Anita Hill

List of Publications by Year
in descending order

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		13068	14156
237	18,559	68	128
papers	citations	h-index	g-index

249	249	249	16763
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas transport characteristics of supramolecular networks of metal-coordinated highly branched Poly(ethylene oxide). Journal of Membrane Science, 2022, 644, 120063.	4.1	10
2	Lithium Extraction by Emerging Metalâ€“Organic Frameworkâ€Based Membranes. Advanced Functional Materials, 2021, 31, 2105991.	7.8	79
3	Tuning the Hierarchical Structure and Resilience of Resilin-like Polypeptide Hydrogels Using Graphene Oxide. ACS Applied Bio Materials, 2020, 3, 8688-8697.	2.3	8
4	Engineered Porous Nanocomposites That Deliver Remarkably Low Carbon Capture Energy Costs. Cell Reports Physical Science, 2020, 1, 100070.	2.8	26
5	Efficient metal ion sieving in rectifying subnanochannels enabled by metalâ€“organic frameworks. Nature Materials, 2020, 19, 767-774.	13.3	275
6	Role of free volume in molecular mobility and performance of glassy polymers for corrosion-protective coatings. Corrosion Engineering Science and Technology, 2020, 55, 145-158.	0.7	11
7	Highly Polar but Amorphous Polymers with Robust Membrane CO2/N2 Separation Performance. Joule, 2019, 3, 1881-1894.	11.7	60
8	A Sustainable Biomineralization Approach for the Synthesis of Highly Fluorescent Ultra-Small Pt Nanoclusters. Biosensors, 2019, 9, 128.	2.3	15
9	Fast and selective fluoride ion conduction in sub-1-nanometer metal-organic framework channels. Nature Communications, 2019, 10, 2490.	5.8	158
10	Quench Sensitivity in a Dispersoid-Containing Al-Mg-Si Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1957-1969.	1.1	18
11	Evolution of the Interfacial Structure of a Catalyst Ink with the Quality of the Dispersing Solvent: A Contrast Variation Small-Angle and Ultrasmall-Angle Neutron Scattering Investigation. ACS Applied Materials & Interfaces, 2019, 11, 9934-9946.	4.0	65
12	Flux melting of metalâ€“organic frameworks. Chemical Science, 2019, 10, 3592-3601.	3.7	67
13	Unexpectedly Strong Size-Sieving Ability in Carbonized Polybenzimidazole for Membrane H₂/CO₂ Separation. ACS Applied Materials & Interfaces, 2019, 11, 47365-47372.	4.0	63
14	Triptycene-containing poly(benzoxazole-co-imide) membranes with enhanced mechanical strength for high-performance gas separation. Journal of Membrane Science, 2018, 551, 305-314.	4.1	59
15	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. Science Advances, 2018, 4, eaaq0066.	4.7	368
16	Structural evolution of photocrosslinked silk fibroin and silk fibroin-based hybrid hydrogels: A small angle and ultra-small angle scattering investigation. International Journal of Biological Macromolecules, 2018, 114, 998-1007.	3.6	35
17	Effects of a volatile solvent with low surface tension combining with the silica network reinforcement on retention of LLC structure in polymer matrix. Polymer Bulletin, 2018, 75, 581-595.	1.7	2
18	Metal-organic framework glasses with permanent accessible porosity. Nature Communications, 2018, 9, 5042.	5.8	147

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19	Effect of fixed charge group concentration on salt permeability and diffusion coefficients in ion exchange membranes. Journal of Membrane Science, 2018, 566, 307-316.	4.1	34
20	Highly Selective and Permeable Microporous Polymer Membranes for Hydrogen Purification and CO₂ Removal from Natural Gas. Chemistry of Materials, 2018, 30, 5322-5332.	3.2	121
21	Centimetre-scale micropore alignment in oriented polycrystalline metalâ€“organic framework films via heteroepitaxial growth. Nature Materials, 2017, 16, 342-348.	13.3	298
22	Magnetic Induction Framework Synthesis: A General Route to the Controlled Growth of Metalâ€“Organic Frameworks. Chemistry of Materials, 2017, 29, 6186-6190.	3.2	34
