

Ralph T Yang

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.

125
papers

12,391
citations

59
h-index

111
g-index

127
ext. papers

13,370
ext. citations

5.7
avg, IF

6.86
L-index

#	Paper	IF	Citations
125	CO2 capture (including direct air capture) and natural gas desulfurization of amine-grafted hierarchical bimodal silica. <i>Chemical Engineering Journal</i> , 2022 , 427, 131561	14.7	6
124	Separation of SO and NO with the Zeolite Membrane: Molecular Simulation Insights into the Advantageous NO Dimerization Effect.. <i>Langmuir</i> , 2022 , 38, 2751-2762	4	0
123	Tunable amine loading of amine grafted mesoporous silica grafted at room temperature: Applications for CO2 capture. <i>Chemical Engineering Science</i> , 2022 , 254, 117626	4.4	0
122	Condensation Separation of NO with Dimerization Reaction in the Presence of Noncondensable Gas: Critical Assessment and Model Development.. <i>ACS Omega</i> , 2022 , 7, 14735-14745	3.9	
121	SBA-15 Functionalized with Amines in the Presence of Water: Applications to CO2 Capture and Natural Gas Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6277-6286	3.9	2
120	Recovery of high-purity NO2 and SO2 products from iron-ore sintering flue gas by distillation: process design, optimization and analysis. <i>Separation and Purification Technology</i> , 2021 , 264, 118308	8.3	4
119	Morphology Effects of CeO2 Nanomaterials on the Catalytic Combustion of Toluene: A Combined Kinetics and Diffuse Reflectance Infrared Fourier Transform Spectroscopy Study. <i>ACS Catalysis</i> , 2021 , 11, 7876-7889	13.1	19
118	Effects of operating temperature on the performance of small scale rapid cycle pressure swing adsorption air separation process. <i>Adsorption</i> , 2021 , 27, 205-212	2.6	1
117	Understanding the promotional effect of 3d transition metals (Fe, Co, Cu) on Pd/TiO2 for H2-SCR. <i>Catalysis Science and Technology</i> , 2021 , 11, 886-894	5.5	1
116	Effect of intermittent purge on O2 production with rapid pressure swing adsorption technology. <i>Adsorption</i> , 2021 , 27, 181-189	2.6	3
115	NO removal with efficient recycling of NO from iron-ore sintering flue gas: A novel cyclic adsorption process. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124380	12.8	14
114	Influence of water on amine loading for ordered mesoporous silica. <i>Chemical Engineering Science</i> , 2021 , 241, 116717	4.4	3
113	Template Removal from SBA-15 by Ionic Liquid for Amine Grafting: Applications to CO2 Capture and Natural Gas Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8295-8304	8.3	17
112	Getting insight into the influence of coexisting airborne nanoparticles on gas adsorption performance over porous materials. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121928	12.8	5
111	Amine-Grafted Silica Gels for CO2 Capture Including Direct Air Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7072-7079	3.9	25
110	Synergism between palladium and nickel on Pd-Ni/TiO2 for H2-SCR: A transient DRIFTS study. <i>Journal of Catalysis</i> , 2020 , 381, 204-214	7.3	20
109	Insights into adsorption separation of N2/O2 mixture on FAU zeolites under plateau special conditions: A molecular simulation study. <i>Separation and Purification Technology</i> , 2020 , 251, 117405	8.3	8

