

# Cara M Doherty

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120  
papers

6,636  
citations

46  
h-index

79  
g-index

129  
ext. papers

7,779  
ext. citations

9.9  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
120	Gas transport characteristics of supramolecular networks of metal-coordinated highly branched Poly(ethylene oxide). <i>Journal of Membrane Science</i> , <b>2021</b> , 120063	9.6	3
119	Free volume manipulation of a 6FDA-HAB polyimide using a solid-state protection/deprotection strategy. <i>Polymer</i> , <b>2021</b> , 212, 123121	3.9	4
118	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6593-6599	16.4	10
117	Isolable 1-Butene Copper(I) Complexes and 1-Butene/Butane Separation Using Structurally Adaptable Copper Pyrazolates. <i>ChemPlusChem</i> , <b>2021</b> , 86, 364-372	2.8	3
116	Leveraging Free Volume Manipulation to Improve the Membrane Separation Performance of Amine-Functionalized PIM-1. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6667-6673	3.6	3
115	Stable MOF@enzyme composites for electrochemical biosensing devices. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7677-7688	7.1	6
114	Metal-organic frameworks for chemical sensing devices. <i>Materials Horizons</i> , <b>2021</b> , 8, 2387-2419	14.4	25
113	Ionic liquids and plastic crystals utilising the oxazolidinium cation: the effect of ether functionality in the ring. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6014-6026	7.8	0
112	Enhancing polyimide-based mixed matrix membranes performance for CO <sub>2</sub> separation containing PAF-1 and p-DCX. <i>Separation and Purification Technology</i> , <b>2021</b> , 268, 118677	8.3	0
111	The influence of propane and n-butane on the structure and separation performance of cellulose acetate membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119677	9.6	5
110	Multiscale structural control of linked metal-organic polyhedra gel by aging-induced linkage-reorganization. <i>Chemical Science</i> , <b>2021</b> , 12, 12556-12563	9.4	8
109	Fabricating Bioactive 3D Metal-Organic Framework Devices. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000659	9.59	4
108	Probing the Design Rationale of a High-Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19729-19737	3.6	2
107	Probing the Design Rationale of a High-Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19561-19569	16.4	6
106	Greatly Enhanced Gas Selectivity in Mixed-Matrix Membranes through Size-Controlled Hyper-cross-linked Polymer Additives. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13773-13782	3.9	7
105	Advancing Metal-Organic Frameworks toward Smart Sensing: Enhanced Fluorescence by a Photonic Metal-Organic Framework for Organic Vapor Sensing. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000961	8.1	12
104	Highly permeable and selective mixed-matrix membranes for hydrogen separation containing PAF-1. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14713-14720	13	12

103	Origin of CO-philic Sorption by Graphene Oxide Layered Nanosheets and Their Derivatives. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2356-2362	6.4	2
102	Coordination cages as permanently porous ionic liquids. <i>Nature Chemistry</i> , <b>2020</b> , 12, 270-275	17.6	75
101	Understanding the transport enhancement of poly (vinyl alcohol) based hybrid membranes with dispersed nanochannels for pervaporation application. <i>Journal of Membrane Science</i> , <b>2020</b> , 603, 118005	9.6	14
100	Plastic Crystals Utilising Small Ammonium Cations and Sulfonylimide Anions as Electrolytes for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 070529	3.9	12
99	Insights into Nitrogenase Bioelectrocatalysis for Green Ammonia Production. <i>ChemSusChem</i> , <b>2020</b> , 13, 4856-4865	8.3	8
98	Facile and Time-Efficient Carboxylic Acid Functionalization of PIM-1: Effect on Molecular Packing and Gas Separation Performance. <i>Macromolecules</i> , <b>2020</b> , 53, 6220-6234	5.5	13
97	Physical Aging Investigations of a Spirobisindane-Locked Polymer of Intrinsic Microporosity <b>2020</b> , 2, 993-998		6
96	ZIF-C for targeted RNA interference and CRISPR/Cas9 based gene editing in prostate cancer. <i>Chemical Communications</i> , <b>2020</b> , 56, 15406-15409	5.8	13
95	A Systematic Study of the Stability of Enzyme/Zeolitic Imidazolate Framework-8 Composites in Various Biologically Relevant Solutions. <i>ChemistrySelect</i> , <b>2020</b> , 5, 13766-13774	1.8	4
94	Tailoring molecular interactions between microporous polymers in high performance mixed matrix membranes for gas separations. <i>Nanoscale</i> , <b>2020</b> , 12, 17405-17410	7.7	6
93	Ultrathin poly (vinyl alcohol)/MXene nanofilm composite membrane with facile intrusion-free construction for pervaporative separations. <i>Journal of Membrane Science</i> , <b>2020</b> , 614, 118490	9.6	11
92	The influence of alkyl chain branching on the properties of pyrrolidinium-based ionic electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 18102-18113	3.6	5
91	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16928-16935	16.4	77
90	Organic salts utilising the hexamethylguanidinium cation: the influence of the anion on the structural, physical and thermal properties. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12288-12300	3.6	14
89	High-Performance Polybenzimidazole Membranes for Helium Extraction from Natural Gas. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20098-20103	9.5	14
88	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14222-14232	13	32
87	Highly Polar but Amorphous Polymers with Robust Membrane CO <sub>2</sub> /N <sub>2</sub> Separation Performance. <i>Joule</i> , <b>2019</b> , 3, 1881-1894	27.8	30
86	Polyethylenimine "Snow": An Emerging Material for Efficient Carbon Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26770-26780	9.5	5

