JÃ¶rg KÃ¤rger

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4333376/publications.pdf

Version: 2024-02-01

		10389	24258
468	19,511	72	110
papers	citations	h-index	g-index

510	510	510	8379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Leipzig, Berlin and Hannover: Three Stations of a Beneficial Cooperation. Chemie-Ingenieur-Technik, 2022, 94, 15-22.	0.8	1
2	Application of microimaging to diffusion studies in nanoporous materials. Adsorption, 2021, 27, 819-840.	3.0	6
3	Diffusion in nanopores: inspecting the grounds. Adsorption, 2021, 27, 267-281.	3.0	15
4	Sorption kinetics: measurement of surface resistance. Adsorption, 2021, 27, 787-799.	3.0	18
5	Surface barriers and symmetry of adsorption and desorption processes. Adsorption, 2021, 27, 777-785.	3.0	25
6	Diffusion Analysis in Pore Hierarchies by the Twoâ€Region Model. Advanced Materials Interfaces, 2021, 8, 2000749.	3.7	14
7	Pulsed field gradient NMR diffusion measurement in nanoporous materials. Adsorption, 2021, 27, 453-484.	3.0	40
8	Diffusion and reaction in pore hierarchies by the two-region model. Adsorption, 2021, 27, 761-776.	3.0	3
9	Searching for the fundamentals of rehydroxylation dating of archaeological ceramics via NMR and IR microscopy. Journal of the American Ceramic Society, 2021, 104, 5328-5340.	3.8	2
10	Martin BÃ¼low: response. Adsorption, 2021, 27, 993-993.	3.0	0
11	Diffusion in Nanoporous Solids in the Focus of IUPAC â€“ A Tribute to Jens Weitkamp. Chemie-Ingenieur-Technik, 2021, 93, 893-901.	0.8	5
12	In Memoriam Prof. Dr.â€Ing. Jens Weitkamp. Chemie-Ingenieur-Technik, 2021, 93, 863-863.	0.8	0
13	Diffusion Research with Nanoporous Material. Chemistry International, 2021, 43, 25-29.	0.3	6
14	NMR Studies of the Dehydroxylation and Rehydroxylation (RHX) of Clays with Respect to the RHX Dating of Ceramic Materials. Journal of Physical Chemistry C, 2021, 125, 26274-26283.	3.1	2
15	Molecular transport in nanoporous materials. , 2020, , 169-215.		0
16	Equilibrium isotherms and transport diffusivities for CO2 and CO2/N2 mixtures in silicalite measured by Infra-Red Micro-imaging. Microporous and Mesoporous Materials, 2020, 300, 110172.	4.4	6
17	Diffusion in nanopores: correlating experimental findings with â€œfirst-principlesâ€•predictions. Adsorption, 2020, 26, 1001-1013.	3.0	9
18	From computer design to gas separation. Nature Materials, 2020, 19, 374-375.	27.5	16

#	Article	IF	Citations
19	NMR Studies of Molecular Diffusion. , 2020, , 69-137.		1
20	Investigating adsorption- and diffusion selectivity of CO2 and CH4 from air on zeolitic imidazolate Framework-78 using molecular simulations. Microporous and Mesoporous Materials, 2019, 274, 266-276.	4.4	25
21	Diffusion Path Reversibility Confirms Symmetry of Surface Barriers. Journal of Physical Chemistry C, 2019, 123, 19596-19601.	3.1	14
22	Diffusion in Nanoporous Materials: from Paradigm Shift by Zhdanov Zeolites Till Recent Insight. Petroleum Chemistry, 2019, 59, 275-296.	1.4	5
23	NMR Study of the Host Structure and Guest Dynamics Investigated with Alkane/Alkene Mixtures in Metal Organic Frameworks ZIF-8. Journal of Physical Chemistry C, 2019, 123, 1904-1912.	3.1	22
24	NMR diffusometry with guest molecules in nanoporous materials. Magnetic Resonance Imaging, 2019, 56, 3-13.	1.8	11
25	Revealing the Transient Concentration of CO₂ in a Mixedâ€Matrix Membrane by IR Microimaging and Molecular Modeling. Angewandte Chemie - International Edition, 2018, 57, 5156-5160.	13.8	35
26	Molecular Dynamics Study of Diffusion and Surface Permeation of Benzene in Silicalite. Journal of Physical Chemistry C, 2018, 122, 7217-7225.	3.1	32
27	Einblicke in die Verteilung von CO₂â€MolekÃ¼len und deren zeitliche Entwicklung durch Mikroâ€Bildgebung mittels IRâ€Spektroskopie und molekulardynamische Modellierung. Angewandte Chemie, 2018, 130, 5250-5255.	2.0	0
28	Tracing compartment exchange by NMR diffusometry: Water in lithium-exchanged low-silica X zeolites. Journal of Magnetic Resonance, 2018, 289, 1-11.	2.1	12
29	Diffusive Spreading of Molecules in Nanoporous Materials. , 2018, , 171-202.		4
30	Alkane/alkene mixture diffusion in silicalite-1 studied by MAS PFG NMR. Microporous and Mesoporous Materials, 2018, 257, 128-134.	4.4	23
31	Oneâ€Shot Measurement of Effectiveness Factors of Chemical Conversion in Porous Catalysts. ChemCatChem, 2018, 10, 5602-5609.	3.7	17
32	Transport-Optimized Nanoporous Materials for Mass Separation and Conversion as Designed by Microscopic Diffusion Measurement. , 2018, 19, 96-124.		0
33	One-Shot Measurement of Effectiveness Factors of Chemical Conversion in Porous Catalysts. ChemCatChem, 2018, 10, 5553-5553.	3.7	2
34	Ethane diffusion in mixed linker zeolitic imidazolate framework-7-8 by pulsed field gradient NMR in combination with single crystal IR microscopy. Physical Chemistry Chemical Physics, 2018, 20, 23967-23975.	2.8	31
35	Diffusion in Nanoporous Materials: Novel Insights by Combining MAS and PFG NMR. Processes, 2018, 6, 147.	2.8	27
36	Anomaly in the Chain Length Dependence of n-Alkane Diffusion in ZIF-4 Metal-Organic Frameworks. Molecules, 2018, 23, 668.	3.8	15

#	Article	IF	Citations
37	Spreading Fundamentals. , 2018, , 11-25.		1
38	What the Book Is Dealing With. , 2018, , 3-9.		1
39	Mesopore Diffusion Within Porous Silicon. , 2018, , 331-340.		1
40	Scale-dependent diffusion anisotropy in nanoporous silicon. Scientific Reports, 2017, 7, 40207.	3.3	43
41	Singleâ€Molecule and Ensemble Diffusivities in Individual Nanopores with Spatially Dependent Mobility. ChemPhysChem, 2017, 18, 2094-2102.	2.1	10
42	Assessing Guestâ€Molecule Diffusion in Heterogeneous Powder Samples of Metalâ€“Organic Frameworks through Pulsedâ€Fieldâ€Gradient (PFG) NMR Spectroscopy. Chemistry - A European Journal, 2017, 23, 13000-13005.	3.3	13
43	Structure-correlated diffusion anisotropy in nanoporous channel networks by Monte Carlo simulations and percolation theory. European Physical Journal B, 2017, 90, 1.	1.5	1
44	IR Microimaging of Directionâ€Dependent Uptake in MFIâ€Type Crystals. Chemie-Ingenieur-Technik, 2017, 89, 1686-1693.	0.8	5
45	MessgrÃ¶ÃŸen fÃ¼r die Diffusion. Nachrichten Aus Der Chemie, 2016, 64, 620-624.	0.0	2
46	Large Ferrierite Crystals as Models for Catalyst Deactivation during Skeletal Isomerisation of Oleic Acid: Evidence for Pore Mouth Catalysis. Chemistry - A European Journal, 2016, 22, 199-210.	3.3	27
47	Diffusion in complementary pore spaces. Adsorption, 2016, 22, 879-890.	3.0	3
48	Transport properties of hierarchical microâ€“mesoporous materials. Chemical Society Reviews, 2016, 45, 3439-3467.	38.1	202
49	Diffusion in nanoporous materials: fundamental principles, insights and challenges. New Journal of Chemistry, 2016, 40, 4027-4048.	2.8	153
50	The predictive power of classical transition state theory revealed in diffusion studies with MOF ZIF-8. Microporous and Mesoporous Materials, 2016, 225, 128-132.	4.4	46
51	The role of crystal diversity in understanding mass transfer in nanoporous materials. Nature Materials, 2016, 15, 401-406.	27.5	142
52	Chapter 12. Confined Fluids: NMR Perspectives on Confinements and on Fluid Dynamics. New Developments in NMR, 2016, , 390-434.	0.1	2
53	Mesopore Diffusion Within Porous Silicon. , 2016, , 1-10.		0
54	Microimaging of Transient Intracrystalline Concentration Profiles during Two-Component Uptake of Light Hydrocarbonâ€“Carbon Dioxide Mixtures by DDR-Type Zeolites. Industrial & Engineering Chemistry Research, 2015, 54, 8997-9004.	3.7	13