108	Superior Silver Sorbents for Removing 2-Vinyl Thiophene from Styrene by π -Complexation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1769-1772	3.9	3
107	110th Anniversary: Recent Progress and Future Challenges in Selective Catalytic Reduction of NO by H ₂ in the Presence of O ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10140-10153	3.9	23
106	Thermodynamic analysis of molecular simulations of N ₂ and O ₂ adsorption on zeolites under plateau special conditions. <i>Applied Surface Science</i> , 2019 , 480, 868-875	6.7	17
105	Chemical Liquid Deposition Modified 4A Zeolite as a Size-Selective Adsorbent for Methane Upgrading, CO ₂ Capture and Air Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3301-3308	8.3	35
104	Mixed-cation LiCa-LSX zeolite with minimum lithium for air separation. <i>AIChE Journal</i> , 2018 , 64, 406-415	3.6	18
103	N ₂ O Formation Pathways over Zeolite-Supported Cu and Fe Catalysts in NH ₃ -SCR. <i>Energy & Fuels</i> , 2018 , 32, 2170-2182	4.1	44
102	Chemical Liquid Deposition (CLD)-Modified Fe-ZSM-5 for Enhanced Activity and Resistance to C ₃ H ₆ Poisoning in Selective Catalytic Reduction with NH ₃ (NH ₃ -SCR). <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13586-13590	3.9	5
101	Adsorption thermodynamics and desorption properties of gaseous polycyclic aromatic hydrocarbons on mesoporous adsorbents. <i>Adsorption</i> , 2017 , 23, 361-371	2.6	18
100	NH ₃ -SCR of NO over one-pot Cu-SAPO-34 catalyst: Performance enhancement by doping Fe and MnCe and insight into N ₂ O formation. <i>Applied Catalysis A: General</i> , 2017 , 543, 247-256	5.1	39
99	Selective catalytic reduction of nitric oxide with ammonia over high-activity Fe/SSZ-13 and Fe/one-pot-synthesized Cu-SSZ-13 catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 7561-7568	5.5	26
98	Selective catalytic reduction of nitric oxide with hydrogen on supported Pd: Enhancement by hydrogen spillover. <i>Applied Catalysis A: General</i> , 2016 , 514, 35-42	5.1	42
97	Performance of mesoporous silicas (MCM-41 and SBA-15) and carbon (CMK-3) in the removal of gas-phase naphthalene: adsorption capacity, rate and regenerability. <i>RSC Advances</i> , 2016 , 6, 21193-21203	3.7	36
96	Low-pressure performance evaluation of CO ₂ , H ₂ O and CH ₄ on Li-LSX as a superior adsorbent for air prepurification. <i>Chemical Engineering Science</i> , 2016 , 147, 100-108	4.4	29
95	Desorption Kinetics of Naphthalene and Acenaphthene over Two Activated Carbons via Thermogravimetric Analysis. <i>Energy & Fuels</i> , 2015 , 29, 5303-5310	4.1	16
94	SCR of Nitric Oxide by Hydrogen over Pd and Ir Based Catalysts with Different Supports. <i>Catalysis Letters</i> , 2015 , 145, 1491-1499	2.8	6
93	New nanostructured sorbents for desulfurization of natural gas. <i>Frontiers of Chemical Science and Engineering</i> , 2014 , 8, 8-19	4.5	20
92	Glow discharge plasma-assisted template removal of SBA-15 at ambient temperature for high surface area, high silanol density, and enhanced CO ₂ adsorption capacity. <i>Langmuir</i> , 2014 , 30, 8124-30	4	26
91	Selective catalytic reduction of nitric oxide by hydrogen over Zn-ZSM-5 and Pd and Pd/Ru based catalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 162-171	21.8	24

90	Nanostructured adsorbents for hydrogen storage at ambient temperature: high-pressure measurements and factors influencing hydrogen spillover. <i>RSC Advances</i> , 2013 , 3, 23935	3.7	33
89	Investigation on Hydrogenation of Metal-Organic Frameworks HKUST-1, MIL-53, and ZIF-8 by Hydrogen Spillover. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7565-7576	3.8	106
88	Graphene and other carbon sorbents for selective adsorption of thiophene from liquid fuel. <i>AICHE Journal</i> , 2013 , 59, 29-32	3.6	63
87	Significantly Increased CO ₂ Adsorption Performance of Nanostructured Templated Carbon by Tuning Surface Area and Nitrogen Doping. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1099-1106	3.8	175
86	Effects of aromatics on desulfurization of liquid fuel by π -complexation and carbon adsorbents. <i>Chemical Engineering Science</i> , 2012 , 73, 208-217	4.4	96
85	CO ₂ capture from the atmosphere and simultaneous concentration using zeolites and amine-grafted SBA-15. <i>Environmental Science & Technology</i> , 2011 , 45, 10257-64	10.3	172
84	Low-temperature selective catalytic reduction of NO _x with NH ₃ over metal oxide and zeolite catalysts: A review. <i>Catalysis Today</i> , 2011 , 175, 147-156	5.3	699
83	Increasing Selective CO ₂ Adsorption on Amine-Grafted SBA-15 by Increasing Silanol Density. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21264-21272	3.8	172
82	Unique hydrogen adsorption properties of graphene. <i>AICHE Journal</i> , 2011 , 57, 2902-2908	3.6	51
81	Effects of Pt Particle Size on Hydrogen Storage on Pt-Doped Metal-Organic Framework IRMOF-8. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4793-4799	3.8	80
80	Enhanced Hydrogen Storage on Pt-Doped Carbon by Plasma Reduction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5956-5963	3.8	46
79	Hydrogen Storage Properties of Low-Silica Type X Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 3634-3641	3.9	33
78	Hydrogen Storage on Carbon-Based Adsorbents and Storage at Ambient Temperature by Hydrogen Spillover. <i>Catalysis Reviews - Science and Engineering</i> , 2010 , 52, 411-461	12.6	119
77	Enhanced Hydrogen Spillover on Carbon Surfaces Modified by Oxygen Plasma. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1601-1609	3.8	64
76	Hydrogen storage properties of B- and N-doped microporous carbon. <i>AICHE Journal</i> , 2009 , 55, 1823-1833	3.6	53
75	Novel Y ₂ O ₃ Doped MnO _x Binary Metal Oxides for NO _x Storage at Low Temperature in Lean Burn Condition. <i>Catalysis Letters</i> , 2009 , 129, 104-110	2.8	4
74	Activity, stability and hydrocarbon deactivation of Fe/Beta catalyst for SCR of NO with ammonia. <i>Applied Catalysis A: General</i> , 2009 , 368, 121-126	5.1	82
73	Catalyzed hydrogen spillover for hydrogen storage. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4224-6	16.4	70