85	A Crown Ether-Containing Copolyimide Membrane with Improved Free Volume for CO <sub>2</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14357-14367	3.9	8
84	Predicting trends in structural and physical properties of a model polymer with embedded natural fibers: Viability of molecular dynamics studies for a bottom up design. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 48189	2.9	5
83	Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Framework-8 (ZIF-8). <i>Small</i> , <b>2019</b> , 15, e1902268	11	54
82	Gene Therapy: Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Framework-8 (ZIF-8) (Small 36/2019). <i>Small</i> , <b>2019</b> , 15, 1970193	11	3
81	CUB-5: A Contoured Aliphatic Pore Environment in a Cubic Framework with Potential for Benzene Separation Applications. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3828-3832	16.4	48
80	Flux melting of metal-organic frameworks. <i>Chemical Science</i> , <b>2019</b> , 10, 3592-3601	9.4	37
79	Unexpectedly Strong Size-Sieving Ability in Carbonized Polybenzimidazole for Membrane H <sub>2</sub> /CO Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47365-47372	9.5	32
78	Diffusion of low-molecular-weight permeants through semi-crystalline polymers: combining molecular dynamics with semi-empirical models. <i>Polymer International</i> , <b>2018</b> , 67, 717-725	3.3	9
77	A metal-organic framework with ultrahigh glass-forming ability. <i>Science Advances</i> , <b>2018</b> , 4, eaao6827	14.3	112
76	Triptycene-containing poly(benzoxazole-co-imide) membranes with enhanced mechanical strength for high-performance gas separation. <i>Journal of Membrane Science</i> , <b>2018</b> , 551, 305-314	9.6	38
75	Stress-relaxation heat treatment in FeSiBNb amorphous alloy: Thermal, microstructure, nanomechanical and magnetic texture measurements. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 456, 62-70	2.8	10
74	Highly Selective and Permeable Microporous Polymer Membranes for Hydrogen Purification and CO <sub>2</sub> Removal from Natural Gas. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5322-5332	9.6	67
73	Metal-organic framework glasses with permanent accessible porosity. <i>Nature Communications</i> , <b>2018</b> , 9, 5042	17.4	91
72	Enhanced Polymer Crystallinity in Mixed-Matrix Membranes Induced by Metal-Organic Framework Nanosheets for Efficient CO Capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43095-43103	9.5	42
71	Effect of fixed charge group concentration on salt permeability and diffusion coefficients in ion exchange membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 566, 307-316	9.6	21
70	Transparent Ethenylene-Bridged Polymethylsiloxane Aerogels: Mechanical Flexibility and Strength and Availability for Addition Reaction. <i>Langmuir</i> , <b>2017</b> , 33, 4543-4550	4	32
69	Hyper-Cross-Linked Additives that Impede Aging and Enhance Permeability in Thin Polyacetylene Films for Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14401-14408	9.5	59
68	Organic Microporous Nanofillers with Unique Alcohol Affinity for Superior Ethanol Recovery toward Sustainable Biofuels. <i>ChemSusChem</i> , <b>2017</b> , 10, 1887-1891	8.3	24

