

Baoli Shi

List of Publications by Year in descending order

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55
papers

831
citations

567144

15
h-index

526166

27
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55
all docs

55
docs citations

55
times ranked

1062
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse gas chromatography as a tool for screening materials: The relation between Lewis acid–base constants and triboelectric charge density of polymers. <i>Journal of Chromatography A</i> , 2022, 1675, 463131.	1.8	0
2	A Selective Colorimetric Sensor for Pb ²⁺ Detection by Using Phenylboronic Acid Functionalized Polydiacetylene Liposomes. <i>Macromolecular Research</i> , 2020, 28, 51-56.	1.0	13
3	Connection between dielectric constant and total number of hydrogen-bond groups per cation–anion pair in ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 299, 112216.	2.3	4
4	The strengths of van der Waals and electrostatic forces in 1-alkyl-3-methylimidazolium ionic liquids obtained through Lifshitz theory and Coulomb formula. <i>Journal of Molecular Liquids</i> , 2020, 320, 114412.	2.3	9
5	Problem in the molecular area of polar probe molecules used in inverse gas chromatography. <i>Journal of Chromatography A</i> , 2019, 1601, 385-387.	1.8	6
6	Performance of various Si/Al ratios of ZSM-5 filled polydimethylsiloxane/polyethersulfone membrane in butanol recovery by pervaporation. <i>Advances in Polymer Technology</i> , 2018, 37, 3095-3105.	0.8	10
7	Study on preparation and performances of cellulose acetate forward osmosis membrane. <i>Chemical Papers</i> , 2018, 72, 3159-3167.	1.0	8
8	Research on the strengths of electrostatic and van der Waals interactions in ionic liquids. <i>Journal of Molecular Liquids</i> , 2017, 241, 486-488.	2.3	25
9	Effect of silane coupling agents with different non-hydrolytic groups on tensile modulus of composite PDMS crosslinked membranes. <i>Reactive and Functional Polymers</i> , 2016, 98, 1-8.	2.0	18
10	Preparation of a Nanosilver Composite Plant Medium with Antimicrobial Capability through a Nontoxic Method. <i>Nanomaterials and Nanotechnology</i> , 2015, 5, 21.	1.2	2
11	Pervaporation separation of ethanol/water mixture using modified zeolite filled PDMS membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	29
12	Influence of molecular weight of polydimethylsiloxane precursors and crosslinking content on degree of ethanol swelling of crosslinked networks. <i>Reactive and Functional Polymers</i> , 2015, 86, 264-268.	2.0	9
13	Investigation on Three-Dimensional Solubility Parameters for Explanation and Prediction of Swelling Degree of Polydimethylsiloxane Pervaporation Membranes. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 1248-1258.	0.4	19
14	A novel method for determining surface free energy of powders using Washburn's equation without calculating capillary factor and contact angle. <i>Powder Technology</i> , 2015, 271, 88-92.	2.1	13
15	Effects of coagulation bath temperature on performances of polyethersulfone membranes modified by nanosilver particles <i>in situ</i> reduction. <i>Polymer Engineering and Science</i> , 2013, 53, 1614-1622.	1.5	11
16	Preparation of polysulfone ultrafiltration membranes modified by silver particles. <i>Desalination and Water Treatment</i> , 2013, 51, 3762-3767.	1.0	5
17	Influence of Diameter on Surface Dispersive Free Energy of Polyethersulfone Nano-fibers. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 353-360.	1.4	3
18	A method for improving the calculation accuracy of acid–base constants by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2012, 1231, 73-76.	1.8	9