72	Effect of Surface Oxygen Groups in Carbons on Hydrogen Storage by Spillover. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2920-2926	3.9	78
71	Desulfurization of Jet Fuel JP-5 Light Fraction by MCM-41 and SBA-15 Supported Cuprous Oxide for Fuel Cell Applications. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 142-147	3.9	84
70	Reverse Spillover of Hydrogen on Carbon-Based Nanomaterials: Evidence of Recombination Using Isotopic Exchange. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13933-13939	3.8	24
69	Hydrogen Storage Properties of N-Doped Microporous Carbon. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21883-21888	3.8	51
68	Superior Sorbent for Natural Gas Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1238-1244	3.9	53
67	Reply to Comment on Kinetics and Mechanistic Model for Hydrogen Spillover on Bridged Metal-Organic Frameworks' <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3155-3156	3.8	8
66	Selective Catalytic Reduction of Nitric Oxide with Ammonia over ZSM-5 Based Catalysts for Diesel Engine Applications. <i>Catalysis Letters</i> , 2008 , 121, 111-117	2.8	35
65	Hydrogen storage in metal-organic and covalent-organic frameworks by spillover. <i>AIChE Journal</i> , 2008 , 54, 269-279	3.6	230
64	New sorbents for hydrogen storage by hydrogen spillover – a review. <i>Energy and Environmental Science</i> , 2008 , 1, 268	35.4	297
63	Hydrogen Storage Properties of Carbons Doped with Ruthenium, Platinum, and Nickel Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12486-12494	3.8	161
62	Kinetics and Mechanistic Model for Hydrogen Spillover on Bridged Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3405-3411	3.8	94
61	Hydrogen Storage on Platinum Nanoparticles Doped on Superactivated Carbon. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11086-11094	3.8	148
60	Selective catalytic reduction of nitric oxide with hydrogen over Pd-based catalysts. <i>Journal of Catalysis</i> , 2006 , 237, 381-392	7.3	73
59	Desulfurization of High-Sulfur Jet Fuel by π -Complexation with Copper and Palladium Halide Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7649-7655	3.9	87
58	Adsorption of Organic Vapors on Single-Walled Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5524-5530	3.9	48
57	Effects of Nitrogen Compounds and Polyaromatic Hydrocarbons on Desulfurization of Liquid Fuels by Adsorption via π -Complexation with Cu(I)/Y Zeolite. <i>Energy & Fuels</i> , 2006 , 20, 909-914	4.1	67
56	Desulfurization of transportation fuels by π -complexation sorbents: Cu(I)-, Ni(II)-, and Zn(II)-zeolites. <i>Applied Catalysis B: Environmental</i> , 2005 , 56, 111-126	21.8	313
55	Ultra-active Fe/ZSM-5 catalyst for selective catalytic reduction of nitric oxide with ammonia. <i>Applied Catalysis B: Environmental</i> , 2005 , 60, 13-22	21.8	110