#	Article	IF	Citations
55	Mesoporeâ€Promoted Transport in Microporous Materials. Chemie-Ingenieur-Technik, 2015, 87, 1794-1809.	0.8	28
56	Transport in Nanoporous Materials Including MOFs: The Applicability of Fickâ€™s Laws. Angewandte Chemie - International Edition, 2015, 54, 14580-14583.	13.8	90
57	Microimaging of Transient Concentration Profiles of Reactant and Product Molecules during Catalytic Conversion in Nanoporous Materials. Angewandte Chemie - International Edition, 2015, 54, 5060-5064.	13.8	62
58	Micro-imaging of liquidâ€“vapor phase transition in nano-channels. Microporous and Mesoporous Materials, 2015, 214, 143-148.	4.4	17
59	Improving mass-transfer in controlled pore glasses as supports for the platinum-catalyzed aromatics hydrogenation. Catalysis Science and Technology, 2015, 5, 3137-3146.	4.1	15
60	Structural analysis of hierarchically organized zeolites. Nature Communications, 2015, 6, 8633.	12.8	206
61	Diffusion of propene in DDR crystals studied by interference microscopy. Chemical Engineering Science, 2015, 138, 110-117.	3.8	6
62	Uphill diffusion and overshooting in the adsorption of binary mixtures in nanoporous solids. Nature Communications, 2015, 6, 7697.	12.8	63
63	MD simulations of hydrogen diffusion in ZIF-11 with a force field fitted to experimental adsorption data. Microporous and Mesoporous Materials, 2015, 203, 132-138.	4.4	15
64	Transport Phenomena in Nanoporous Materials. ChemPhysChem, 2015, 16, 24-51.	2.1	105
65	Probing Mass Transfer in Mesoporous Faujasiteâ€Type Zeolite Nanosheet Assemblies. ChemPhysChem, 2014, 15, 1681-1686.	2.1	28
66	Microimaging of transient guest profiles to monitor mass transfer in nanoporous materials. Nature Materials, 2014, 13, 333-343.	27.5	187
67	In-depth study of surface resistances in nanoporous materials by microscopic diffusion measurement. Microporous and Mesoporous Materials, 2014, 189, 126-135.	4.4	44
68	Mesopore Diffusion Within Porous Silicon. , 2014, , 1-10.		1
69	Understanding Adsorption and Transport of Light Gases in Hierarchical Materials Using Molecular Simulation and Effective Medium Theory. Journal of Physical Chemistry C, 2014, 118, 14355-14370.	3.1	29
70	Uncommon Synergy between Adsorption and Diffusion of Hexane Isomer Mixtures in MFI Zeolite Induced by Configurational Entropy Effects. Journal of Physical Chemistry C, 2014, 118, 2660-2665.	3.1	41
71	Diffusion properties of liquid crystal-based microemulsions. Colloid and Polymer Science, 2014, 292, 1961-1969.	2.1	0
72	Hellmut G. Karge (1931â€“2013). Microporous and Mesoporous Materials, 2014, 184, 70-71.	4.4	1

#	Article	IF	Citations
73	Transport enhancement in binderless zeolite X- and A-type molecular sieves revealed by PFG NMR diffusometry. Microporous and Mesoporous Materials, 2014, 188, 126-132.	4.4	27
74	Waterâ€Mediated Proton Conduction in a Robust Triazolyl Phosphonate Metalâ€“Organic Framework with Hydrophilic Nanochannels. Chemistry - A European Journal, 2014, 20, 8862-8866.	3.3	35
75	Mesopore Diffusion Within Porous Silicon. , 2014, , 221-230.		1
76	Diffusion Study by IR Micro-Imaging of Molecular Uptake and Release on Mesoporous Zeolites of Structure Type CHA and LTA. Materials, 2013, 6, 2662-2688.	2.9	30
77	Diffusion in microporous materials with embedded mesoporosities. Microporous and Mesoporous Materials, 2013, 178, 84-89.	4.4	19
78	A diffusion study of small hydrocarbons in DDR zeolites by micro-imaging. Microporous and Mesoporous Materials, 2013, 180, 219-228.	4.4	22
79	Ion and water mobility in hydrated Li-LSX zeolite studied by 1H, 6Li and 7Li NMR spectroscopy and diffusometry. Microporous and Mesoporous Materials, 2013, 172, 174-181.	4.4	26
80	Diffusion of pentane isomers in faujasite-type zeolites : NMR and molecular dynamics study. Microporous and Mesoporous Materials, 2013, 171, 58-64.	4.4	13
81	Mass transfer in mesoporous materials: the benefit of microscopic diffusion measurement. Chemical Society Reviews, 2013, 42, 4172.	38.1	221
82	Tracing Water and Cation Diffusion in Hydrated Zeolites of Type Li-LSX by Pulsed Field Gradient NMR. Journal of Physical Chemistry C, 2013, 117, 24866-24872.	3.1	26
83	â€œPore-Likeâ€•Effects of Super-Molecular Self-Assembly on Molecular Diffusion of Poly(Ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	7
84	The Beauty of the Different Views on Diffusion. Defect and Diffusion Forum, 2012, 326-328, 1-11.	0.4	2
85	Micro-imaging of transient guest profiles in nanoporous host systems of cylindrical symmetry. Journal of Chemical Physics, 2012, 137, 164704.	3.0	12
86	Exploring the hierarchy of transport phenomena in hierarchical pore systems by NMR diffusion measurement. Microporous and Mesoporous Materials, 2012, 164, 273-279.	4.4	61
87	Probing mesopore connectivity in hierarchical nanoporous materials. Carbon, 2012, 50, 4804-4808.	10.3	18
88	Tracing Molecular Propagation in Dextran Solutions by Pulsed Field Gradient NMR. Journal of Physical Chemistry Letters, 2012, 3, 1854-1857.	4.6	11
89	Monitoring Molecular Mass Transfer in Cation-Free Nanoporous Host Crystals of Type AlPO-LTA. Journal of the American Chemical Society, 2012, 134, 7725-7732.	13.7	45
90	Enhanced charge transport in nano-confined ionic liquids. Soft Matter, 2012, 8, 289-293.	2.7	119

#	Article	IF	Citations
91	Self-Diffusion of Chain Molecules in the Metalâ€“Organic Framework IRMOF-1: Simulation and Experiment. Journal of Physical Chemistry Letters, 2012, 3, 930-933.	4.6	59
92	Exploring Mass Transfer in Mesoporous Zeolites by NMR Diffusometry. Materials, 2012, 5, 699-720.	2.9	18
93	Micro-Imaging by Interference Microscopy: A Case Study of Orientation-Dependent Guest Diffusion in MFI-Type Zeolite Host Crystals. Materials, 2012, 5, 721-740.	2.9	20
94	RÃ¼cktitelbild: Single-Particle and Ensemble Diffusivities-Test of Ergodicity (Angew. Chem. 5/2012). Angewandte Chemie, 2012, 124, 1308-1308.	2.0	1
95	Intracrystalline Diffusion in Mesoporous Zeolites. ChemPhysChem, 2012, 13, 1495-1499.	2.1	41
96	Singleâ€Particle and Ensemble Diffusivitiesâ€”Test of Ergodicity. Angewandte Chemie - International Edition, 2012, 51, 1152-1155.	13.8	43
97	Back Cover: Singleâ€Particle and Ensemble Diffusivitiesâ€”Test of Ergodicity (Angew. Chem. Int. Ed. 5/2012). Angewandte Chemie - International Edition, 2012, 51, 1282-1282.	13.8	0
98	Rotational and translational diffusion in glass-forming N,N,-diethyl-3-methylbenzamide (DEET). Soft Matter, 2011, 7, 10565.	2.7	10
99	Tracing Pore-Space Heterogeneities in X-Type Zeolites by Diffusion Studies. Langmuir, 2011, 27, 416-419.	3.5	6
100	How to compare diffusion processes assessed by single-particle tracking and pulsed field gradient nuclear magnetic resonance. Journal of Chemical Physics, 2011, 135, 144118.	3.0	23
101	Guest Diffusion in Interpenetrating Networks of Micro- and Mesopores. Journal of the American Chemical Society, 2011, 133, 2437-2443.	13.7	30
102	Paramagnetic Relaxation Enhancement (PRE) as a Tool for Probing Diffusion in Environmentally Relevant Porous Media. Environmental Science & Technology, 2011, 45, 8866-8872.	10.0	8
103	How Hydrogen Bonds Influence the Mobility of Imidazolium-Based Ionic Liquids. A Combined Theoretical and Experimental Study of 1-n-Butyl-3-methylimidazolium Bromide. Journal of Physical Chemistry B, 2011, 115, 15280-15288.	2.6	118
104	Influence of the Methaneâ€“Zeolite a Interaction Potential on the Concentration Dependence of Self-Diffusivity. Adsorption Science and Technology, 2011, 29, 553-567.	3.2	0
105	Studying Diffusion and Mass Transfer at the Microscale. , 2011, , 53-94.		0
106	Water dynamics in chabazite. Microporous and Mesoporous Materials, 2011, 146, 106-118.	4.4	10
107	Surface permeability on zeolite NaCaA enhanced by layer deposition. Microporous and Mesoporous Materials, 2011, 146, 151-157.	4.4	5
108	Diffusion in ionic liquids: the interplay between molecular structure and dynamics. Soft Matter, 2011, 7, 1678.	2.7	104

#	Article	IF	Citations
109	The Nature of Surface Barriers on Nanoporous Solids Explored by Microimaging of Transient Guest Distributions. Journal of the American Chemical Society, 2011, 133, 2804-2807.	13.7	166
110	Diffusion of cyclohexane in native and surface-modified mesoporous glasses. Adsorption, 2011, 17, 93-99.	3.0	5
111	Nanoporous Glass as a Model System for a Consistency Check of the Different Techniques of Diffusion Measurement. ChemPhysChem, 2011, 12, 1130-1134.	2.1	41
112	The Impact of Mesopores on Mass Transfer in Nanoporous Materials: Evidence of Diffusion Measurement by NMR. Chemie-Ingenieur-Technik, 2011, 83, 166-176.	0.8	38
113	Guest Diffusion in Binderless Highâ€Performance NaX Molecular Sieves. Chemie-Ingenieur-Technik, 2011, 83, 2251-2259.	0.8	4
114	Inâ€Depth Study of Mass Transfer in Nanoporous Materials by Microâ€Imaging. Chemie-Ingenieur-Technik, 2011, 83, 2211-2218.	0.8	10
115	The evidence of NMR diffusometry on pore space heterogeneity in activated carbon. Microporous and Mesoporous Materials, 2011, 141, 184-191.	4.4	11
116	Dynamics of water diffusion in mesoporous zeolites. Microporous and Mesoporous Materials, 2011, 142, 236-244.	4.4	62
117	Correlating Surface Permeability with Intracrystalline Diffusivity in Nanoporous Solids. Physical Review Letters, 2011, 106, 074501.	7.8	80
118	Unprecedented Wealth of Information on Guest Dynamics in Nanoporous Materials from Transient Concentration Profiles. Defect and Diffusion Forum, 2011, 309-310, 177-194.	0.4	0
119	Micro-imaging of transient guest profiles in nanochannels. Journal of Chemical Physics, 2011, 135, 184201.	3.0	14
120	Investigating the reasons for the significant influence of lattice flexibility on self-diffusivity of ethane in Zn(tbip). Microporous and Mesoporous Materials, 2010, 130, 92-96.	4.4	39
121	Sorption kinetics for surface resistance controlled systems. Microporous and Mesoporous Materials, 2010, 132, 94-102.	4.4	18
122	Imaging of transient guest profiles in nanoporous host materials: aÂnew experimental technique to study intra-crystalline diffusion. Adsorption, 2010, 16, 515-523.	3.0	11
123	A new view of diffusion in nanoporous materials. Chemie-Ingenieur-Technik, 2010, 82, 779-804.	0.8	57
124	Exploring the nature of surface barriers on MOF Zn(tbip) by applying IR microscopy in high temporal and spatial resolution. Microporous and Mesoporous Materials, 2010, 129, 340-344.	4.4	43
125	Entropy-Driven Enhanced Self-Diffusion in Confined Reentrant Supernematics. Physical Review Letters, 2010, 105, 227802.	7.8	18
126	Comment on â€œComputer Simulation of Static and Dynamic Properties During Transient Sorption of Fluids in Mesoporous Materialsâ€• Journal of Physical Chemistry C, 2010, 114, 9187-9188.	3.1	0