23	Linking the structures, free volumes, and properties of ionic liquid mixtures. Chemical Science, 2017, 8, 6359-6374.	3.7	74
24	Analysis of governing factors controlling gas transport through fresh and aged triptycene-based polyimide films. Journal of Membrane Science, 2017, 522, 12-22.	4.1	37
25	A Robust Metalâ€“Organic Framework for Dynamic Lightâ€Induced Swing Adsorption of Carbon Dioxide. Chemistry - A European Journal, 2016, 22, 11176-11179.	1.7	55
26	Metalâ€Organicâ€Frameworkâ€Coated Optical Fibers as Lightâ€Triggered Drug Delivery Vehicles. Advanced Functional Materials, 2016, 26, 3244-3249.	7.8	88
27	Magnetic Metalâ€“Organic Frameworks for Efficient Carbon Dioxide Capture and Remote Trigger Release. Advanced Materials, 2016, 28, 1839-1844.	11.1	107
28	Facile stabilization of cyclodextrin metalâ€“organic frameworks under aqueous conditions via the incorporation of C₆₀ in their matrices. Chemical Communications, 2016, 52, 5973-5976.	2.2	81
29	UiO-66 MOF end-face-coated optical fiber in aqueous contaminant detection. Optics Letters, 2016, 41, 1696.	1.7	33
30	Finely Tuning the Free Volume Architecture in Iptycene-Containing Polyimides for Highly Selective and Fast Hydrogen Transport. Macromolecules, 2016, 49, 3395-3405.	2.2	60
31	Nanocrack-regulated self-humidifying membranes. Nature, 2016, 532, 480-483.	13.7	362
32	Molecular origins of fast and selective gas transport in pentiptycene-containing polyimide membranes and their physical aging behavior. Journal of Membrane Science, 2016, 518, 100-109.	4.1	52
33	Magnetic Induction Swing Adsorption: An Energy Efficient Route to Porous Adsorbent Regeneration. Chemistry of Materials, 2016, 28, 6219-6226.	3.2	59
34	Effects of Crowding and Environment on the Evolution of Conformational Ensembles of the Multi-Stimuli-Responsive Intrinsically Disordered Protein, Rec1-Resilin: A Small-Angle Scattering Investigation. Journal of Physical Chemistry B, 2016, 120, 6490-6503.	1.2	22
35	MaLISA â€“ a cooperative method to release adsorbed gases from metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 18757-18762.	5.2	46
36	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. Chemical Communications, 2016, 52, 13556-13559.	2.2	55

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37	Visible Light Triggered CO₂ Liberation from Silver Nanocrystals Incorporated Metalâ€“Organic Frameworks. Advanced Functional Materials, 2016, 26, 4815-4821.	7.8	53
38	Porosity in metalâ€“organic framework glasses. Chemical Communications, 2016, 52, 3750-3753.	2.2	76
39	Effects of quench rate and natural ageing on the age hardening behaviour of aluminium alloy AA6060. Materials Characterization, 2016, 111, 43-52.	1.9	36
40	Structural effects on SAPO-34 and ZIF-8 materials exposed to seawater solutions, and their potential as desalination membranes. Desalination, 2016, 377, 128-137.	4.0	62
41	Membranes: Chlorine Resistant Glutaraldehyde Crosslinked Polyelectrolyte Multilayer Membranes for Desalination (Adv. Mater. 17/2015). Advanced Materials, 2015, 27, 2811-2811.	11.1	4
42	Gasâ€Separation Membranes Loaded with Porous Aromatic Frameworks that Improve with Age. Angewandte Chemie, 2015, 127, 2707-2711.	1.6	33
43	Structural ensembles reveal intrinsic disorder for the multi-stimuli responsive bio-mimetic protein Rec1-resilin. Scientific Reports, 2015, 5, 10896.	1.6	34
44	Enhanced Gas Permeation through Graphene Nanocomposites. Journal of Physical Chemistry C, 2015, 119, 13700-13712.	1.5	70
45	Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules. Nature Communications, 2015, 6, 7240.	5.8	1,077
46	Positron annihilation lifetime spectroscopy (PALS): a probe for molecular organisation in self-assembled biomimetic systems. Physical Chemistry Chemical Physics, 2015, 17, 17527-17540.	1.3	26
47	Packing and mobility of hydrocarbon chains in phospholipid lyotropic liquid crystalline lamellar phases and liposomes: characterisation by positron annihilation lifetime spectroscopy (PALS). Physical Chemistry Chemical Physics, 2015, 17, 276-286.	1.3	8