54	Low-temperature SCR of NO with NH ₃ over noble metal promoted Fe-ZSM-5 catalysts. <i>Catalysis Letters</i> , 2005 , 100, 243-246	2.8	23
53	Selective Adsorption of Organosulfur Compounds from Transportation Fuels by π -Complexation. <i>Separation Science and Technology</i> , 2005 , 39, 1717-1732	2.5	44
52	New sorbents for desulfurization of diesel fuels via π -complexation. <i>AIChE Journal</i> , 2004 , 50, 791-801	3.6	177
51	Catalytic reduction of nitric oxide with hydrogen and carbon monoxide in the presence of excess oxygen by Pd supported on pillared clays. <i>Applied Catalysis A: General</i> , 2004 , 259, 261-267	5.1	39
50	Desulfurization of Commercial Jet Fuels by Adsorption via π -Complexation with Vapor Phase Ion Exchanged Cu(I)-Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 6142-6149	3.9	52
49	Desulfurization of Transportation Fuels by Adsorption. <i>Catalysis Reviews - Science and Engineering</i> , 2004 , 46, 111-150	12.6	195
48	Characterization and FTIR Studies of MnOx/TeO ₂ Catalyst for Low-Temperature Selective Catalytic Reduction of NO with NH ₃ . <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15738-15747	3.4	388
47	New Sorbents for Desulfurization of Diesel Fuels via π -Complexation: Layered Beds and Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 769-776	3.9	118
46	Desulfurization of Diesel Fuels via π -Complexation with Nickel(II)-Exchanged X- and Y-Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1081-1089	3.9	120
45	2003 ,		780
44	Low-Temperature SCR of NO with NH ₃ over USY-Supported Manganese Oxide-Based Catalysts. <i>Catalysis Letters</i> , 2003 , 87, 67-71	2.8	83
43	Performance and kinetics study for low-temperature SCR of NO with NH ₃ over MnOx/TeO ₂ catalyst. <i>Journal of Catalysis</i> , 2003 , 217, 434-441	7.3	485
42	Hydrogen storage in carbon nanotubes: Residual metal content and pretreatment temperature. <i>AIChE Journal</i> , 2003 , 49, 1556-1568	3.6	72
41	Desulfurization of Liquid Fuels by Adsorption via π -Complexation with Cu(I)- and Ag-Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 123-129	3.9	286
40	Improved Multisite Langmuir Model for Mixture Adsorption Using Multiregion Adsorption Theory. <i>Langmuir</i> , 2003 , 19, 2776-2781	4	23
39	Desulfurization of transportation fuels with zeolites under ambient conditions. <i>Science</i> , 2003 , 301, 79-81	33.3	772
38	Amine-Grafted MCM-48 and Silica Xerogel as Superior Sorbents for Acidic Gas Removal from Natural Gas. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2427-2433	3.9	586
37	Desulfurization of Commercial Liquid Fuels by Selective Adsorption via π -Complexation with Cu(I)-Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3103-3110	3.9	195