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19	Quantitative analysis of interfacial tension effect on the impact strength of organic flame retardants and acrylonitrile-butadiene-styrene blends. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1815-1823.	1.3	9
20	A New Equation between Surface Tensions and Solubility Parameters without Molar Volume Parameters Simultaneously Fitting Polymers and Solvents. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 1042-1046.	0.4	25
21	Concentration of gelatin solution with polyethersulfone ultrafiltration membranes. <i>Food and Bioproducts Processing</i> , 2011, 89, 163-169.	1.8	12
22	Comparison of Dorris-Gray and Schultz methods for the calculation of surface dispersive free energy by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 860-862.	1.8	75
23	Optimization of Preparation Conditions for PDMS-Silica Composite Pervaporation Membranes Using Response Surface Methodology. <i>Separation Science and Technology</i> , 2011, 46, 2211-2222.	1.3	12
24	Relationship Between Total Surface Tension of Monomer and Its Homopolymer. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 952-955.	0.4	3
25	Preparation of PDMS-Silica Nanocomposite Membranes with Silane Coupling for Recovering Ethanol by Pervaporation. <i>Separation Science and Technology</i> , 2011, 46, 420-427.	1.3	63
26	Preparation of Anti-Fouling Polyethersulfone Ultrafiltration Membrane by an External High Voltage Electric Enhancing Method. <i>Separation Science and Technology</i> , 2010, 45, 2280-2286.	1.3	3
27	Relationship between Dispersive Surface Tension and Density and Molecular Weight of Solvents and Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2010, 50, 376-382.	0.4	4
28	Comparison of Surface Tension Components and Hansen Solubility Parameters Theories (II): Different Viewpoints for Dispersive Force of Cyclohexane. <i>Journal of Macromolecular Science - Physics</i> , 2010, 49, 366-370.	0.4	3
29	Comparison of Surface Tension Components and Hansen Solubility Parameters Theories. Part I: Explanation of Protein Adsorption on Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2010, 49, 383-391.	0.4	13
30	A Review of Membrane Materials for Ethanol Recovery by Pervaporation. <i>Separation Science and Technology</i> , 2010, 46, 234-246.	1.3	145
31	Relationship between Hansen Solubility Parameters of ABS and its Homopolymer Components of PAN, PB, and PS. <i>Journal of Macromolecular Science - Physics</i> , 2010, 49, 864-869.	0.4	10
32	Removal of Volatile Organic Compounds from Water by Pervaporation Using Polyetherimide-Polyethersulfone Blend Hollow Fiber Membranes. <i>Separation Science and Technology</i> , 2009, 44, 1737-1752.	1.3	14
33	Effect of Isomeric Propanols on the Performances of Polyethersulfone Nanofiltration Membranes. <i>Separation Science and Technology</i> , 2009, 44, 3876-3887.	1.3	3
34	EFFECT OF ACID-BASE PROPERTY OF INORGANIC NANOPARTICLES ON ANTIFOULING PERFORMANCE OF PVDF COMPOSITE ULTRAFILTRATION MEMBRANES. <i>Surface Review and Letters</i> , 2009, 16, 415-419.	0.5	4
35	Hollow fiber supported liquid membrane for extraction of ethylbenzene and nitrobenzene from aqueous solution: A Hansen Solubility Parameter approach. <i>Separation and Purification Technology</i> , 2009, 65, 233-242.	3.9	23
36	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 . <i>Chromatographia</i> , 2009, 69, 567-570.	0.7	1

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37	Investigation on interfacial interaction of flame retarded and glass fiber reinforced PA66 composites by IGC/DSC/SEM. <i>Polymer</i> , 2008, 49, 1049-1055.	1.8	39
38	Determination of Flory interaction parameters between polyimide and organic solvents by HSP theory and IGC. <i>Polymer Bulletin</i> , 2008, 61, 501-509.	1.7	30
39	Surface characterization of glass fiber by inverse gas chromatography. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 687-690.	0.4	0
40	Lewis acidâ€“base property of P(VDF-co-HFP) measured by inverse gas chromatography. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1642-1646.	1.3	9
41	Relationship between Hansen Solubility Parameters and Lewis Acidâ€“Base Parameters of Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 378-383.	0.4	8
42	A Preliminary Study of the Relationship between Lewis Acidâ€“Base Parameters and Structure of Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 409-414.	0.4	1
43	Explanation for Hydrogen Bonds of Chitinâ€“Alcohols from Lewis Acidâ€“Base Theories. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 1033-1039.	0.4	2
44	Adsorption Properties of Î²â€“Cyclodextrin for Adsorbing Aromatic Hydrocarbons from the Gas Phase and Water. <i>Journal of Macromolecular Science - Physics</i> , 2007, 47, 211-216.	0.4	4
45	Relationship between Hansen Solubility Parameters and Lewis Acidâ€“Base Parameters of Solvents. <i>Journal of Macromolecular Science - Physics</i> , 2007, 47, 174-179.	0.4	4
46	Concentration of benzylpenicillin sodium by polyimide nanofiltration membrane. <i>Journal of Applied Polymer Science</i> , 2007, 104, 3077-3081.	1.3	5
47	Surface characterization of chitin by inverse gas chromatography. <i>Carbohydrate Polymers</i> , 2007, 67, 398-402.	5.1	17
48	Surface Lewis acidâ€“base properties of polymers measured by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2007, 1149, 390-393.	1.8	29
49	Surface characterization of polyethersulfone by inverse gas chromatography. <i>Polymer Bulletin</i> , 2007, 59, 647-653.	1.7	5
50	Surface characterization of ashtree wood meal by inverse gas chromatography. <i>Science Bulletin</i> , 2007, 52, 1178-1181.	1.7	1
51	Determination of the solubility parameter of cellulose acrylate using inverse gas chromatography. <i>Science Bulletin</i> , 2007, 52, 3051-3055.	1.7	3
52	Surface characterization of nylon 66 by inverse gas chromatography and contact angle. <i>Polymer Testing</i> , 2006, 25, 970-974.	2.3	14
53	Accounting for the degree of swelling in polyimides with a free volume distribution theory. <i>Journal of Membrane Science</i> , 2005, 264, 122-128.	4.1	2
54	Vapor permeation separation of MeOH/MTBE through polyimide/sulfonated poly(ether-sulfone) hollow-fiber membranes. <i>Desalination</i> , 2004, 161, 59-66.	4.0	17

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55	Study on the integrated membrane processes of dehumidification of compressed air and vapor permeation processes. <i>Journal of Membrane Science</i> , 2002, 196, 179-183.	4.1	26