#	Article	IF	Citations
127	Assessing Molecular Transport Properties of Nanoporous Materials by Interference Microscopy: Remarkable Effects of Composition and Microstructure on Diffusion in the Silicoaluminophosphate Zeotype STA-7. Journal of the American Chemical Society, 2010, 132, 11665-11670.	13.7	36
128	Self-Assembly and Diffusion of Block Copolymer Templates in SBA-15 Nanochannels. Journal of Physical Chemistry B, 2010, 114, 4223-4229.	2.6	21
129	Comment on â€œSingle-File Diffusion of Confined Water Inside SWNTs: An NMR Studyâ€• ACS Nano, 2010, 4, 3537-3537.	14.6	9
130	In situ study on molecular diffusion phenomena in nanoporous catalytic solids. Chemical Society Reviews, 2010, 39, 4864.	38.1	148
131	Mass Transfer in a Nanoscale Material Enhanced by an Opposing Flux. Physical Review Letters, 2010, 104, 085902.	7.8	111
132	Charge transport and diffusion of ionic liquids in nanoporous silica membranes. Physical Chemistry Chemical Physics, 2010, 12, 13798.	2.8	109
133	Assessing Guest Diffusivities in Porous Hosts from Transient Concentration Profiles. Physical Review Letters, 2009, 102, 065901.	7.8	76
134	Understanding adsorption and desorption processes in mesoporous materials with independent disordered channels. Physical Review E, 2009, 80, 031607.	2.1	67
135	Benefit of Microscopic Diffusion Measurement for the Characterization of Nanoporous Materials. Chemical Engineering and Technology, 2009, 32, 1494-1511.	1.5	28
136	Intracrystalline Transport Resistances in Nanoporous Zeolite X. ChemPhysChem, 2009, 10, 2429-2433.	2.1	85
137	Ensemble Measurement of Diffusion: Novel Beauty and Evidence. ChemPhysChem, 2009, 10, 2623-2627.	2.1	56
138	Inside Cover: Ensemble Measurement of Diffusion: Novel Beauty and Evidence (ChemPhysChem 15/2009). ChemPhysChem, 2009, 10, 2550-2550.	2.1	0
139	Assessing Surface Permeabilities from Transient Guest Profiles in Nanoporous Host Materials. Angewandte Chemie - International Edition, 2009, 48, 3525-3528.	13.8	82
140	Comment on the paper â€œDiffusion and adsorption selectivities of hydrocarbons over FCC catalystsâ€•by A.M. Ã•vila, C.M. Bidabehere and U. Sedran [Chem. Eng. J. 132 (2007) 67â€“75]. Chemical Engineering Journal, 2009, 145, 522-524.	12.7	8
141	Molecular dynamics study of sorbate diffusion in a simple porous membrane containing microporous nanocrystals and mesopores. Chemical Physics Letters, 2009, 479, 95-99.	2.6	6
142	Adsorption and diffusion of alkanes in CuBTC crystals investigated using infra-red microscopy and molecular simulations. Microporous and Mesoporous Materials, 2009, 117, 22-32.	4.4	135
143	Diffusion of aromatic guest molecules in zeolite NaX studied by pulsed field gradient NMR. Microporous and Mesoporous Materials, 2009, 120, 98-103.	4.4	13
144	Study of the diffusion of liquids and their binary mixtures in mesoporous aluminosilicates under freezing conditions. Microporous and Mesoporous Materials, 2009, 120, 104-108.	4.4	3

#	Article	IF	Citations
145	Characterization of carbon materials with the help of NMR methods. Microporous and Mesoporous Materials, 2009, 120, 91-97.	4.4	19
146	Diffusion studies in confined nematic liquid crystals by MAS PFG NMR. Journal of Magnetic Resonance, 2009, 196, 110-114.	2.1	27
147	Effects of Self-Assembly on Diffusion Mechanisms of Triblock Copolymers in Aqueous Solution. Physical Review Letters, 2009, 102, 037801.	7.8	26
148	Direct assessment of molecular transport in mordenite: dominance of surface resistances. Chemical Communications, 2009, , 6424.	4.1	45
149	New Option for Characterizing the Mobility of Organic Compounds in Humic Acids. Environmental Science & Technology, 2009, 43, 8264-8269.	10.0	9
150	Correlating phase behaviour and diffusion in mesopores: perspectives revealed by pulsed field gradient NMR. Physical Chemistry Chemical Physics, 2009, 11, 2833.	2.8	83
151	Carboxylates and sulfates of polysaccharides for controlled internal water release during cement hydration. Cement and Concrete Composites, 2009, 31, 244-249.	10.7	20
152	Exploring Crystal Morphology of Nanoporous Hosts from Timeâ€Ðependent Guest Profiles. Angewandte Chemie - International Edition, 2008, 47, 3954-3957.	13.8	59
153	Inflection in the loading dependence of the Maxwellâ€“Stefan diffusivity of iso-butane in MFI zeolite. Chemical Physics Letters, 2008, 459, 141-145.	2.6	44
154	1H NMR signal broadening in spectra of alkane molecules adsorbed on MFI-type zeolites. Solid State Nuclear Magnetic Resonance, 2008, 33, 65-71.	2.3	12
155	Tracing pore connectivity and architecture in nanostructured silica SBA-15. Microporous and Mesoporous Materials, 2008, 110, 37-40.	4.4	36
156	Formation of surface barriers on silicalite-1 crystal fragments by residual water vapour as probed with isobutane by interference microscopy. Microporous and Mesoporous Materials, 2008, 110, 72-76.	4.4	46
157	Comment on â€œPFG NMR self-diffusion of small hydrocarbons in high silica DDR, CHA and LTA structuresâ€•[Micropor. Mesopor. Mater. 109 (2008) 327]. Microporous and Mesoporous Materials, 2008, 116, 715-717.	4.4	17
158	Normal and anomalous diffusion of non-interacting particles in linear nanopores. European Physical Journal: Special Topics, 2008, 161, 109-120.	2.6	10
159	NMR relaxometry during internal curing of Portland cements by lightweight aggregates. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1647-1655.	3.1	37
160	Charge transport and glassy dynamics in imidazole-based liquids. Journal of Chemical Physics, 2008, 129, 234511.	3.0	59
161	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. Journal of Chemical Physics, 2008, 128, 214509.	3.0	115
162	Probing Memory Effects in Confined Fluids via Diffusion Measurements. Langmuir, 2008, 24, 6429-6432.	3.5	56

#	Article	IF	Citations
163	Understanding capillary condensation and hysteresis in porous silicon: Network effects within independent pores. Physical Review E, 2008, 78, 060601.	2.1	80
164	Revealing complex formation in acetoneâ€“n-alkane mixtures by MAS PFG NMR diffusion measurement in nanoporous hosts. Physical Chemistry Chemical Physics, 2008, 10, 4165.	2.8	19
165	NMR Diffusometry with Beds of Nanoporous Host Particles: An Assessment of Mass Transfer in Compartmented Two-Phase Systems. Langmuir, 2008, 24, 10474-10479.	3.5	10
166	Freezing of fluids in disordered mesopores. Journal of Chemical Physics, 2008, 129, 154702.	3.0	30
167	Assessing one-dimensional diffusion in nanoporous materials from transient concentration profiles. New Journal of Physics, 2008, 10, 023035.	2.9	34
168	Single-File Diffusion in Zeolites. , 2008, , 329-366.		20
169	Application of IR Spectroscopy, IR Microscopy, and Optical Interference Microscopy to Diffusion in Zeolites. , 2008, , 135-206.		20
170	Diffusion Measurements by NMR Techniques. , 2008, , 85-133.		26
171	Determining the transport diffusivity from intra-crystalline concentration profiles. Studies in Surface Science and Catalysis, 2008, 174, 607-610.	1.5	0
172	Diffusion of guest molecules in MCM-41 agglomerates. Journal of Chemical Physics, 2007, 126, 054705.	3.0	13
173	Mesoscopic simulations of the diffusivity of ethane in beds of NaX zeolite crystals: Comparison with pulsed field gradient NMR measurements. Journal of Chemical Physics, 2007, 126, 094702.	3.0	28
174	Looking into the crystallites: diffusion studies by interference microscopy. Studies in Surface Science and Catalysis, 2007, , 739-747.	1.5	4
175	Pore opening effects and transport diffusion in the Knudsen regime in comparison to self- (or tracer-) diffusion. Europhysics Letters, 2007, 78, 20001.	2.0	12
176	Freezing and melting transitions of liquids in mesopores with ink-bottle geometry. New Journal of Physics, 2007, 9, 272-272.	2.9	51
177	Temperature effects on phase equilibrium and diffusion in mesopores. Physical Review E, 2007, 75, 041202.	2.1	35
178	Diffusion of n-alkanes in zeolites: the benefit of observation over different length scales. Studies in Surface Science and Catalysis, 2007, 170, 981-987.	1.5	3
179	Intracrystalline Diffusivities and Surface Permeabilities Deduced from Transient Concentration Profiles:Â Methanol in MOF Manganese Formate. Journal of the American Chemical Society, 2007, 129, 8041-8047.	13.7	71
180	Direct Assessment of Transport Properties of Supercritical Fluids Confined to Nanopores. Journal of the American Chemical Society, 2007, 129, 10344-10345.	13.7	38