36	NEW SORBENTS FOR DESULFURIZATION OF TRANSPORTATION FUELS 2003 ,		2
35	New adsorbents for purification: Selective removal of aromatics. <i>AICHE Journal</i> , 2002 , 48, 1457-1468	3.6	23
34	Adsorption of Nitrogen, Oxygen and Argon on Na-CeX Zeolites. <i>Adsorption</i> , 2002 , 8, 271-278	2.6	43
33	Kinetic separation of methane/carbon dioxide by molecular sieve carbons. <i>Separation Science and Technology</i> , 2002 , 37, 2505-2528	2.5	41
32	Role of Oxygen in the Nitrous Oxide/Carbon Reaction. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2592-2596	3.4	6
31	New Sorbents for Desulfurization by π -Complexation: Thiophene/Benzene Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2487-2496	3.9	203
30	Ultrasound Enhanced Adsorption and Desorption of Phenol on Activated Carbon and Polymeric Resin. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 4912-4918	3.9	119
29	New Sorbents for Desulfurization of Liquid Fuels by π -Complexation. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 6236-6239	3.9	153
28	Carbon Nanotubes as a Superior Sorbent for Nitrogen Oxides. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 4288-4291	3.9	126
27	Removal of NO by Reversible Adsorption on Fe/Mn Based Transition Metal Oxides. <i>Langmuir</i> , 2001 , 17, 4997-5003	4	90
26	Corrected Horvath-Kawazoe equations for pore-size distribution. <i>AICHE Journal</i> , 2000 , 46, 734-750	3.6	108
25	Structural effects on adsorption of atmospheric gases in mixed Li,AgX-zeolite. <i>AICHE Journal</i> , 2000 , 46, 2305-2317	3.6	47
24	New sorbents for olefin/paraffin separations by adsorption via π -complexation: synthesis and effects of substrates. <i>Chemical Engineering Science</i> , 2000 , 55, 2607-2616	4.4	129
23	Kinetic Separation of Oxygen and Argon Using Molecular Sieve Carbon. <i>Adsorption</i> , 2000 , 6, 15-22	2.6	29
22	Silver Ion-Exchanged Zeolites Y, X, and Low-Silica X: Observations of Thermally Induced Cation/Cluster Migration and the Resulting Effects on the Equilibrium Adsorption of Nitrogen. <i>Chemistry of Materials</i> , 2000 , 12, 3020-3031	9.6	74
21	Superior ion-exchanged ZSM-5 catalysts for selective catalytic oxidation of ammonia to nitrogen. <i>Chemical Communications</i> , 2000 , 1651-1652	5.8	101
20	Aromatics/Aliphatics Separation by Adsorption: New Sorbents for Selective Aromatics Adsorption by π -Complexation. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3856-3867	3.9	60
19	Synthesis and Characterization of the Sorption Properties of Oxygen-Binding Cobalt Complexes Immobilized in Nanoporous Materials. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 2252-2259	3.9	21

18	Influence of Residual Water on the Adsorption of Atmospheric Gases in LiX Zeolite: Experiment and Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1775-1780	3.9	52
17	Concentration profile for linear driving force model for diffusion in a particle. <i>AICHE Journal</i> , 1999 , 45, 196-200	3.6	36
16	Mixed cation zeolites: LiXAgY-X as a superior adsorbent for air separation. <i>AICHE Journal</i> , 1999 , 45, 724-734	3.8	60
15	Unified network model for adsorption-desorption in systems with hysteresis. <i>AICHE Journal</i> , 1999 , 45, 735-750	3.6	20
14	Superior Fe-ZSM-5 Catalyst for Selective Catalytic Reduction of Nitric Oxide by Ammonia. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5595-5596	16.4	258
13	Anion and Cation Effects on Olefin Adsorption on Silver and Copper Halides: Ab Initio Effective Core Potential Study of π -Complexation. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3206-3212	3.4	57
12	Comparison of π -Complexations of Ethylene and Carbon Monoxide with Cu ⁺ and Ag ⁺ . <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2720-2725	3.9	63
11	Anion Effects on the Adsorption of Acetylene by Nickel Halides. <i>Langmuir</i> , 1999 , 15, 7647-7652	4	15
10	New Sorbents for Olefin/Paraffin Separations and Olefin Purification for C ₄ Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3614-3621	3.9	87
9	Adsorbents for Dioxins: A New Technique for Sorbent Screening for Low-Volatile Organics. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2726-2731	3.9	67
8	Pt/MCM-41 catalyst for selective catalytic reduction of nitric oxide with hydrocarbons in the presence of excess oxygen. <i>Catalysis Letters</i> , 1998 , 52, 91-96	2.8	70
7	Olefin/paraffin separations by adsorption: π -Complexation vs. kinetic separation. <i>AICHE Journal</i> , 1998 , 44, 799-809	3.6	185
6	Desorption by ultrasound: Phenol on activated carbon and polymeric resin. <i>AICHE Journal</i> , 1998 , 44, 1519-1528	3.108	108
5	Ab Initio Molecular Orbital Study of the Unified Mechanism and Pathways for Gas-Carbon Reactions. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 6348-6356	2.8	108
4	Limits for Air Separation by Adsorption with LiX Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 5358-5365	3.9	114
3	Theoretical basis for the Dubinin-Radushkevitch (D-R) adsorption isotherm equation. <i>Adsorption</i> , 1997 , 3, 189-195	2.6	296
2	Gas Separation by Adsorption Processes. <i>Series on Chemical Engineering</i> , 1997 ,	1.5	343
1	π -Complexation Sorbents and Applications		4

