Baoli Shi

List of Publications by Year
in descending order

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55	831	567144	526166
papers	citations	15	27
		h-index	g-index

55	55	55	1062
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of Membrane Materials for Ethanol Recovery by Pervaporation. Separation Science and Technology, 2010, 46, 234-246.	1.3	145
2	Comparison of Dorrisâ€“Gray and Schultz methods for the calculation of surface dispersive free energy by inverse gas chromatography. Journal of Chromatography A, 2011, 1218, 860-862.	1.8	75
3	Preparation of PDMSâ€”Silica Nanocomposite Membranes with Silane Coupling for Recovering Ethanol by Pervaporation. Separation Science and Technology, 2011, 46, 420-427.	1.3	63
4	Investigation on interfacial interaction of flame retarded and glass fiber reinforced PA66 composites by IGC/DSC/SEM. Polymer, 2008, 49, 1049-1055.	1.8	39
5	Determination of Flory interaction parameters between polyimide and organic solvents by HSP theory and IGC. Polymer Bulletin, 2008, 61, 501-509.	1.7	30
6	Surface Lewis acidâ€“base properties of polymers measured by inverse gas chromatography. Journal of Chromatography A, 2007, 1149, 390-393.	1.8	29
7	Pervaporation separation of ethanol/water mixture using modified zeolite filled <scp>PDMS</scp> membranes. Journal of Applied Polymer Science, 2015, 132, .	1.3	29
8	Study on the integrated membrane processes of dehumidification of compressed air and vapor permeation processes. Journal of Membrane Science, 2002, 196, 179-183.	4.1	26
9	A New Equation between Surface Tensions and Solubility Parameters without Molar Volume Parameters Simultaneously Fitting Polymers and Solvents. Journal of Macromolecular Science - Physics, 2011, 50, 1042-1046.	0.4	25
10	Research on the strengths of electrostatic and van der Waals interactions in ionic liquids. Journal of Molecular Liquids, 2017, 241, 486-488.	2.3	25
11	Hollow fiber supported liquid membrane for extraction of ethylbenzene and nitrobenzene from aqueous solution: A Hansen Solubility Parameter approach. Separation and Purification Technology, 2009, 65, 233-242.	3.9	23
12	Investigation on Three-Dimensional Solubility Parameters for Explanation and Prediction of Swelling Degree of Polydimethylsiloxane Pervaporation Membranes. Journal of Macromolecular Science - Physics, 2015, 54, 1248-1258.	0.4	19
13	Effect of silane coupling agents with different non-hydrolytic groups on tensile modulus of composite PDMS crosslinked membranes. Reactive and Functional Polymers, 2016, 98, 1-8.	2.0	18
14	Vapor permeation separation of MeOH/MTBE through polyimide/sulfonated poly(ether-sulfone) hollow-fiber membranes. Desalination, 2004, 161, 59-66.	4.0	17
15	Surface characterization of chitin by inverse gas chromatography. Carbohydrate Polymers, 2007, 67, 398-402.	5.1	17
16	Surface characterization of nylon 66 by inverse gas chromatography and contact angle. Polymer Testing, 2006, 25, 970-974.	2.3	14
17	Removal of Volatile Organic Compounds from Water by Pervaporation Using Polyetherimide-Polyethersulfone Blend Hollow Fiber Membranes. Separation Science and Technology, 2009, 44, 1737-1752.	1.3	14
18	Comparison of Surface Tension Components and Hansen Solubility Parameters Theories. Part I: Explanation of Protein Adsorption on Polymers. Journal of Macromolecular Science - Physics, 2010, 49, 383-391.	0.4	13

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19	A novel method for determining surface free energy of powders using Washburn's equation without calculating capillary factor and contact angle. Powder Technology, 2015, 271, 88-92.	2.1	13
20	A Selective Colorimetric Sensor for Pb2+ Detection by Using Phenylboronic Acid Functionalized Polydiacetylene Liposomes. Macromolecular Research, 2020, 28, 51-56.	1.0	13
21	Concentration of gelatin solution with polyethersulfone ultrafiltration membranes. Food and Bioproducts Processing, 2011, 89, 163-169.	1.8	12
22	Optimization of Preparation Conditions for PDMS-Silica Composite Pervaporation Membranes Using Response Surface Methodology. Separation Science and Technology, 2011, 46, 2211-2222.	1.3	12
23	Effects of coagulation bath temperature on performances of polyethersulfone membranes modified by nanosilver particles in situ reduction. Polymer Engineering and Science, 2013, 53, 1614-1622.	1.5	11
24	Relationship between Hansen Solubility Parameters of ABS and its Homopolymer Components of PAN, PB, and PS. Journal of Macromolecular Science - Physics, 2010, 49, 864-869.	0.4	10
25	Performance of various Si/Al ratios of <scp>ZSM</scp>â€5â€filled polydimethylsiloxane/polyethersulfone membrane in butanol recovery by pervaporation. Advances in Polymer Technology, 2018, 37, 3095-3105.	0.8	10
26	Lewis acidâ€“base property of P(VDF-co-HFP) measured by inverse gas chromatography. Journal of Applied Polymer Science, 2008, 107, 1642-1646.	1.3	9
27	A method for improving the calculation accuracy of acidâ€“base constants by inverse gas chromatography. Journal of Chromatography A, 2012, 1231, 73-76.	1.8	9
28	Quantitative analysis of interfacial tension effect on the impact strength of organic flame retardants and acrylonitrileâ€butadieneâ€styrene blends. Journal of Applied Polymer Science, 2012, 124, 1815-1823.	1.3	9
29	Influence of molecular weight of polydimethylsiloxane precursors and crosslinking content on degree of ethanol swelling of crosslinked networks. Reactive and Functional Polymers, 2015, 86, 264-268.	2.0	9
30	The strengths of van der Waals and electrostatic forces in 1-alkyl-3-methylimidazolium ionic liquids obtained through Lifshitz theory and Coulomb formula. Journal of Molecular Liquids, 2020, 320, 114412.	2.3	9
31	Relationship between Hansen Solubility Parameters and Lewis Acidâ€“Base Parameters of Polymers. Journal of Macromolecular Science - Physics, 2008, 47, 378-383.	0.4	8
32	Study on preparation and performances of cellulose acetate forward osmosis membrane. Chemical Papers, 2018, 72, 3159-3167.	1.0	8
33	Problem in the molecular area of polar probe molecules used in inverse gas chromatography. Journal of Chromatography A, 2019, 1601, 385-387.	1.8	6
34	Concentration of benzylpenicillin sodium by polyimide nanofiltration membrane. Journal of Applied Polymer Science, 2007, 104, 3077-3081.	1.3	5
35	Surface characterization of polyethersulfone by inverse gas chromatography. Polymer Bulletin, 2007, 59, 647-653.	1.7	5
36	Preparation of polysulfone ultrafiltration membranes modified by silver particles. Desalination and Water Treatment, 2013, 51, 3762-3767.	1.0	5