#	Article	IF	Citations
181	Assessing Guest Diffusion in Nanoporous Materials by Boltzmann's Integration Method. Chemistry of Materials, 2007, 19, 3917-3923.	6.7	11
182	Structure and Self-Diffusion of Water Molecules in Chabazite:â€‰ A Molecular Dynamics Study. Journal of Physical Chemistry C, 2007, 111, 14707-14712.	3.1	15
183	Effect of Surface Modification on Uptake Rates of Isobutane in MFI Crystals: An Infrared Microscopy Study. Chemistry of Materials, 2007, 19, 6012-6019.	6.7	54
184	Exchange Dynamics at the Interface of Nanoporous Materials with their Surroundings. Physical Review Letters, 2007, 99, 228301.	7.8	42
185	Application of Interference Microscopy and IR Microscopy for Characterizing and Investigating Mass Transport in Nanoporous Materials. Chemical Engineering and Technology, 2007, 30, 995-1002.	1.5	46
186	Oriented Crystallisation on Supports and Anisotropic Mass Transport of the Metal-Organic Framework Manganese Formate. European Journal of Inorganic Chemistry, 2007, 2007, 60-64.	2.0	142
187	Liquid-phase self-diffusion in hydrating cement pastes â€" results from NMR studies and perspectives for further research. Cement and Concrete Research, 2007, 37, 398-413.	11.0	43
188	Analysis of thermal effects in infrared and interference microscopy: n-Butane-5A and methanolâ€"ferrierite systems. Microporous and Mesoporous Materials, 2007, 104, 18-25.	4.4	23
189	Surface barriers on nanoporous particles: A new method of their quantitation by PFG NMR. Microporous and Mesoporous Materials, 2007, 104, 89-96.	4.4	25
190	Synthesis of large crystals of all-silica zeolite ferrierite. Microporous and Mesoporous Materials, 2007, 104, 179-184.	4.4	30
191	Mixture diffusion in zeolites studied by MAS PFG NMR and molecular simulation. Microporous and Mesoporous Materials, 2007, 105, 124-131.	4.4	76
192	Dynamical aspects of the adsorption hysteresis phenomenon. Magnetic Resonance Imaging, 2007, 25, 481-484.	1.8	11
193	Deposition of vanadium silicalite-1 nanoparticles on SBA-15 materials. Structural and transport characteristics of SBA-VS-15. Microporous and Mesoporous Materials, 2007, 99, 14-22.	4.4	23
194	Isotropic concentration profiles during diffusion-limited desorption from anisotropic media. Journal of Colloid and Interface Science, 2007, 305, 183-187.	9.4	0
195	The options of interference microscopy to explore the significance of intracrystalline diffusion and surface permeation for overall mass transfer on nanoporous materials. Adsorption, 2007, 13, 215-223.	3.0	34
196	Supercritical fluids in mesoporesâ€"new insight using NMR. Adsorption, 2007, 13, 197-200.	3.0	10
197	On the Sticking Probability of Aromatic Molecules on Zeolites. Reply to â€œComment on â€˜STICKING PROBABILITY ON ZEOLITES'â€• Journal of Physical Chemistry B, 2006, 110, 17694-17695.	2.6	9
198	Internal Concentration Gradients of Guest Molecules in Nanoporous Host Materials:Â Measurement and Microscopic Analysis. Journal of Physical Chemistry B, 2006, 110, 23821-23828.	2.6	59

#	Article	IF	Citations
199	Porous Materials. , 2006, , 231-250.		2
200	Exploration of molecular dynamics during transient sorption of fluids in mesoporous materials. Nature, 2006, 443, 965-968.	27.8	218
201	NMR diffusion and relaxation studies during cement hydrationâ€"A non-destructive approach for clarification of the mechanism of internal post curing of cementitious materials. Cement and Concrete Research, 2006, 36, 817-826.	11.0	86
202	The influence of the desorption barrier on the transport of molecules through the external surface of nanoporous crystals. Chemical Physics Letters, 2006, 430, 60-66.	2.6	22
203	Selective multi-component diffusion measurement in zeolites by pulsed field gradient NMR. Microporous and Mesoporous Materials, 2006, 90, 271-277.	4.4	27
204	A memorial. Microporous and Mesoporous Materials, 2006, 90, 1-4.	4.4	4
205	PFG NMR and QENS diffusion study of n-alkane homologues in MFI-type zeolites. Microporous and Mesoporous Materials, 2006, 90, 299-306.	4.4	75
206	Guest-specific diffusion anisotropy in nanoporous materials: Molecular dynamics and dynamic Monte Carlo simulations. Adsorption, 2006, 12, 417-422.	3.0	4
207	NMR Studies on the Diffusion of Hydrocarbons on the Metal-Organic Framework Material MOF-5. Angewandte Chemie - International Edition, 2006, 45, 2123-2126.	13.8	211
208	A Closer Look at Nanoporous Materials. Angewandte Chemie - International Edition, 2006, 45, 3732-3733.	13.8	2
209	Unprecedented Insight into Diffusion by Monitoring the Concentration of Guest Molecules in Nanoporous Host Materials. Angewandte Chemie - International Edition, 2006, 45, 7846-7849.	13.8	107
210	Two-component desorption from anisotropic pore networks. Journal of Chemical Physics, 2006, 124, 034713.	3.0	4
211	Molecular dynamics under confinement to one dimension: options of measurement and accessible information. New Journal of Physics, 2005, 7, 15-15.	2.9	42
212	Long-range diffusion in beds of nanoporous particles: pitfalls and potentials. Magnetic Resonance Imaging, 2005, 23, 139-145.	1.8	8
213	Quantitation of diffusion in zeolite catalysts. Microporous and Mesoporous Materials, 2005, 85, 195-206.	4.4	82
214	Combining macroscopic and microscopic diffusion studies in zeolites using NMR techniques. Magnetic Resonance Imaging, 2005, 23, 227-232.	1.8	20
215	Pulsed-field gradient nuclear magnetic resonance study of transport properties of fluid catalytic cracking catalysts. Magnetic Resonance Imaging, 2005, 23, 233-237.	1.8	14
216	New options for measuring molecular diffusion in zeolites by MAS PFG NMR. Chemical Physics Letters, 2005, 407, 53-57.	2.6	33

#	Article	IF	Citations
217	Is there a coupling between rotational and translational motion of methane in silicalite-1 and AlPO4-5?. Chemical Physics Letters, 2005, 411, 423-428.	2.6	3
218	Concentration-dependent self-diffusion of adsorbates in mesoporous materials. Magnetic Resonance Imaging, 2005, 23, 209-214.	1.8	24
219	Sorption Kinetics and Intracrystalline Diffusion of Methanol in Ferrierite: An Example of Disguised Kinetics. Adsorption, 2005, 11, 235-244.	3.0	56
220	Diffusivities of n-Alkanes in 5A Zeolite Measured by Neutron Spin Echo, Pulsed-Field Gradient NMR, and Zero Length Column Techniques. Adsorption, 2005, 11, 403-407.	3.0	55
221	Internal Transport Resistances and their Influence on Diffusion in Zeolites as Traced by Microscopic Measuring Techniques. Adsorption, 2005, 11, 455-460.	3.0	31
222	The self-diffusion behavior of polyethylene glycol in cartilageas studied by pulsed-field gradient NMR. Physica Medica, 2005, 21, 69-73.	0.7	3
223	PFG NMR Studies of Anomalous Diffusion. , 2005, , 417-459.		5
224	Lambert diffusion in porous media in the Knudsen regime: Equivalence of self-diffusion and transport diffusion. Physical Review E, 2005, 72, 030101.	2.1	24
225	Relation Between Structure and Diffusion in Nanostructured Porous Solids and in Lipid Membranes. Materials Research Society Symposia Proceedings, 2005, 899, 1.	0.1	0
226	Sticking Probability on Zeolites. Journal of Physical Chemistry B, 2005, 109, 13523-13528.	2.6	31
227	The Role of Mesopores in Intracrystalline Transport in USY Zeolite:Â PFG NMR Diffusion Study on Various Length Scales. Journal of the American Chemical Society, 2005, 127, 13055-13059.	13.7	211
228	Diffusion in Fluid Catalytic Cracking Catalysts on Various Displacement Scales and Its Role in Catalytic Performance. Chemistry of Materials, 2005, 17, 2466-2474.	6.7	74
229	Surface Self-Diffusion of Organic Molecules Adsorbed in Porous Silicon. Journal of Physical Chemistry B, 2005, 109, 5746-5752.	2.6	40
230	Concentration-dependent self-diffusion of liquids in nanopores: A nuclear magnetic resonance study. Journal of Chemical Physics, 2004, 120, 11804-11814.	3.0	83
231	Boundary effects of molecular diffusion in nanoporous materials: A pulsed field gradient nuclear magnetic resonance study. Journal of Chemical Physics, 2004, 120, 367-373.	3.0	44
232	Influence of Defects on the External Crystal Surface on Molecular Uptake into MFI-Type Zeolites. Chemistry of Materials, 2004, 16, 3552-3558.	6.7	89
233	Background gradient suppression in stimulated echo NMR diffusion studies using magic pulsed field gradient ratios. Journal of Magnetic Resonance, 2004, 166, 164-173.	2.1	52
234	Co-Micellization Investigated by Pulsed Field Gradient-NMR Spectroscopy. Macromolecular Rapid Communications, 2004, 25, 1015-1018.	3.9	13