67	Biomimetic mineralization of metal-organic frameworks around polysaccharides. <i>Chemical Communications</i> , <b>2017</b> , 53, 1249-1252	5.8	54
66	Double-Sided Electrochromic Device Based on Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39930-39934	9.5	63
65	Linking the structures, free volumes, and properties of ionic liquid mixtures. <i>Chemical Science</i> , <b>2017</b> , 8, 6359-6374	9.4	47
64	Analysis of governing factors controlling gas transport through fresh and aged triptycene-based polyimide films. <i>Journal of Membrane Science</i> , <b>2017</b> , 522, 12-22	9.6	31
63	Thermally rearranged (TR) bismaleimide-based network polymers for gas separation membranes. <i>Chemical Communications</i> , <b>2016</b> , 52, 13556-13559	5.8	46
62	Hypercrosslinked Additives for Ageless Gas-Separation Membranes. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2038-2041	3.6	16
61	Hypercrosslinked Additives for Ageless Gas-Separation Membranes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1998-2001	16.4	81
60	Porosity in metal-organic framework glasses. <i>Chemical Communications</i> , <b>2016</b> , 52, 3750-3	5.8	50
59	Amino acids as biomimetic crystallization agents for the synthesis of ZIF-8 particles. <i>CrystEngComm</i> , <b>2016</b> , 18, 4264-4267	3.3	37
58	Structural effects on SAPO-34 and ZIF-8 materials exposed to seawater solutions, and their potential as desalination membranes. <i>Desalination</i> , <b>2016</b> , 377, 128-137	10.3	52
57	Finely Tuning the Free Volume Architecture in Iptycene-Containing Polyimides for Highly Selective and Fast Hydrogen Transport. <i>Macromolecules</i> , <b>2016</b> , 49, 3395-3405	5.5	46
56	Nanocrack-regulated self-humidifying membranes. <i>Nature</i> , <b>2016</b> , 532, 480-3	50.4	281
55	Transparent, Highly Insulating Polyethyl- and Polyvinylsilsesquioxane Aerogels: Mechanical Improvements by Vulcanization for Ambient Pressure Drying. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6860-6868	9.6	66
54	Molecular origins of fast and selective gas transport in pentiptycene-containing polyimide membranes and their physical aging behavior. <i>Journal of Membrane Science</i> , <b>2016</b> , 518, 100-109	9.6	43
53	Tailoring Physical Aging in Super Glassy Polymers with Functionalized Porous Aromatic Frameworks for CO <sub>2</sub> Capture. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4756-4762	9.6	88
52	Effect of polymer structure on gas transport properties of selected aromatic polyimides, polyamides and TR polymers. <i>Journal of Membrane Science</i> , <b>2015</b> , 493, 766-781	9.6	48
51	Membranes with artificial free-volume for biofuel production. <i>Nature Communications</i> , <b>2015</b> , 6, 7529	17.4	31
50	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes Prepared from ortho-Hydroxycopolyimides Containing Pendant Carboxyl Groups and Gas Separation Properties. <i>Macromolecules</i> , <b>2015</b> , 48, 2603-2613	5.5	72

49	Water vapor permeation through cellulose acetate membranes and its impact upon membrane separation performance for natural gas purification. <i>Journal of Membrane Science</i> , <b>2015</b> , 487, 249-255	9.6	51
48	Ionic transport through a composite structure of N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystals reinforced with polymer nanofibres. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6038-6052	13	37
47	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13700-13712	3.8	62
46	Biomimetic mineralization of metal-organic frameworks as protective coatings for biomacromolecules. <i>Nature Communications</i> , <b>2015</b> , 6, 7240	17.4	747
45	Free volume characterization of sulfonated styrenic pentablock copolymers using positron annihilation lifetime spectroscopy. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 425-434	9.6	37
44	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO <sub>2</sub> and CH <sub>4</sub> gas permeation. <i>Separation and Purification Technology</i> , <b>2014</b> , 122, 96-104	8.3	104
43	Ending aging in super glassy polymer membranes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5322-6	16.4	222
42	Effect of heat treatment on pervaporation separation of aqueous salt solution using hybrid PVA/MA/TEOS membrane. <i>Separation and Purification Technology</i> , <b>2014</b> , 127, 10-17	8.3	44
41	Desalination of seawater ion complexes by MFI-type zeolite membranes: Temperature and long term stability. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 126-135	9.6	81
40	Using functional nano- and microparticles for the preparation of metal-organic framework composites with novel properties. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 396-405	24.3	230
39	Ionic liquids as porogens for molecularly imprinted polymers: propranolol, a model study. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 7201-10	3.9	30
38	Slow hydrophobic hydration induced polymer ultrafiltration membranes with high water flux. <i>Journal of Membrane Science</i> , <b>2014</b> , 471, 27-34	9.6	26
37	MOF positioning technology and device fabrication. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 5513-60	58.5	516
36	Evaluation of coupling protocols to bind beta-glucosidase on magnetic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 6565-73	1.3	4
35	Polyimide-silica sol-gel membranes from a novel alkoxy-silane functionalized polyimide: preparation, characterization and gas separation properties. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 72, 464-479	2.3	3
34	Investigation of the chemical and morphological structure of thermally rearranged polymers. <i>Polymer</i> , <b>2014</b> , 55, 6649-6657	3.9	23
33	Ending Aging in Super Glassy Polymer Membranes. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5426-5430	3.6	40
32	Combining UV lithography and an imprinting technique for patterning metal-organic frameworks. <i>Advanced Materials</i> , <b>2013</b> , 25, 4701-5	24	84