48	Application of positron annihilation lifetime spectroscopy (PALS) to study the nanostructure in amphiphile self-assembly materials: phytantriol cubosomes and hexosomes. Physical Chemistry Chemical Physics, 2015, 17, 1705-1715.	1.3	13
49	Gasâ€Separation Membranes Loaded with Porous Aromatic Frameworks that Improve with Age. Angewandte Chemie - International Edition, 2015, 54, 2669-2673.	7.2	175
50	Post-synthetic Ti Exchanged UiO-66 Metal-Organic Frameworks that Deliver Exceptional Gas Permeability in Mixed Matrix Membranes. Scientific Reports, 2015, 5, 7823.	1.6	168
51	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO₂ Capture. Chemistry of Materials, 2015, 27, 4756-4762.	3.2	107
52	Tunable Thermoresponsiveness of Resilin via Coassembly with Rigid Biopolymers. Langmuir, 2015, 31, 8882-8891.	1.6	22
53	Effect of polymer structure on gas transport properties of selected aromatic polyimides, polyamides and TR polymers. Journal of Membrane Science, 2015, 493, 766-781.	4.1	63
54	Membranes with artificial free-volume for biofuel production. Nature Communications, 2015, 6, 7529.	5.8	38

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55	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. Macromolecules, 2015, 48, 2603-2613.	2.2	90
56	Water vapor permeation through cellulose acetate membranes and its impact upon membrane separation performance for natural gas purification. Journal of Membrane Science, 2015, 487, 249-255.	4.1	66
57	Analytical Diffusion Mechanism (ADiM) model combining specular, Knudsen and surface diffusion. Journal of Membrane Science, 2015, 485, 1-9.	4.1	18
58	Positioning of the HKUST-1 metalâ€“organic framework (Cu₃(BTC)₂) through conversion from insoluble Cu-based precursors. Inorganic Chemistry Frontiers, 2015, 2, 434-441.	3.0	54
59	Chlorine Resistant Glutaraldehyde Crosslinked Polyelectrolyte Multilayer Membranes for Desalination. Advanced Materials, 2015, 27, 2791-2796.	11.1	128
60	A multi-responsive intrinsically disordered protein (IDP)-directed green synthesis of fluorescent gold nanoclusters. Journal of Materials Chemistry B, 2015, 3, 6580-6586.	2.9	13
61	ZnO as an Efficient Nucleating Agent for Rapid, Room Temperature Synthesis and Patterning of Zn-Based Metalâ€“Organic Frameworks. Chemistry of Materials, 2015, 27, 690-699.	3.2	60
62	Polyimide-silica solâ€“gel membranes from a novel alkoxysilane functionalized polyimide: preparation, characterization and gas separation properties. Journal of Sol-Gel Science and Technology, 2014, 72, 464-479.	1.1	3
63	Investigation of the chemical and morphological structure of thermally rearranged polymers. Polymer, 2014, 55, 6649-6657.	1.8	32
64	Free volume characterization of sulfonated styrenic pentablock copolymers using positron annihilation lifetime spectroscopy. Journal of Membrane Science, 2014, 453, 425-434.	4.1	45
65	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO2 and CH4 gas permeation. Separation and Purification Technology, 2014, 122, 96-104.	3.9	128
66	Ending Aging in Super Glassy Polymer Membranes. Angewandte Chemie - International Edition, 2014, 53, 5322-5326.	7.2	275
67	Effect of heat treatment on pervaporation separation of aqueous salt solution using hybrid PVA/MA/TEOS membrane. Separation and Purification Technology, 2014, 127, 10-17.	3.9	54
68	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. Journal of Membrane Science, 2014, 453, 126-135.	4.1	88
69	Using Functional Nano- and Microparticles for the Preparation of Metalâ€“Organic Framework Composites with Novel Properties. Accounts of Chemical Research, 2014, 47, 396-405.	7.6	264
70	Retention of the original LLC structure in a cross-linked poly(ethylene glycol) diacrylate hydrogel with reinforcement from a silica network. Soft Matter, 2014, 10, 5192-5200.	1.2	8