#	Article	IF	Citations
235	Modeling molecular diffusion in channel networks via displacements between the channel segments. Physical Chemistry Chemical Physics, 2004, 6, 3676-3679.	2.8	16
236	Direct Investigation of the Fate of NAPL Contaminations in a Hydrating Cement Matrix by Means of Magnetic Resonance Techniques. Environmental Science & Technology, 2004, 38, 880-885.	10.0	4
237	Measurement of Diffusion in Zeolitesâ€"A Never Ending Challenge?. Adsorption, 2003, 9, 29-35.	3.0	99
238	Title is missing!. Adsorption, 2003, 9, 235-241.	3.0	9
239	Molecular Mobility in a Poly(ethylene glycol)â€"Poly(vinyl pyrrolidone) Blends: Study by the Pulsed Gradient NMR Techniques. Colloid Journal, 2003, 65, 684-690.	1.3	1
240	Title is missing!. Colloid Journal, 2003, 65, 60-64.	1.3	1
241	PFG NMR observation of an extremely strong dependence of the ammonia self-diffusivity on its loading in H-ZSM-5. Journal of Catalysis, 2003, 213, 321-323.	6.2	11
242	Lateral diffusion of a transmembrane peptide in lipid bilayers studied by pulsed field gradient NMR in combination with magic angle sample spinning. Chemical Physics Letters, 2003, 379, 555-561.	2.6	32
243	Structure-mobility relations of molecular diffusion in nanoporous materials. Magnetic Resonance Imaging, 2003, 21, 185-191.	1.8	19
244	The gel-forming behaviour of dextran in the presence of KCl: a quantitative 13C and pulsed field gradient (PFG) NMR study. Biophysical Chemistry, 2003, 104, 131-140.	2.8	13
245	Diffusion of n-hexane in 5A zeolite studied by the neutron spin-echo and pulsed-field gradient NMR techniques. Microporous and Mesoporous Materials, 2003, 59, 113-121.	4.4	25
246	Adsorption and Reaction in Single-File Networks. Journal of Physical Chemistry B, 2003, 107, 1821-1831.	2.6	19
247	Tracing Memory Effects in Correlated Diffusion Anisotropy in MFI-Type Zeolites by MD Simulation. Journal of Physical Chemistry B, 2003, 107, 3515-3521.	2.6	14
248	Inhomogeneous Distribution of Water Adsorbed under Low Pressure in CrAPO-5 and SAPO-5:Â An Interference Microscopy Study. Journal of Physical Chemistry B, 2003, 107, 4685-4687.	2.6	47
249	Intracrystalline monitoring of molecular uptake into the one-dimensional channels of the AFI-type crystals using interference microscopy. Journal of Chemical Physics, 2003, 118, 6129-6132.	3.0	36
250	Stallmach and KÃrger Reply:. Physical Review Letters, 2003, 90, .	7.8	7
251	Memory effects in correlated anisotropic diffusion. Europhysics Letters, 2003, 63, 465-471.	2.0	14
252	Diffusion in Zeolites. , 2003, , .		16

#	Article	IF	Citations
253	Fractal Geometry of Surface Areas of Sand Grains Probed by Pulsed Field Gradient NMR. Physical Review Letters, 2002, 88, 105505.	7.8	53
254	Different time regimes of tracer exchange in single-file systems. Physical Review E, 2002, 66, 052601.	2.1	33
255	Pulsed field gradient nuclear magnetic resonance study of longâ€“range diffusion in beds of NaX zeolite: Evidence for different apparent tortuosity factors in the Knudsen and bulk regimes. Journal of Chemical Physics, 2002, 117, 1935-1938.	3.0	46
256	The Random Walk of Understanding Diffusion. Industrial & Engineering Chemistry Research, 2002, 41, 3335-3340.	3.7	27
257	Structure-Related Diffusion in Nanoporous Materials. , 2002, , 175-193.		0
258	Mass Transfer in Micro- and Mesoporous Materials. Chemical Engineering and Technology, 2002, 25, 769.	1.5	67
259	High-Resolution DOSY NMR with Spins in Different Chemical Surroundings: Influence of Particle Exchange. Journal of Magnetic Resonance, 2002, 157, 124-131.	2.1	73
260	On the diffusion of water in silicalite-1: MD simulations using ab initio fitted potential and PFG NMR measurements. Applied Catalysis A: General, 2002, 232, 59-66.	4.3	39
261	Evidence for the existence of intracrystalline transport barriers in MFI-type zeolites: a model consistency check using MC simulations. Microporous and Mesoporous Materials, 2002, 55, 139-145.	4.4	81
262	Comparative QENS and PFG NMR diffusion studies of water in zeolite NaCaA. Microporous and Mesoporous Materials, 2002, 55, 147-158.	4.4	83
263	PFG NMR and internal magnetic field gradients in plant-based materials. Magnetic Resonance Imaging, 2002, 20, 567-573.	1.8	14
264	Adsorption by single-file networks under molecular traffic control. Applied Surface Science, 2002, 196, 273-280.	6.1	2
265	Self-diffusion of polymers in cartilage as studied by pulsed field gradient NMR. Biophysical Chemistry, 2002, 97, 251-260.	2.8	35
266	Regular Intergrowth in the AFI-Type Crystals:â€‰ Influence on the Intracrystalline Adsorbate Distribution As Observed by Interference and FTIR-Microscopy. Journal of the American Chemical Society, 2002, 124, 8690-8692.	13.7	81
267	Direct measurement of water self-diffusion in hardening blast furnace slag cement pastes by means of nuclear magnetic resonance techniques. Journal of Applied Physics, 2001, 90, 518-520.	2.5	5
268	PFG NMR Study of Diffusion in MFI-Type Zeolites:â€‰ Evidence of the Existence of Intracrystalline Transport Barriers. Journal of Physical Chemistry B, 2001, 105, 5922-5927.	2.6	108
269	Fluorescence Probe and Pulsed Field Gradient NMR Study of Aqueous Solutions of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc	3.5	18
270	Nuclear Spin Relaxation and Water Self-diffusion in Hardening Magnesium Oxychloride Cement. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 561-564.	1.5	1

#	Article	IF	Citations
271	Self-diffusion in poly(N? -vinyl pyrrolidone) - poly(ethylene glycol) systems. Colloid and Polymer Science, 2001, 279, 532-538.	2.1	16
272	NMR studies of water diffusion and relaxation in hydrating slag-based construction materials. Magnetic Resonance Imaging, 2001, 19, 547-548.	1.8	9
273	A simple jump model for describing the molecular traffic control effect. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 459-467.	4.7	5
274	Determination of Genuine Diffusivities in Heterogeneous Media Using Stimulated Echo Pulsed Field Gradient NMR. Journal of Magnetic Resonance, 2001, 149, 228-233.	2.1	39
275	Generation and Application of Ultra-High-Intensity Magnetic Field Gradient Pulses for NMR Spectroscopy. Journal of Magnetic Resonance, 2001, 151, 260-268.	2.1	154
276	Molecular Dynamics in Poly(N-vinylpyrrolidone)-Poly(ethylene glycol) Blends Investigated by the Pulsed-Field Gradient NMR Method: Effects of Aging, Hydration and PEG Chain Length. Macromolecular Chemistry and Physics, 2001, 202, 2648-2656.	2.2	16
277	Self-Diffusion in a Lamellar and Gyroid (Ordered) Diblock Copolymer Investigated Using Pulsed Field Gradient NMR. Macromolecules, 2001, 34, 868-873.	4.8	15
278	Interference Microscopy Investigation of the Influence of Regular Intergrowth Effects in MFI-Type Zeolites on Molecular Uptake. Journal of Physical Chemistry B, 2001, 105, 10217-10222.	2.6	97
279	Reaction and particle distribution in networks of single-file systems. Europhysics Letters, 2001, 53, 8-14.	2.0	18
280	Nuclear magnetic resonance study of diffusion and relaxation in hydrating white cement pastes of different water content. Journal of Applied Physics, 2001, 89, 8061-8065.	2.5	26
281	Application of pulsed field gradient NMR to characterize the transport properties of microporous membranes. Membrane Science and Technology, 2000, 6, 97-108.	0.5	3
282	Chain trapping in diblock copolymers near the ordering transition. Europhysics Letters, 2000, 51, 68-74.	2.0	8
283	Pulsed High-Field Gradient in Vivo NMR Spectroscopy to Measure Diffusional Water Permeability in Corynebacterium glutamicum. Analytical Biochemistry, 2000, 279, 100-105.	2.4	21
284	Synthesis and characterization of the layered sodium silicate ilerite. Microporous and Mesoporous Materials, 2000, 40, 43-52.	4.4	63
285	Percolation diffusion of guest molecules in NaCaA zeolites: field gradient NMR studies and Monte Carlo simulations. Journal of Molecular Catalysis A, 2000, 158, 373-376.	4.8	7
286	Calculation of separation diagrams from ternary liquid adsorption on activated carbons. Separation and Purification Technology, 2000, 20, 41-48.	7.9	7
287	Reactivity Enhancement by Molecular Traffic Control. Journal of Catalysis, 2000, 194, 1-3.	6.2	39
288	Anisotropic Diffusion in a Nematic Liquid Crystalâ€" An Electric Field PFG NMR Approach. Journal of Magnetic Resonance, 2000, 143, 427-430.	2.1	14