31	Cross-Linked Thermally Rearranged Poly(benzoxazole-co-imide) Membranes for Gas Separation. <i>Macromolecules</i> , <b>2013</b> , 46, 8179-8189	5.5	92
30	Architecturing Nanospace via Thermal Rearrangement for Highly Efficient Gas Separations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 24654-24661	3.8	12
29	Positioning an individual metal-organic framework particle using a magnetic field. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 42-45	7.1	42
28	Designing hierarchical porous features of ZSM-5 zeolites via Si/Al ratio and their dynamic behavior in seawater ion complexes. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 173, 78-85	5.3	19
27	Water vapor sorption and free volume in the aromatic polyamide layer of reverse osmosis membranes. <i>Journal of Membrane Science</i> , <b>2013</b> , 425-426, 217-226	9.6	56
26	Role of Defects in the High Ionic Conductivity of Choline Triflate Plastic Crystal and Its Acid-Containing Compositions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5532-5543	3.8	20
25	Characterization of Aluminum-Neutralized Sulfonated Styrenic Pentablock Copolymer Films. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1056-1068	3.9	46
24	Simultaneous microfabrication and tuning of the permselective properties in microporous polymers using X-ray lithography. <i>Small</i> , <b>2013</b> , 9, 2277-82	11	12
23	Modeling of the sorption and transport properties of water vapor in polyimide membranes. <i>Journal of Membrane Science</i> , <b>2012</b> , 409-410, 96-104	9.6	43
22	Preparation and gas separation properties of partially pyrolyzed membranes (PPMs) derived from copolyimides containing polyethylene oxide side chains. <i>Journal of Membrane Science</i> , <b>2012</b> , 409-410, 200-211	9.6	21
21	Discriminative separation of gases by a "molecular trapdoor" mechanism in chabazite zeolites. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19246-53	16.4	226
20	Tuning microcavities in thermally rearranged polymer membranes for CO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 4365-73	3.6	114
19	Microfabrication of mesoporous silica encapsulated enzymes using deep X-ray lithography. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16191		12
18	Ultra-thin hybrid polyhedral silsesquioxane-polyamide films with potentially unlimited 2D dimensions. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14835		49
17	Magnetic framework composites for polycyclic aromatic hydrocarbon sequestration. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11470		56
16	The thickness dependence of Matrimid films in water vapor permeation. <i>Chemical Engineering Journal</i> , <b>2012</b> , 209, 301-312	14.7	26
15	Using plasticizers to control the hydrocarbon selectivity of a poly(methyl methacrylate)-coated quartz crystal microbalance sensor. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8564-70	7.8	25
14	Patterning techniques for metal organic frameworks. <i>Advanced Materials</i> , <b>2012</b> , 24, 3153-68	24	102

13	Lithiated Porous Aromatic Frameworks with Exceptional Gas Storage Capacity. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 6743-6746	3.6	20
12	Lithiated porous aromatic frameworks with exceptional gas storage capacity. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6639-42	16.4	95
11	The impact of water and hydrocarbon concentration on the sensitivity of a polymer-based quartz crystal microbalance sensor for organic compounds. <i>Analytica Chimica Acta</i> , <b>2011</b> , 703, 70-9	6.6	13
10	Dynamic control of MOF-5 crystal positioning using a magnetic field. <i>Advanced Materials</i> , <b>2011</b> , 23, 3901-64	6.4	59
9	Complete Characterization of Hopeite Microparticles: An Ideal Nucleation Seed for Metal Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 5268-5274	3.5	19
8	Cavity size, sorption and transport characteristics of thermally rearranged (TR) polymers. <i>Polymer</i> , <b>2011</b> , 52, 2244-2254	3.9	91
7	Thermally Rearranged (TR) Polybenzoxazole: Effects of Diverse Imidization Routes on Physical Properties and Gas Transport Behaviors. <i>Macromolecules</i> , <b>2010</b> , 43, 7657-7667	5.5	199
6	High performance LiFePO <sub>4</sub> electrode materials: influence of colloidal particle morphology and porosity on lithium-ion battery power capability. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 813	35.4	64
5	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. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4675		42
4	Nafion <sup>®</sup> Carbon Nanocomposite Membranes Prepared Using Hydrothermal Carbonization for Proton-Exchange-Membrane Fuel Cells. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 4394-4399	15.6	90
3	Hierarchically Porous Monolithic LiFePO <sub>4</sub> /Carbon Composite Electrode Materials for High Power Lithium Ion Batteries. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5300-5306	9.6	173
2	Colloidal Crystal Templating to Produce Hierarchically Porous LiFePO <sub>4</sub> Electrode Materials for High Power Lithium Ion Batteries. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2895-2903	9.6	150
1	Porous solid inspired hyper-crosslinked polymer liquids with highly efficient regeneration for gas purification. <i>Science China Materials</i> , 1	7.1	1