71	Ionic liquids as porogens for molecularly imprinted polymers: propranolol, a model study. Organic and Biomolecular Chemistry, 2014, 12, 7201-7210.	1.5	36
72	An16-resilin: An advanced multi-stimuli-responsive resilin-mimetic protein polymer. Acta Biomaterialia, 2014, 10, 4768-4777.	4.1	43

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73	Slow hydrophobic hydration induced polymer ultrafiltration membranes with high water flux. Journal of Membrane Science, 2014, 471, 27-34.	4.1	32
74	Copper Conversion into Cu(OH)₂ Nanotubes for Positioning Cu₃(BTC)₂ MOF Crystals: Controlling the Growth on Flat Plates, 3D Architectures, and as Patterns. Advanced Functional Materials, 2014, 24, 1969-1977.	7.8	150
75	MOF positioning technology and device fabrication. Chemical Society Reviews, 2014, 43, 5513-5560.	18.7	600
76	Spray Assembled, Cross-Linked Polyelectrolyte Multilayer Membranes for Salt Removal. Langmuir, 2014, 30, 8784-8790.	1.6	21
77	The transport of hydronium and hydroxide ions through reverse osmosis membranes. Journal of Membrane Science, 2014, 459, 197-206.	4.1	25
78	3D Spatially Controlled Chemical Functionalization on Alumina Membranes. Science of Advanced Materials, 2014, 6, 1520-1524.	0.1	0
79	Convective transport of boron through a brackish water reverse osmosis membrane. Journal of Membrane Science, 2013, 445, 160-169.	4.1	40
80	Combining UV Lithography and an Imprinting Technique for Patterning Metalâ€Organic Frameworks. Advanced Materials, 2013, 25, 4701-4705.	11.1	98
81	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. Macromolecules, 2013, 46, 8179-8189.	2.2	112
82	Architecturing Nanospace via Thermal Rearrangement for Highly Efficient Gas Separations. Journal of Physical Chemistry C, 2013, 117, 24654-24661.	1.5	14
83	Applications of magnetic metalâ€“organic framework composites. Journal of Materials Chemistry A, 2013, 1, 13033.	5.2	275
84	Positioning an individual metalâ€“organic framework particle using a magnetic field. Journal of Materials Chemistry C, 2013, 1, 42-45.	2.7	51
85	Analytical representation of micropores for predicting gas adsorption in porous materials. Microporous and Mesoporous Materials, 2013, 167, 188-197.	2.2	17
86	Designing hierarchical porous features of ZSM-5 zeolites via Si/Al ratio and their dynamic behavior in seawater ion complexes. Microporous and Mesoporous Materials, 2013, 173, 78-85.	2.2	23
87	Probing the amphiphile micellar to hexagonal phase transition using Positron Annihilation Lifetime Spectroscopy. Journal of Colloid and Interface Science, 2013, 402, 173-179.	5.0	9
88	Formation of a thick aromatic polyamide membrane by interfacial polymerisation. Separation and Purification Technology, 2013, 104, 276-283.	3.9	67
89	A high volume and low damage route to hydroxyl functionalization of carbon nanotubes using hard X-ray lithography. Carbon, 2013, 51, 430-434.	5.4	15
90	High Performance Hydrogen Storage from Be-BTB Metalâ€“Organic Framework at Room Temperature. Langmuir, 2013, 29, 8524-8533.	1.6	41

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91	Water vapor sorption and free volume in the aromatic polyamide layer of reverse osmosis membranes. Journal of Membrane Science, 2013, 425-426, 217-226.	4.1	69
92	Strategies toward Enhanced Low-Pressure Volumetric Hydrogen Storage in Nanoporous Cryoadsorbents. Langmuir, 2013, 29, 15689-15697.	1.6	11
93	Role of Defects in the High Ionic Conductivity of Choline Triflate Plastic Crystal and Its Acid-Containing Compositions. Journal of Physical Chemistry C, 2013, 117, 5532-5543.	1.5	26
94	Characterization of Aluminum-Neutralized Sulfonated Styrenic Pentablock Copolymer Films. Industrial & Engineering Chemistry Research, 2013, 52, 1056-1068.	1.8	47
95	Modulation of the Photophysical Properties of Pyrene by the Microstructures of Five Poly(alkyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.3	9
