161.	1.7	14
40	Chemical Activation of AgNO ₃ to Form Olefin Complexes Induced by Strong Coordinative Interactions with Phthalate Oxygens of Poly(ethylene phthalate). <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4011-4014.	1.8	13
41	Eco-friendly process for facile pore control in thermally stable cellulose acetate utilizing zinc(II) nitrate for water-treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 88-92.	2.9	13
42	Molecular interactions of polyimides with single-walled carbon nanotubes. <i>Polymer Chemistry</i> , 2013, 4, 290-295.	1.9	12
43	Highly permeable poly(ethylene oxide) with silver nanoparticles for facilitated olefin transport. <i>RSC Advances</i> , 2014, 4, 4905.	1.7	12
44	Facilitated CO ₂ transport and barrier effect through ionic liquid modified with cyanuric chloride. <i>RSC Advances</i> , 2014, 4, 16917.	1.7	12
45	CO ₂ separation through poly(vinylidene fluoride-co-hexafluoropropylene) membrane by selective ion channel formed by tetrafluoroboric acid. <i>Chemical Engineering Journal</i> , 2016, 306, 1189-1192.	6.6	12
46	Role of LiBF ₄ in Ionic Liquid Membranes for Facilitated CO ₂ Transport. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2832-2835.	0.9	12
47	Control of nanoporous polymer matrix by an ionic liquid and water pressure for applications to water-treatment and separator. <i>Chemical Engineering Journal</i> , 2016, 284, 37-40.	6.6	12
48	Highly CO ₂ selective membranes by potassium cations as carriers for facilitated transport with Ag ₂ O particles and free ions in ionic liquid. <i>Chemical Engineering Journal</i> , 2017, 320, 29-33.	6.6	12
49	Highly permeable ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate (BMIMBF ₄)/CuO composite membrane for CO ₂ separation. <i>RSC Advances</i> , 2017, 7, 33568-33571.	1.7	12
50	PEBAX-1657/Ag nanoparticles/7,7,8,8-tetracyanoquinodimethane complex for highly permeable composite membranes with long-term stability. <i>Scientific Reports</i> , 2019, 9, 4266.	1.6	12
51	Enhancement of facilitated olefin transport by amino acid in silver-polymer complex membranes. <i>Chemical Communications</i> , 2003, , 768-769.	2.2	11
52	Complexation of phthalate oxygens in poly(ethylene phthalate) with silver ions and its effect on the formation of silver nanoparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3344-3350.	2.4	11
53	Behavior of Inorganic Nanoparticles in Silver Polymer Electrolytes and Their Effects on Silver Ion Activity for Facilitated Olefin Transport. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8650-8654.	1.8	11
54	Control of gas permeability by transforming the molecular structure of silk fibroin in multilayered nanocoatings for CO ₂ adsorptive separation. <i>Journal of Membrane Science</i> , 2019, 573, 554-559.	4.1	11

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55	Cellulose acetate containing CaO coated on polypropylene for enhanced thermal stability of separator. <i>Chemical Communications</i> , 2021, 57, 4388-4391.	2.2	11
56	Development of low-cost process for pore generation in cellulose acetate by utilizing calcium salts. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 419-424.	2.9	11
57	Propylene sorption and coordinative interactions for poly(4-vinyl pyrrolidone-co-vinyl) Tj ETQq1 1 0.784314 rgBT / 2263-2269.	2.4	10
58	Novel composite membranes comprising silver salts physically dispersed in poly(ethylene-co-propylene) for the separation of propylene/propane. <i>Macromolecular Research</i> , 2007, 15, 343-347.	1.0	10
59	Poly(oxyethylene methacrylate)-poly(4-vinyl pyridine) comb-like polymer electrolytes for solid-state dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 513-520.	1.2	10
60	Highly permeable ionic liquid membrane by both facilitated transport and the increase of diffusivity through porous materials. <i>RSC Advances</i> , 2015, 5, 69698-69701.	1.7	10
61	Evaluation the separation performance of various gases for polysulfone hollow fiber membrane module as a function of stage cut. <i>Macromolecular Research</i> , 2017, 25, 352-356.	1.0	10
62	Porous Cellulose Acetate by Specific Solvents with Water Pressure Treatment for Applications to Separator and Membranes. <i>Macromolecular Research</i> , 2018, 26, 630-633.	1.0	10