#	Article	IF	Citations
289	Blastfurnace slag cements: A construction material with very unusual nuclear spin relaxation behavior during hardening. Journal of Applied Physics, 2000, 88, 4269.	2.5	21
290	Application of the two-step model to the diffusion of linear diatomic and triatomic molecules in silicalite. Physical Chemistry Chemical Physics, 2000, 2, 1455-1463.	2.8	19
291	Dynamics of a Triblock Copolymer in a Selective Solvent for the Middle Block Investigated Using Pulsed Field Gradient NMR. Macromolecules, 2000, 33, 7066-7071.	4.8	12
292	Evidence of Anisotropic Self-Diffusion of Guest Molecules in Nanoporous Materials of MCM-41 Type. Journal of the American Chemical Society, 2000, 122, 9237-9242.	13.7	116
293	Monitoring the evolution of intracrystalline concentration. Europhysics Letters, 1999, 46, 204-210.	2.0	58
294	Simultaneous Measurement of Self- and Transport Diffusivities in Zeolites. Physical Review Letters, 1999, 82, 4260-4263.	7.8	157
295	Length and occupancy dependence of the tracer exchange in single-file systems. Journal of Chemical Physics, 1999, 110, 3970-3980.	3.0	39
296	Self-diffusion of an asymmetric diblock copolymer above and below the order-to-disorder transition temperature. Journal of Chemical Physics, 1999, 111, 2789-2796.	3.0	15
297	Investigating one-dimensional diffusion by quasielastic neutron scattering: A theoretical approach. Physical Review E, 1999, 59, 6662-6671.	2.1	12
298	Network of characterizing functions for stationary populations. Physical Review E, 1999, 60, 2737-2740.	2.1	11
299	A comparative study of water interaction with alkaliâ€“metal cation-exchanged X-type zeolites by pulsed field gradient NMR and temperature-programmed desorption. Applied Catalysis A: General, 1999, 188, 241-246.	4.3	9
300	Molecular dynamics under the confinement by the host lattice in zeolitic adsorbateâ€“adsorbent systems. Chemical Engineering Journal, 1999, 74, 15-24.	12.7	22
301	Interference microscopy as a technique for directly measuring intracrystalline transport diffusion in zeolites. Microporous and Mesoporous Materials, 1999, 32, 101-110.	4.4	77
302	The Potentials of Pulsed Field Gradient NMR for Investigation of Porous Media. Adsorption, 1999, 5, 117-133.	3.0	108
303	Molecular dynamics of glass-forming liquids in confining geometries. Physical Chemistry Chemical Physics, 1999, 1, 519-523.	2.8	17
304	Self-diffusion investigations on a series of PEP-PDMS diblock copolymers with different morphologies by pulsed field gradient NMR. Physical Chemistry Chemical Physics, 1999, 1, 3923-3931.	2.8	19
305	â€œTwo-stepâ€•model of molecular diffusion in silicalite. Journal of Chemical Physics, 1999, 110, 1163-1172.	3.0	40
306	Anisotropic Self-Diffusion in a Hexagonally Ordered Asymmetric PEPâ^'PDMS Diblock Copolymer Studied by Pulsed Field Gradient NMR. Macromolecules, 1999, 32, 5872-5877.	4.8	22

#	Article	IF	Citations
307	PFG NMR study of the transport properties of A-type zeolite membranes. Chemical Communications, 1999, , 57-58.	4.1	9
308	Study of Structure Formation in Aqueous Solutions of Poly(ethylene oxide)â^'Poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Isomerization of an Azobenzene Dye and Self-Diffusion of Copolymer Molecules. Langmuir, 1999, 15, 1059-1066.	3.5	19
309	A network of characteristic functions describing the dynamics of adsorbateâ€adsorbent systems. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 929-944.	0.9	12
310	On the Unusually High Apparent Activation Energy of Chemical Conversion under Single-File Conditions. Journal of Catalysis, 1998, 176, 513-526.	6.2	15
311	Liquid polyethylene glycol dispersed in a poly(styrene)-b-poly(ethylene/butylene)-b-poly(styrene) elastomer: determination of morphology and molecular mobility by light and electron microscopy as well as nuclear magnetic resonance self-diffusion andT2 measurements. Polymers for Advanced Technologies, 1998, 9, 700-708.	3.2	7
312	Diffusion anisotropy in natural chabazite. Microporous and Mesoporous Materials, 1998, 22, 289-295.	4.4	34
313	Diffusion of ammonia in silicalite studied by QENS and PFG NMR. Microporous and Mesoporous Materials, 1998, 26, 67-75.	4.4	26
314	Diffusion of a Mixture of Methane and Xenon in Silicalite:Â A Molecular Dynamics Study and Pulsed Field Gradient Nuclear Magnetic Resonance Experiments. Journal of Physical Chemistry B, 1998, 102, 6375-6381.	2.6	93
315	Calculating exact propagators in single-file systems via the reflection principle. Physical Review E, 1998, 57, 4382-4397.	2.1	87
316	Comment on â€œNormal, single-file, and dual-mode diffusion of binary adsorbate mixtures in AlPO4-5â€•[J. Chem. Phys. 107, 4384 (1997)]. Journal of Chemical Physics, 1998, 109, 5691-5692.	3.0	5
317	A new method for the NMR-spectroscopic measurement of the deprotonation energy of surface hydroxyl groups in zeolites. Studies in Surface Science and Catalysis, 1997, 105, 463-470.	1.5	5
318	Molecular Simulations and NMR Measurements of Binary Diffusion in Zeolites. Journal of Physical Chemistry B, 1997, 101, 6469-6473.	2.6	154
319	Unidirectional and Single-File Diffusion of Molecules in One-Dimensional Channel Systems. A Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry B, 1997, 101, 5834-5841.	2.6	112
320	Exact analytical description of tracer exchange and particle conversion in single-file systems. Physical Review E, 1997, 55, 5697-5712.	2.1	54
321	In Situ13C Fourier Transform Pulsed Field Gradient NMR Study of Intracrystalline Diffusion during Isopropanol Conversion in X-Type Zeolites. Journal of Catalysis, 1997, 167, 248-255.	6.2	42
322	Transient entanglement behaviour in a poly(propylene glycole) melt: A field gradient NMR self-diffusion study. Colloid and Polymer Science, 1997, 275, 187-191.	2.1	21
323	Restricted self-diffusion in an aqueous solution of poly(ethylene oxide) poly(propylene oxide) poly(ethylene oxide) triblock copolymer. Colloid and Polymer Science, 1997, 275, 730-735.	2.1	17
324	Chain diffusion in the melt of an asymmetric diblock copolymer in the disordered and ordered state. Colloid and Polymer Science, 1997, 275, 807-813.	2.1	11

#	Article	IF	Citations
325	Diffusion in a unidimensional zeolite pore system: Propane in AlPO4-5. Microporous Materials, 1997, 8, 193-200.	1.6	14
326	Measurement of intracrystalline diffusion of nitrogen in zeolites NaX and NaCaA using pulsed field gradient n.m.r.. Zeolites, 1997, 18, 71-74.	0.5	24
327	Pulsed Field Gradient NMR Self-Diffusion Study in Distinct Phases of the Ternary System Water/n-Heptane/Igepal CA-520. Journal of Colloid and Interface Science, 1997, 190, 9-16.	9.4	6
328	An MD study on the diffusion of methane in a cation-free LTA zeolite. Illustrations and new results. Chemical Physics Letters, 1997, 265, 253-258.	2.6	25
329	Theory of Tracer Exchange in Single-File Systems. Collection of Czechoslovak Chemical Communications, 1997, 62, 995-1014.	1.0	6
330	Single-File Diffusion Observation. Physical Review Letters, 1996, 76, 2762-2765.	7.8	406
331	NMR Studies of Single-File Diffusion in Unidimensional Channel Zeolites. Science, 1996, 272, 702-704.	12.6	325
332	In SituPFG NMR Study of Intracrystalline Diffusion during Ethene Conversion in ZSM-5. Journal of Catalysis, 1996, 163, 130-137.	6.2	42
333	Influence of intracrystalline confinement on pulsed field gradient NMR diffusion studies with zeolite crystallites of finite size. Microporous Materials, 1996, 6, 355-361.	1.6	8
334	Pulsed field gradient NMR and nuclear magnetic relaxation studies of water mobility in hydrated collagen II. Magnetic Resonance in Medicine, 1996, 36, 241-248.	3.0	51
335	Uptake of silicone oil in the polystyrene matrix of the two phase system polystyrene/silicone oil as detected by NMR. Macromolecular Rapid Communications, 1996, 17, 81-85.	3.9	3
336	Pulsed field gradient NMR studies of small molecule diffusion in amorphous microporous silicas. Advanced Materials, 1996, 8, 912-916.	21.0	11
337	Pulsed-Field-Gradient NMR Analogue of the Single-Slit Diffraction Pattern. Journal of Magnetic Resonance Series A, 1996, 122, 248-250.	1.6	20
338	PFG NMR tracer exchange measurements of xenon in zeolites. Magnetic Resonance Imaging, 1996, 14, 967-969.	1.8	3
339	Application of the thermal frequency response method and of pulsed field gradient NMR to study water diffusion in zeolite NaX. Adsorption, 1996, 2, 205-216.	3.0	20
340	129Xe NMR Study of the Bed Resistance to Molecular Transport in Assemblages of Zeolite Crystallites. The Journal of Physical Chemistry, 1996, 100, 7200-7203.	2.9	25
341	NMR evidence of anomalous molecular diffusion due to structural confinement. Europhysics Letters, 1996, 34, 483-488.	2.0	20
342	Application of NMR Methods to Catalysis. Catalysis, 1996, , 1-176.	0.0	3