96	Simultaneous Microfabrication and Tuning of the Permselective Properties in Microporous Polymers Using Xâ€ray Lithography. Small, 2013, 9, 2277-2282.	5.2	12
97	Discriminative Separation of Gases by a â€œMolecular Trapdoorâ€•Mechanism in Chabazite Zeolites. Journal of the American Chemical Society, 2012, 134, 19246-19253.	6.6	321
98	Tailoring the Chain Packing in Ultrathin Polyelectrolyte Films Formed by Sequential Adsorption: Nanoscale Probing by Positron Annihilation Spectroscopy. Journal of the American Chemical Society, 2012, 134, 19808-19819.	6.6	22
99	Tuning microcavities in thermally rearranged polymer membranes for CO2 capture. Physical Chemistry Chemical Physics, 2012, 14, 4365.	1.3	126
100	Microfabrication of mesoporous silica encapsulated enzymes using deep X-ray lithography. Journal of Materials Chemistry, 2012, 22, 16191.	6.7	13
101	Structure retention in cross-linked poly(ethylene glycol) diacrylate hydrogel templated from a hexagonal lyotropic liquid crystal by controlling the surface tension. Soft Matter, 2012, 8, 2087-2094.	1.2	26
102	Ultra-thin hybrid polyhedral silsesquioxaneâ€“polyamide films with potentially unlimited 2D dimensions. Journal of Materials Chemistry, 2012, 22, 14835.	6.7	52
103	Magnetic framework composites for polycyclic aromatic hydrocarbon sequestration. Journal of Materials Chemistry, 2012, 22, 11470.	6.7	62
104	The thickness dependence of Matrimid films in water vapor permeation. Chemical Engineering Journal, 2012, 209, 301-312.	6.6	30
105	Feasibility of zeolitic imidazolate framework membranes for clean energy applications. Energy and Environmental Science, 2012, 5, 7637.	15.6	154
106	Vacancy Behavior and Solute Cluster Growth During Natural Aging of an Al-Mg-Si Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4507-4513.	1.1	43
107	Using Plasticizers to Control the Hydrocarbon Selectivity of a Poly(Methyl Methacrylate)-Coated Quartz Crystal Microbalance Sensor. Analytical Chemistry, 2012, 84, 8564-8570.	3.2	27
108	In-cage and out-of-cage combinations of benzylic radical pairs in the glassy and melted states of poly(alkyl methacrylate)s. Photochemical and Photobiological Sciences, 2012, 11, 914-924.	1.6	7

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109	Top-down patterning of Zeolitic Imidazolate Framework composite thin films by deep X-ray lithography. Chemical Communications, 2012, 48, 7483.	2.2	51
110	Highly Luminescent Metalâ€“Organic Frameworks Through Quantum Dot Doping. Small, 2012, 8, 80-88.	5.2	132
111	Methane storage in metal organic frameworks. Journal of Materials Chemistry, 2012, 22, 16698.	6.7	153
112	Rapid Detection of Hendra Virus Using Magnetic Particles and Quantum Dots. Advanced Healthcare Materials, 2012, 1, 631-634.	3.9	18
113	Patterning Techniques for Metal Organic Frameworks. Advanced Materials, 2012, 24, 3153-3168.	11.1	111
114	Lithiated Porous Aromatic Frameworks with Exceptional Gas Storage Capacity. Angewandte Chemie - International Edition, 2012, 51, 6639-6642.	7.2	112
115	Sequential homoâ€interpenetrating polymer networks of poly(2â€hydroxyethyl methacrylate): Synthesis, characterization, and calcium uptake. Journal of Applied Polymer Science, 2012, 126, E455.	1.3	10
116	Modeling of the sorption and transport properties of water vapor in polyimide membranes. Journal of Membrane Science, 2012, 409-410, 96-104.	4.1	52
117	Complete Characterization of Î±-Hopeite Microparticles: An Ideal Nucleation Seed for Metal Organic Frameworks. Crystal Growth and Design, 2011, 11, 5268-5274.	1.4	19
118	Method for Optimizing Coating Properties Based on an Evolutionary Algorithm Approach. Analytical Chemistry, 2011, 83, 6373-6380.	3.2	9
119	Kinetics of natural aging in Al-Mg-Si alloys studied by positron annihilation lifetime spectroscopy. Physical Review B, 2011, 83, .	1.1	144
120	Fast Synthesis of MOF-5 Microcrystals Using Solâˆ'Gel SiO₂ Nanoparticles. Chemistry of Materials, 2011, 23, 929-934.	3.2	106