63	CO ₂ Separation with Polymer/Aniline Composite Membranes. <i>Polymers</i> , 2020, 12, 1363.	2.0	10
64	Piezoelectric composite of BaTiO ₃ -coated SnO ₂ microsphere: Li-ion battery anode with enhanced electrochemical performance based on accelerated Li ⁺ mobility. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159267.	2.8	10
65	1-Methyl-3-octylimidazolium tetrafluoroborate/AgO nanoparticles composite membranes for facilitated gas transport. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 666-668.	1.2	9
66	Insulin release bio-platform from all nano-container assembled thin films. <i>Materials Science and Engineering C</i> , 2012, 32, 1988-1992.	3.8	8
67	CO ₂ Separation Membranes Consisting of Ionic Liquid/CdO Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5817-5821.	0.9	8
68	Effect of functional group ratio in PEBAX copolymer on propylene/propane separation for facilitated olefin transport membranes. <i>Scientific Reports</i> , 2019, 9, 11454.	1.6	8
69	Effect of Ionic Radius in Metal Nitrate on Pore Generation of Cellulose Acetate in Polymer Nanocomposite. <i>Polymers</i> , 2020, 12, 981.	2.0	8
70	Formation of Water-Channel by Propylene Glycol into Polymer for Porous Materials. <i>Membranes</i> , 2021, 11, 881.	1.4	8
71	Accelerated CO ₂ transport on the surface-tuned Ag nanoparticles by p-benzoquinone. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 311-316.	2.9	8
72	Thermally stable and highly porous separator based on cellulose acetate by glycolic acid. <i>Polymer</i> , 2022, 242, 124592.	1.8	8

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73	Enhanced Electrical Properties of Epoxy Resin with High Adhesion. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15713-15717.	1.8	7
74	Synthesis of Poly(vinyl chloride)- <i>g</i> -Poly(ionic liquid) and Its Application to Tuning Surface for Copper Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9607-9611.	1.8	7
75	Hybrid effect of Ag ions and polarized Ag nanoparticles in poly(ethylene oxide)/AgBF ₄ /ionic liquid composites for long-term stable membranes. <i>Polymer Composites</i> , 2019, 40, 2745-2750.	2.3	7
76	Preparation and Characterization of PEBAX-5513/AgBF ₄ /BMIMBF ₄ Membranes for Olefin/Paraffin Separation. <i>Polymers</i> , 2020, 12, 1550.	2.0	7
77	Correlation between Functional Group and Formation of Nanoparticles in PEBAX/Ag Salt/Al Salt Complexes for Olefin Separation. <i>Polymers</i> , 2020, 12, 667.	2.0	7
78	Interconnected channels through polypropylene and cellulose acetate by utilizing lactic acid for stable separators. <i>Chemical Communications</i> , 2021, 57, 8965-8968.	2.2	7
79	A strong linear correlation between the surface charge density on Ag nanoparticles and the amount of propylene adsorbed. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6987.	5.2	6
80	Highly selective polymer electrolyte membranes consisting of poly(2-ethyl-2-oxazoline) and Cu(NO ₃) ₂ for SF ₆ separation. <i>Scientific Reports</i> , 2016, 6, 20430.	1.6	6
81	Effective pore control and enhanced strength of cellulose acetate using polyethylene glycol for improved battery stability. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1715-1719.	1.2	6
82	Role of p-benzoquinone for dispersion of silver nanoparticles in silver-polymer nanocomposite membranes. <i>Macromolecular Research</i> , 2010, 18, 705-708.	1.0	5
83	Nano-container assembled thin films with time-programmed release of hydrophobic dyes. <i>Journal of Polymer Research</i> , 2011, 18, 2005-2009.	1.2	5
84	Poly(ethylene oxide)/Ag ions and nanoparticles/1-hexyl-3-methylimidazolium tetrafluoroborate composite membranes with long-term stability for olefin/paraffin separation. <i>RSC Advances</i> , 2019, 9, 4771-4775.	1.7	5
85	1-Butyl-3-methylimidazolium tetrafluoroborate/Al ₂ O ₃ Composite Membrane for CO ₂ Separation. <i>Membrane Journal</i> , 2017, 27, 226-231.	0.2	5
86	Blocking chemical warfare agent simulants by graphene oxide/polymer multilayer membrane based on hydrogen bonding and size sieving effect. <i>Journal of Hazardous Materials</i> , 2022, 427, 127884.	6.5	5
87	Facile fabrication of colloidal particles based on the electrostatic aggregation of block copolymer micelles. <i>Chemical Engineering Journal</i> , 2010, 165, 354-357.	6.6	4