#	Article	IF	Citations
343	An MD Study on the Correlation between Transport Diffusion and Self-Diffusion in Zeolites. Zeitschrift Fur Physikalische Chemie, 1995, 189, 211-220.	2.8	29
344	¹²⁹Xe PFG NMR Tracer Exchange Measurements on Zeolites. Zeitschrift Fur Physikalische Chemie, 1995, 189, 43-52.	2.8	6
345	Measurement of the diffusivity of benzene in a microporous membrane by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. Studies in Surface Science and Catalysis, 1995, 98, 204-205.	1.5	0
346	On the Use of Pulsed Field Gradients in a High-Field NMR Spectrometer to Study Restricted Diffusion in Zeolites. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1995, 50, 186-190.	1.5	57
347	Pitfalls in PFG NMR Self-Diffusion Measurements with Powder Samples. Journal of Magnetic Resonance Series A, 1995, 113, 278-280.	1.6	32
348	PFG NMR Self-Diffusion Measurements with Large Field Gradients. Journal of Magnetic Resonance Series A, 1995, 114, 101-104.	1.6	36
349	Influence of exchangeable cations on the diffusion of neutral diffusants in zeolites of type LTA. An MD study. Chemical Physics Letters, 1995, 242, 361-366.	2.6	33
350	Measurement of the diffusivity of benzene in microporous silica by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. Adsorption, 1995, 1, 197-201.	3.0	13
351	Mobility of cyclohexane in a microporous silica sample: a quasielastic neutron scattering and NMR pulsed-field gradient technique study. Journal of Membrane Science, 1995, 108, 71-78.	8.2	16
352	NMR study of intrinsic diffusion and reaction in CsNaX type zeolites. Applied Catalysis A: General, 1995, 130, 227-241.	4.3	22
353	Unexpectedly low translational mobility of methane and tetrafluoromethane in the large-pore molecular sieve VPI-5. Microporous Materials, 1995, 3, 401-408.	1.6	17
354	Tracer Exchange and Catalytic Reaction in Single-File Systems. Journal of Catalysis, 1995, 157, 656-664.	6.2	61
355	Investigation of the Restricted Diffusion in Spherical Cavities of Polymers by Pulsed Field Gradient Nuclear Magnetic Resonance. Macromolecules, 1995, 28, 2345-2350.	4.8	15
356	Professor Harry Pfeifer: 65th Birthday. Zeolites, 1994, 14, 159-160.	0.5	0
357	PFG NMR self-diffusion measurements in microporous adsorbents. Magnetic Resonance Imaging, 1994, 12, 235-239.	1.8	17
358	NMR diffusion studies in heterogeneous systems. TrAC - Trends in Analytical Chemistry, 1994, 13, 145-157.	11.4	25
359	Diffusion of methanol in NaX crystals: Comparison of i.r., ZLC, and PFG-n.m.r. measurements. Zeolites, 1994, 14, 242-249.	0.5	65
360	P.f.g. n.m.r. study of the influence of the exchangeable cations on the self-diffusion of hydrocarbons in zeolites. Zeolites, 1994, 14, 320-325.	0.5	37

#	Article	IF	Citations
361	Anomalous Segment Diffusion in Polymer Melts. Macromolecules, 1994, 27, 4274-4277.	4.8	36
362	An MD study of methane diffusion in zeolites of structure type LTA. Studies in Surface Science and Catalysis, 1994, 84, 2139-2146.	1.5	10
363	PFG NMR study of multicomponent selfdiffusion on active carbons. Carbon, 1993, 31, 1083-1087.	10.3	8
364	On the heat effect in measurements of sorption kinetics by the frequency response method. Chemical Engineering Science, 1993, 48, 715-722.	3.8	52
365	PFG NMR Self-Diffusion Study of n-Paraffins Adsorbed on Silica Gel. Journal of Colloid and Interface Science, 1993, 159, 366-371.	9.4	12
366	13C Pulsed-Field-Gradient NMR Diffusion Studies of Guest Molecules in Zeolites. Journal of Magnetic Resonance Series A, 1993, 102, 270-273.	1.6	23
367	Space- and Time-Resolved PFG NMR Self-Diffusion Measurements in Zeolites. Journal of Magnetic Resonance Series A, 1993, 102, 327-331.	1.6	26
368	On the diffusion mechanism of methane in a cation-free zeolite of type ZK4. Chemical Physics, 1993, 174, 229-236.	1.9	43
369	129Xe and 13C PFG n.m.r. study of the intracrystalline self-diffusion of Xe, CO2, and CO. Zeolites, 1993, 13, 50-55.	0.5	88
370	Long-time limit of the self-correlation-function of one-dimensional diffusion. Physical Review E, 1993, 47, 1427-1428.	2.1	57
371	Molecular Mobility Measurement of Hydrocarbons in Zeolites by NMR Techniques. Advances in Catalysis, 1993, 39, 351-414.	0.2	40
372	High-temperature pulsed field gradient nuclear magnetic resonance self-diffusion measurements of n-alkanes in MFI-type zeolites. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 3505-3509.	1.7	130
373	Self-diffusion measurements of n-alkanes in zeolite NaCaA by pulsed-field gradient nuclear magnetic resonance. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 515-519.	1.7	53
374	Straightforward derivation of the long-time limit of the mean-square displacement in one-dimensional diffusion. Physical Review A, 1992, 45, 4173-4174.	2.5	117
375	PFG NMR study of self-diffusion of low carbon chain length paraffins in carbonaceous adsorbents. Journal of Colloid and Interface Science, 1992, 152, 281-283.	9.4	9
376	Studies of molecular diffusion in porous crystals (zeolites). Journal of Molecular Liquids, 1992, 54, 229-238.	4.9	3
377	Single-file diffusion and reaction in zeolites. Journal of Catalysis, 1992, 136, 283-299.	6.2	189
378	In situ measurement of molecular diffusion during catalytic reaction by pulsed-field gradient NMR spectroscopy. Journal of Catalysis, 1992, 137, 243-251.	6.2	52

#	Article	IF	Citations
379	On the interdependence of the principal values of the diffusion tensor in zeolites with channel networks. Zeolites, 1992, 12, 872-873.	0.5	26
380	An MD simulation on the applicability of the diffusion equation for molecules adsorbed in a zeolite. Chemical Physics Letters, 1992, 198, 283-287.	2.6	57
381	Fourier-transform pulsed-field-gradient1H nuclear magnetic resonance investigation of the diffusion of light n-alkanes in zeolite ZSM-5. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 1935-1943.	1.7	45
382	Nuclear magnetic resonance measurement of mass transfer in molecular sieve crystallites. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 1989-1996.	1.7	44
383	Selective two-component self-diffusion measurement of adsorbed molecules by pulsed field gradient Fourier transform NMR. Journal of the American Chemical Society, 1991, 113, 4812-4815.	13.7	49
384	Tracing indications of anomalous diffusion in adsorbent-adsorbate systems by PFG NMR spectroscopy. Journal of the American Chemical Society, 1991, 113, 7571-7574.	13.7	25
385	Microdynamics of Guest Molecules in Zeolites Studied by Quasielastic Neutron Scattering and Nmr Pulsed Field Gradient Technique. Studies in Surface Science and Catalysis, 1991, , 445-455.	1.5	8
386	Observing Diffusion Anisotropy in Zeolites by Pulsed Field Gradient NMR. Zeitschrift Fur Physikalische Chemie, 1991, 173, 225-234.	2.8	55
387	PFG n.m.r. study of diffusion anisotropy in oriented ZSM-5 type zeolite crystallites. Zeolites, 1991, 11, 816-821.	0.5	84
388	Comparison of 129Xe n.m.r. and 1H pulsed field gradient n.m.r. measurements for the location of the deposit of carbonaceous compounds on zeolite A. Zeolites, 1991, 11, 103-106.	0.5	7
389	Comment on â€œThe diffusion of benzene in high silica zeolite ZSM-5 studied by PFGNMR and QUENSâ€• Colloids and Surfaces, 1991, 58, 203-205.	0.9	10
390	Basic Principles and Recent Results of H Magic-Angle-Spinning and Pulsed Field Gradient Nuclear Magnetic Resonance Studies on Zeolites11'H Mas Nmr Studies on Dehydrated Zeolites. Studies in Surface Science and Catalysis, 1991, 65, 89-115.	1.5	35
391	NMR and IR studies of zeolite H-ZSM-5 modified with orthophosphoric acid. Journal of Catalysis, 1990, 124, 367-375.	6.2	87
392	Influence of molecular shape on probing mass transfer resistances on zeolites. AICHE Journal, 1990, 36, 1500-1504.	3.6	15
393	Molecular mobility in coal-solvent multicomponent systems. Fuel, 1990, 69, 1249-1252.	6.4	5
394	Comparison of nuclear magnetic resonance tracer exchange and molecular uptake of benzene on pentasils. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 881-885.	1.7	44
395	On the translational mobility of benzene adsorbed on NaX-type zeolites. Journal of the Chemical Society Chemical Communications, 1990, , 341-342.	2.0	36
396	A simple pulse sequence to exclude falsification of NMR self-diffusion results by multi-phase relaxation. Journal of the Chemical Society Chemical Communications, 1990, , 1454-1455.	2.0	12

#	Article	IF	Citations
397	Measurement of the intracrystalline self-diffusion of xenon in zeolites by the NMR pulsed field gradient technique. Journal of the American Chemical Society, 1990, 112, 2175-2178.	13.7	85
398	Intracrystalline mass transfer in zeolites monitored by microscopic and macroscopic techniques. Journal of the American Chemical Society, 1990, 112, 7-9.	13.7	37
399	NMR Characterization of Zeolite H-ZSM-5 after Post-Synthesis Modification with H3PO4. Studies in Surface Science and Catalysis, 1989, 52, 295-304.	1.5	11
400	On the comparison between macroscopic and n.m.r. measurements of intracrystalline diffusion in zeolites. Zeolites, 1989, 9, 267-281.	0.5	191
401	Intracrystalline self-diffusion of water and short-chain-length paraffins in A-type zeolites. Zeolites, 1989, 9, 247-249.	0.5	30
402	On the limits of the application of the n.m.r. pulsed-field gradient technique for self-diffusion measurements in zeolites. Zeolites, 1989, 9, 299-302.	0.5	13
403	On the correlation between the results of 129Xe n.m.r. line shift and 1H n.m.r. pulsed-field-gradient measurements on zeolites. Zeolites, 1989, 9, 351-352.	0.5	12
404	Comments on â€œdiffusion of alkanes in molecular sieves: Evidence for confinement effectsâ€• Applied Catalysis, 1989, 52, 165-167.	0.8	0
405	Diffusion of ethane in silicalite-1 by frequency response, sorption uptake and nuclear magnetic resonance techniques. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 1501.	1.0	26
406	Molecular self-diffusion of methane in zeolite ZSM-5 by quasi-elastic neutron scattering and nuclear magnetic resonance pulsed field gradient technique. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 4201.	1.0	95
407	Molecular self-diffusion in active carbons. Pure and Applied Chemistry, 1989, 61, 1875-1880.	1.9	21
408	Fraktale Analyse der Reaktion von Schwefelwasserstoff mit aktivem Zinkoxid. Zeitschrift FÃ¼r Chemie, 1989, 29, 34-35.	0.0	3
409	NMR study of mass transfer in granulated molecular sieves. AICHE Journal, 1988, 34, 1185-1189.	3.6	40
410	NMR study of translational mobility of molecules adsorbed on active carbons. Carbon, 1988, 26, 515-520.	10.3	26
411	19F NMR diffusion studies of molecules adsorbed on zeolites. Journal of Fluorine Chemistry, 1988, 39, 349-356.	1.7	21
412	Intracrystalline self-diffusion of hydrocarbons in zeolite NaX in equilibrium with excess liquid phase. Zeolites, 1988, 8, 251-254.	0.5	6
413	NMR investigations on molecular transport in ZSM-5 type zeolites containing structural defects. Catalysis Today, 1988, 3, 493-499.	4.4	5
414	The influence of chemisorbed molecules on mass transfer in H-ZSM-5-type zeolites and the location of BrÃ¸nsted acid sites. Journal of Catalysis, 1988, 114, 186-189.	6.2	19