121	Role of ethanol in sodalite crystallization in an ethanolâ€“Na2Oâ€“Al2O3â€“SiO2â€“H2O system. CrystEngComm, 2011, 13, 4714.	1.3	28
122	The impact of water and hydrocarbon concentration on the sensitivity of a polymer-based quartz crystal microbalance sensor for organic compounds. Analytica Chimica Acta, 2011, 703, 70-79.	2.6	14
123	A new method to position and functionalize metal-organic framework crystals. Nature Communications, 2011, 2, 237.	5.8	225
124	Effect of Free Volume on Water and Salt Transport Properties in Directly Copolymerized Disulfonated Poly(arylene ether sulfone) Random Copolymers. Macromolecules, 2011, 44, 4428-4438.	2.2	133
125	The effect of hydration on molecular chain mobility and the viscoelastic behavior of resilin-mimetic protein-based hydrogels. Biomaterials, 2011, 32, 8462-8473.	5.7	66
126	Synthesis and characterization of hybrid organicâ€“inorganic materials based on sulphonated polyamideimide and silica. Journal of Polymer Research, 2011, 18, 965-973.	1.2	10

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127	Influence of the relative humidity on aminosilane molecular grafting properties. Journal of Sol-Gel Science and Technology, 2011, 60, 246-253.	1.1	3
128	Self-organization, interfacial interaction and photophysical properties of gold nanoparticle complexes derived from resilin-mimetic fluorescent protein rec1-resilin. Biomaterials, 2011, 32, 2786-2796.	5.7	46
129	Dynamic Control of MOFâ€5 Crystal Positioning Using a Magnetic Field. Advanced Materials, 2011, 23, 3901-3906.	11.1	64
130	Nanostructures generated from photopolymerization of poly(ethylene glycol) diacrylate templated from hexagonal lyotropic liquid crystals. Journal of Applied Polymer Science, 2011, 120, 1817-1821.	1.3	4
131	A Genetically Engineered Protein Responsive to Multiple Stimuli. Angewandte Chemie - International Edition, 2011, 50, 4428-4431.	7.2	93
132	Reaction mechanism and products of the thermal conversion of hydroxy-containing polyimides. European Polymer Journal, 2011, 47, 394-400.	2.6	27
133	Cavity size, sorption and transport characteristics of thermally rearranged (TR) polymers. Polymer, 2011, 52, 2244-2254.	1.8	97
134	Lithography of porous materials for device fabrication. , 2011, , .		0
135	Characterization of sodium chloride and water transport in crosslinked poly(ethylene oxide) hydrogels. Journal of Membrane Science, 2010, 358, 131-141.	4.1	160
136	Natural Aging in Alâ€Mgâ€Si Alloys â€“ A Process of Unexpected Complexity. Advanced Engineering Materials, 2010, 12, 559-571.	1.6	189
137	Nafionâ€“Carbon Nanocomposite Membranes Prepared Using Hydrothermal Carbonization for Protonâ€Exchangeâ€Membrane Fuel Cells. Advanced Functional Materials, 2010, 20, 4394-4399.	7.8	99
138	Thermally rearranged (TR) polymer membranes for CO2 separation. Journal of Membrane Science, 2010, 359, 11-24.	4.1	330
139	Synthesis of hierarchical porous zeolite NaY particles with controllable particle sizes. Microporous and Mesoporous Materials, 2010, 127, 167-175.	2.2	146
140	A pH-responsive interface derived from resilin-mimetic protein Rec1-resilin. Biomaterials, 2010, 31, 4434-4446.	5.7	53
141	Predictive Control of Screen Process Efficiency. International Journal of Coal Preparation and Utilization, 2010, 30, 83-99.	1.2	2
142	In Situ Crystallization of Macroporous Monoliths with Hollow NaP Zeolite Structure. Chemistry of Materials, 2010, 22, 5271-5278.	3.2	51
143	Thermally Rearranged (TR) Polybenzoxazole: Effects of Diverse Imidization Routes on Physical Properties and Gas Transport Behaviors. Macromolecules, 2010, 43, 7657-7667.	2.2	226
144	Vacancy Diffusion with Time-Dependent Length Scale: An Insightful New Model for Physical Aging in Polymers. Industrial & Engineering Chemistry Research, 2010, 49, 12119-12124.	1.8	31