88	Enhanced Separation Performance of Stabilized Olefin Transport Membranes with High-Molecular-Weight Poly(ethylene oxide). <i>Macromolecular Research</i> , 2019, 27, 511-514.	1.0	4
89	CO ₂ separation using composites consisting of 1-butyl-3-methylimidazolium tetrafluoroborate/CdO/1-aminopyridinium iodide. <i>Scientific Reports</i> , 2019, 9, 16563.	1.6	4
90	Enhanced Olefin and CO ₂ Permeance Through Mesopore-Confined Ionic Liquid Membrane. <i>Macromolecular Research</i> , 2019, 27, 250-254.	1.0	4

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91	Structural Effect of Ionic Liquid on Long-Term Stability in Poly(ethylene oxide)/Ag Ions/Ag Nanoparticles Composite for Olefin Separation. <i>Macromolecular Research</i> , 2020, 28, 445-449.	1.0	4
92	Effect of 1-butyl-3-methylimidazolium nitrate on separation properties of polymer/AgNO ₃ membranes for propylene/propane mixtures: Comparison between poly(2-ethyl-2-oxazoline) and poly(ethylene terephthalate). <i>Journal of Membrane Science</i> , 2020, 610, 118-127.	1.0	0
93	Enhanced CO ₂ transport through rod-shaped Al ₂ O ₃ nanoparticles for ionic liquid composite membranes. <i>Polymer Composites</i> , 2019, 40, 2954-2958.	2.3	3
94	Comparison of functional groups in polymer/Ag nanoparticles/electron acceptor composite membranes for olefin/paraffin separation. <i>Polymer Composites</i> , 2019, 40, 1165-1169.	2.3	3
95	Stable cellulose-separator with CaO on nanoporous polypropylene by water-treated channels. <i>Polymer</i> , 2022, 247, 124781.	1.8	3
96	Synthesis of highly positively polarized silver nanoparticles in poly(ethylene phthalate)/AgBF ₄ composite. <i>Macromolecular Research</i> , 2011, 19, 413-416.	1.0	2
97	Highly polarized anatase TiO ₂ nanoparticles by poly(ethylene phthalate). <i>Macromolecular Research</i> , 2011, 19, 948-950.	1.0	2
98	Facile synthesis of Cu nanoparticles by utilizing ethanolanmonium sulfate for facilitated gas transport. <i>Chemical Engineering Journal</i> , 2013, 228, 642-645.	6.6	2
99	Preparation of a Cellulose Column for Enhancing the Sensing Efficiency of the Biocide 2-n-Octyl-4-Isothiazolin-3-One. <i>Polymers</i> , 2020, 12, 2712.	2.0	2
100	Preparation and characterization of porous cellulose acetate with copper (II) nitrate additives for separator applications. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 921-924.	1.2	2
101	Synthesis of surface-tuned polyacrylonitrile particles and its application to CO ₂ separation. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 155-160.	2.9	2
102	Effect of coordination number on the formation of silver nanoparticles in polymer/silver salt complex membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 896-900.	2.9	1
103	Preparation of Nanoporous Polymer Membranes Utilizing Water Pressure and Solvent Mixtures. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7151-7154.	0.9	1
104	Long-Term Stable 1-butyl-3-methylimidazolium Hexafluorophosphate/Ag Metal Composite Membranes for Facilitated Olefin Transport. <i>Membranes</i> , 2020, 10, 191.	1.4	1
105	Facile pore control by NMP-dipping method with water-pressure. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 2064-2067.	1.2	1
106	Enhanced Olefin Transport by SiO ₂ Particles for Polymer/Ag Metal/Electron Acceptor Composite Membranes. <i>Polymers</i> , 2020, 12, 2316.	2.0	1
107	Structural control of polysulfone membrane by using dimethylacetamide and water-pressure for water treatment. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1585-1588.	1.2	1
108	Polarized Silver Nanoparticles by Ionic Liquid and Its Application to Facilitated Olefin Transport Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1006, 12.	0.1	0

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109	Pore formation in crystalline polymer film with organic solvent and water-pressure for applications to water-treatment and separator. Chemical Engineering Journal, 2016, 283, 869-872.	6.6	0
110	Processes to enhance the sensitivity of sensor for 2- <i>n</i> -Octyl-4-isothiazolin-3-one as biocide. AICHE Journal, 2021, 67, e17224.	1.8	0
111	Preparation of PEBAx-5513/Ag Nanoparticles/7,7,8,8-tetracyanoquinodimethane Composites for Olefin Separation and Analysis of Anions. Membrane Journal, 2019, 29, 246-251.	0.2	0