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37	Adsorption Properties of Î²â€Cyclodextrin for Adsorbing Aromatic Hydrocarbons from the Gas Phase and Water. Journal of Macromolecular Science - Physics, 2007, 47, 211-216.	0.4	4
38	Relationship between Hansen Solubility Parameters and Lewis Acidâ€Base Parameters of Solvents. Journal of Macromolecular Science - Physics, 2007, 47, 174-179.	0.4	4
39	EFFECT OF ACIDâ€"BASE PROPERTY OF INORGANIC NANOPARTICLES ON ANTIFOULING PERFORMANCE OF PVDF COMPOSITE ULTRAFILTRATION MEMBRANES. Surface Review and Letters, 2009, 16, 415-419.	0.5	4
40	Relationship between Dispersive Surface Tension and Density and Molecular Weight of Solvents and Polymers. Journal of Macromolecular Science - Physics, 2010, 50, 376-382.	0.4	4
41	Connection between dielectric constant and total number of hydrogen-bond groups per cationâ€"anion pair in ionic liquids. Journal of Molecular Liquids, 2020, 299, 112216.	2.3	4
42	Determination of the solubility parameter of cellulose acrylate using inverse gas chromatography. Science Bulletin, 2007, 52, 3051-3055.	1.7	3
43	Effect of Isomeric Propanols on the Performances of Polyethersulfone Nanofiltration Membranes. Separation Science and Technology, 2009, 44, 3876-3887.	1.3	3
44	Preparation of Anti-Fouling Polyethersulfone Ultrafiltration Membrane by an External High Voltage Electric Enhancing Method. Separation Science and Technology, 2010, 45, 2280-2286.	1.3	3
45	Comparison of Surface Tension Components and Hansen Solubility Parameters Theories (II): Different Viewpoints for Dispersive Force of Cyclohexane. Journal of Macromolecular Science - Physics, 2010, 49, 366-370.	0.4	3
46	Relationship Between Total Surface Tension of Monomer and Its Homopolymer. Journal of Macromolecular Science - Physics, 2011, 50, 952-955.	0.4	3
47	Influence of Diameter on Surface Dispersive Free Energy of Polyethersulfone Nano-fibers. Journal of Adhesion Science and Technology, 2012, 26, 353-360.	1.4	3
48	Accounting for the degree of swelling in polyimides with a free volume distribution theory. Journal of Membrane Science, 2005, 264, 122-128.	4.1	2
49	Explanation for Hydrogen Bonds of Chitinâ€Alcohols from Lewis Acidâ€Base Theories. Journal of Macromolecular Science - Physics, 2007, 46, 1033-1039.	0.4	2
50	Preparation of a Nanosilver Composite Plant Medium with Antimicrobial Capability through a Nontoxic Method. Nanomaterials and Nanotechnology, 2015, 5, 21.	1.2	2
51	Surface characterization of ashtree wood meal by inverse gas chromatography. Science Bulletin, 2007, 52, 1178-1181.	1.7	1
52	A Preliminary Study of the Relationship between Lewis Acidâ€"Base Parameters and Structure of Polymers. Journal of Macromolecular Science - Physics, 2008, 47, 409-414.	0.4	1
53	A New Inverse GC Method for Separating Surface Retention Volume from Total Retention Volume for Characterization of the Surface Properties of Polymers at Temperatures above T g. Chromatographia, 2009, 69, 567-570.	0.7	1
54	Surface characterization of glass fiber by inverse gas chromatography. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 687-690.	0.4	0

#	Article	IF	Citations
55	Inverse gas chromatography as a tool for screening materials: The relation between Lewis acidâ€“base constants and triboelectric charge density of polymers. Journal of Chromatography A, 2022, 1675, 463131.	1.8	0