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145	Lithium-functionalised silicananoparticles for enhanced ionic conductivity in an organic ionic plastic crystal. Journal of Materials Chemistry, 2010, 20, 338-344.	6.7	24
146	A mathematical investigation into nanoscale gas separation: Effects of pore size and temperature. , 2010, , .		3
147	Investigation of the effects of ion and water interaction on structure and chemistry of silicalite MFI type zeolite for its potential use as a seawater desalination membrane. Journal of Materials Chemistry, 2010, 20, 4675.	6.7	43
148	Formation of highly oriented biodegradable polybutylene succinate adipate nanocomposites: Effects of cation structures on morphology, free volume, and properties. Journal of Applied Polymer Science, 2009, 113, 3716-3724.	1.3	19
149	New relation between diffusion and free volume: II. Predicting vacancy diffusion. Journal of Membrane Science, 2009, 338, 38-42.	4.1	30
150	Mesoporous carbon confined conversion of silica nanoparticles into zeolite nanocrystals. Microporous and Mesoporous Materials, 2009, 117, 490-496.	2.2	12
151	Advanced fitting algorithms for analysing positron annihilation lifetime spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 456-466.	0.7	56
152	Predicting gas diffusion regime within pores of different size, shape and composition. Journal of Membrane Science, 2009, 336, 101-108.	4.1	69
153	New relation between diffusion and free volume: I. Predicting gas diffusion. Journal of Membrane Science, 2009, 338, 29-37.	4.1	69
154	A variable energy positron annihilation lifetime spectroscopy study of physical aging in thin glassy polymer films. Polymer, 2009, 50, 6149-6156.	1.8	97
155	Physical approaches for fabrication of organized nanostructure of resilin-mimetic elastic protein rec1-resilin. Biomaterials, 2009, 30, 4868-4876.	5.7	41
156	Micropore Characterization of Mesocellular Foam and Hybrid Organic Functional Mesocellular Foam Materials. Journal of Physical Chemistry C, 2009, 113, 21283-21292.	1.5	7
157	Internal and external surface characterisation of templating processes for ordered mesoporous silicas and carbons. Journal of Materials Chemistry, 2009, 19, 2215.	6.7	14
158	Metalâ^'Organic Frameworks Impregnated with Magnesium-Decorated Fullerenes for Methane and Hydrogen Storage. Journal of the American Chemical Society, 2009, 131, 10662-10669.	6.6	134
159	Positron Annihilation Lifetime Spectroscopy (PALS) as a Characterization Technique for Nanostructured Self-Assembled Amphiphile Systems. Journal of Physical Chemistry B, 2009, 113, 84-91.	1.2	38
160	Surprising effect of nanoparticle inclusion on ion conductivity in a lithium doped organic ionic plastic crystal. Journal of Materials Chemistry, 2009, 19, 1635.	6.7	33
161	Thermal treatment of dense polyimide membranes. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1879-1890.	2.4	50
162	A Phenomenological Study of the Metalâ€"Oxide Interface: The Role of Catalysis in Hydrogen Production from Renewable Resources. ChemSusChem, 2008, 1, 905-910.	3.6	85

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163	Exposing the Molecular Sieving Architecture of Amorphous Silica Using Positron Annihilation Spectroscopy. Advanced Functional Materials, 2008, 18, 3818-3826.	7.8	69
164	Crosslinking poly[1-(trimethylsilyl)-1-propyne] and its effect on physical stability. Journal of Membrane Science, 2008, 320, 123-134.	4.1	80
165	Effect of pyrolysis temperature and operating temperature on the performance of nanoporous carbon membranes. Journal of Membrane Science, 2008, 322, 19-27.	4.1	87
166	Predicting particle transport through an aging polymer using vacancy diffusion. Current Applied Physics, 2008, 8, 501-503.	1.1	2
167	Structural, sorption and transport characteristics of an ultrapermeable polymer. Journal of Membrane Science, 2008, 314, 15-23.	4.1	33
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