#	Article	IF	Citations
415	Mass transfer through beds of zeolite crystallites and the paradox of the evaporation barrier. Langmuir, 1988, 4, 1289-1292.	3.5	18
416	Diffusion, cracking and coking on HZSM-5 of various morphologies. Applied Catalysis, 1988, 42, 15-27.	0.8	35
417	Time correlation during anomalous diffusion in fractal systems and signal attenuation in NMR field-gradient spectroscopy. Physical Review A, 1988, 37, 4514-4517.	2.5	73
418	Principles and Application of Self-Diffusion Measurements by Nuclear Magnetic Resonance. Advances in Magnetic and Optical Resonance, 1988, 12, 1-89.	1.7	530
419	Molecular mobility of methane adsorbed on ZSM-5 containing co-adsorbed benzene, and the location of the benzene molecules. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 2301.	1.0	54
420	Nuclear magnetic resonance self-diffusion studies of methanolâ€“water mixtures in pentasil-type zeolites. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 1843.	1.0	40
421	Investigation of internal silanol groups as structural defects in ZSM-5-type zeolites. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 3459.	1.0	101
422	On the use of NMR pulsed field-gradient spectroscopy for the study of anomalous diffusion in fractal networks. Chemical Physics Letters, 1987, 141, 411-413.	2.6	24
423	Investigation of surface barriers on CaNaA type zeolites by combined application of the n.m.r. tracer desorption method and X-ray photoelectron spectroscopy. Zeolites, 1987, 7, 282-284.	0.5	16
424	N.m.r. self-diffusion studies in zeolite science and technology. Zeolites, 1987, 7, 90-107.	0.5	286
425	Intracrystalline self-diffusion of H2O and CH4 in ZSM-5 zeolites. Zeolites, 1986, 6, 213-216.	0.5	68
426	A phenomenological study of surface barriers in zeolites. Zeolites, 1986, 6, 146-150.	0.5	63
427	Intracrystalline self-diffusion of benzene, toluene and xylene isomers in zeolites Naî—¸X. Zeolites, 1985, 5, 91-95.	0.5	114
428	Comment on hydrocarbon diffusivity in zeolites. Chemical Engineering Science, 1985, 40, 2169-2170.	3.8	14
429	NMR self-diffusion studies in heterogeneous systems. Advances in Colloid and Interface Science, 1985, 23, 129-148.	14.7	190
430	Microdynamics of methane, ethane and propane in ZSM-5 type zeolites. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 2541.	1.0	204
431	Concentration dependence of Fickian diffusivity in solutions and sorption systems. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 3103.	1.0	5
432	Self-diffusion of paraffins and olefins in zeolite Naî—¸X under the influence of residual water molecules. Zeolites, 1984, 4, 188-190.	0.5	44

#	Article	IF	Citations
433	Self-diffusion behaviour of n-heptane/benzene mixtures in the intercrystalline space of packings of NaX zeolite crystals as observed by the NMR pulsed field gradient technique. Colloids and Surfaces, 1984, 11, 353-364.	0.9	22
434	Liquid phase adsorption studies of octene-1 and octane on X-zeolites. Journal of Colloid and Interface Science, 1984, 102, 227-231.	9.4	8
435	NMR Study of Adsorbate Self-Diffusion in Porous Glasses. Journal of the American Ceramic Society, 1983, 66, 69-72.	3.8	36
436	On the Application of the Spin-Locking Technique for NMR Self-Diffusion Measurements by Pulsed Field Gradients. Annalen Der Physik, 1983, 495, 161-165.	2.4	1
437	The propagator representation of molecular transport in microporous crystallites. Journal of Magnetic Resonance, 1983, 51, 1-7.	0.5	110
438	Application of the NMR broad line technique to study phase transitions in microporous materials. Journal of Magnetic Resonance, 1983, 51, 8-13.	0.5	3
439	A study of fast tracer desorption in molecular sieve crystals. AICHE Journal, 1982, 28, 417-423.	3.6	90
440	N.m.r. evidence of the existence of surface barriers on zeolite crystallites. Zeolites, 1982, 2, 275-278.	0.5	59
441	On the importance of dimension variation in determining the limiting steps in adsorption kinetics. Journal of Chemical Technology and Biotechnology, 1982, 32, 376-381.	0.2	21
442	Bestimmung von Trennfaktoren bei der Gemischadsorption an mikroporÃ¶sen Adsorbenzien mit Hilfe der NMRâ€Feldâ€gradientenimpulstechnik. Zeitschrift FÃ¼r Chemie, 1982, 22, 107-108.	0.0	3
443	Diffusion in zeolites. Comparison of sorption and nuclear magnetic resonance diffusivities. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 1485.	1.0	131
444	Molecular transport through assemblages of microporous particles. Journal of Colloid and Interface Science, 1981, 84, 240-249.	9.4	54
445	On the compatibility of diffusion data for adsorbate-adsorbent systems obtained from N.M.R. pulsed field gradient technique and from quasi-elastic neutron scattering. Molecular Physics, 1981, 43, 1189-1191.	1.7	11
446	MÃ¶glichkeiten der Beobachtung molekularer TransportvorgÃnge in Zeolithen. Zeitschrift FÃ¼r Chemie, 1981, 21, 175-182.	0.0	31
447	Sorption kinetics ofn-decane on 5A zeolites from a nonadsorbing liquid solvent. AICHE Journal, 1980, 26, 1044-1046.	3.6	16
448	Intercrystalline molecular transport of ethane in NaCaA zeolites studied by NMR pulsed field gradient technique and by uptake experiments. Journal of Colloid and Interface Science, 1980, 76, 525-531.	9.4	7
449	Comparison of predicted and nuclear magnetic resonance zeolitic diffusion coefficients. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 1562.	1.0	39
450	Application of absolute rate theory to intracrystalline diffusion in zeolites. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 1569.	1.0	30

#	Article	IF	Citations
451	Sorption kinetics of n-hexane on MgA zeolites of different crystal sizes. Study of the rate-limiting transport mechanism. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 597.	1.0	84
452	Self-diffusion of n-paraffins in NaX zeolite. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 717.	1.0	146
453	Influence of heat generated on adsorption in bidisperse adsorbents. Journal of Chemical Technology and Biotechnology, 1979, 29, 339-345.	0.2	22
454	NMR self-diffusion measurements in n-heptaneâ€"benzene mixtures adsorbed on NaX zeolites. Journal of Colloid and Interface Science, 1978, 65, 181-185.	9.4	21
455	Application of zeugmatography to study kinetics of physical adsorption. Chemical Engineering Science, 1978, 33, 1019-1023.	3.8	49
456	Intercrystalline molecular transport in zeolites studied by uptake experiments and by nuclear magnetic resonance pulsed field gradient techniques. Journal of the Chemical Society Faraday Transactions I, 1978, 74, 1210.	1.0	22
457	NMRâ€Untersuchungen zum interkristallinen Stofftransport an Zeolithen im Ãœbergangsgebiet zwischen Knudsenâ€•und Normaldiffusion. Zeitschrift FÃ¼r Chemie, 1978, 18, 155-157.	0.0	6
458	Interpretation and correlation of zeolitic diffusivities obtained from nuclear magnetic resonance and sorption experiments. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 1363.	1.0	193
459	On the consistency of zeolitic self-diffusion coefficients. Journal of Colloid and Interface Science, 1977, 60, 386-388.	9.4	9
460	On the correlation between diffusion and self-diffusion processes of adsorbed molecules in a simple microkinetic model. Surface Science, 1976, 57, 749-754.	1.9	35
461	Untersuchung der Adsorptâ€Selbstdiffusion auf Zeolithen mit Hilfe der	0.0	23
462	Der EinfluÃŸ von OberflÃchenbarrieren auf den Sorptionsvorgang an 5Aâ€Zeolithen. Zeitschrift FÃ¼r Chemie, 1976, 16, 331-332.	0.0	12
463	Theoretical prediction of uptake behaviour in adsorption kinetics of binary gas mixtures using irreversible thermodynamics. Chemical Engineering Science, 1975, 30, 893-896.	3.8	99
464	Zur kernmagnetischen Relaxation in Mehrbereichsystemen mit endlicher rÃumlicher Ausdehnung. Annalen Der Physik, 1974, 486, 277-286.	2.4	5
465	Self-diffusion measurements of water adsorbed in NaY zeolites by means of NMR pulsed field gradient techniques. Journal of Colloid and Interface Science, 1973, 44, 187-188.	9.4	46
466	Some remarks on the straight and cross-coefficients in irreversible thermodynamics of surface flow and on the relation between diffusion and selfdiffusion. Surface Science, 1973, 36, 797-801.	1.9	49
467	Der EinfluÃŸ der Zweibereichdiffusion auf die SpinechodÃmpfung unter BerÃ¼cksichtigung der Relaxation bei Messungen mit der Methode der gepulsten Feldgradienten. Annalen Der Physik, 1971, 482, 107-109.	2.4	71
468	Douglas M. Ruthven: In Memoriam of a Great Scholar and a Caring Friend. Chemie-Ingenieur-Technik, 0, , .	0.8	0