Piotr A Gauden

List of Publications by Year
in descending order

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157 papers	3,266 citations	182225 30 h-index	274796 44 g-index
158 all docs	158 docs citations	158 times ranked	3143 citing authors

#	Article	IF	Citations
1	In silico study on the effects of carbonyl groups on chemical equilibrium of reactions with a polar product occurring under confinement in pores of activated carbons. Chemical Engineering Communications, 2021, 208, 171-182.	1.5	29
2	The Finite Pore Volume GAB Adsorption Isotherm Model as a Simple Tool to Estimate a Diameter of Cylindrical Nanopores. Molecules, 2021, 26, 1509.	1.7	23
3	Atomic-scale molecular models of oxidized activated carbon fibre nanoregions: Examining the effects of oxygen functionalities on wet formaldehyde adsorption. Carbon, 2020, 165, 67-81.	5.4	19
4	Effective Synthesis of Carbon Hybrid Materials Containing Oligothiophene Dyes. Materials, 2019, 12, 3354.	1.3	13
5	The effects of confinement in pores built of folded graphene sheets on the equilibrium of nitrogen monoxide dimerisation reaction. Journal of Physics Condensed Matter, 2019, 31, 135001.	0.7	25
6	Super-sieving effect in phenol adsorption from aqueous solutions on nanoporous carbon beads. Carbon, 2018, 135, 12-20.	5.4	34
7	Carbon Nanohorns as Reaction Nanochambers â€“ a Systematic Monte Carlo Study. Scientific Reports, 2018, 8, 15407.	1.6	29
8	The use of mathematical models for modelling sulphur dioxide sorption on materials produced from fly ashes. Energetika, 2018, 64, .	0.6	1
9	Molecular simulation aided nanoporous carbon design for highly efficient low-concentrated formaldehyde capture. Carbon, 2017, 124, 152-160.	5.4	30
10	Monte Carlo study of chemical reaction equilibria in pores of activated carbons. RSC Advances, 2017, 7, 53667-53679.	1.7	6
11	Morphologically disordered pore model for characterization of micro-mesoporous carbons. Carbon, 2017, 111, 358-370.	5.4	25
12	To what extent can mutual shifting of folded carbonaceous walls in slit-like pores affect their adsorption properties?. Journal of Physics Condensed Matter, 2016, 28, 015002.	0.7	1
13	New findings on the influence of carbon surface curvature on energetics of benzene adsorption from gaseous phase. Chemical Physics Letters, 2016, 645, 157-163.	1.2	4
14	Carbon Nanohorns. , 2016, , 75-114.		1
15	Cubic Carbon Polymorphs. , 2016, , 141-156.		0
16	The influence of geometric heterogeneity of closed carbon nanotube bundles on benzene adsorption from the gaseous phase-Monte Carlo simulations. Adsorption, 2016, 22, 639-651.	1.4	8
17	Using in-situ adsorption dilatometry for assessment of micropore size distribution in monolithic carbons. Carbon, 2016, 103, 263-272.	5.4	36
18	Nano-Structured Carbon Matrixes Obtained from Chitin and Chitosan by a Novel Method. Journal of Nanoscience and Nanotechnology, 2016, 16, 2623-2631.	0.9	12

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19	Water nanodroplet on a graphene surfaceâ€"a new old system. Journal of Physics Condensed Matter, 2016, 28, 495002.	0.7	13
20	Gyroidal nanoporous carbons - Adsorption and separation properties explored using computer simulations. Condensed Matter Physics, 2016, 19, 13003.	0.3	2
21	Water at Curved Carbon Surface: Mechanisms of Adsorption Revealed by First Calorimetric Study. Journal of Physical Chemistry C, 2015, 119, 2703-2715.	1.5	10
22	New insights into the ideal adsorbed solution theory. Physical Chemistry Chemical Physics, 2015, 17, 7232-7247.	1.3	25
23	Intrinsic D₂/H₂ Selectivity of NaX Zeolite: Interplay between Adsorption and Kinetic Factors. Journal of Physical Chemistry C, 2015, 119, 15373-15380.	1.5	16
24	Effects of Critical Fluctuations on Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2015, 119, 6111-6120.	1.5	8
25	Nuclear Quantum Effects in the Layering and Diffusion of Hydrogen Isotopes in Carbon Nanotubes. Journal of Physical Chemistry Letters, 2015, 6, 3367-3372.	2.1	15
26	Properties of Phenol Confined in Realistic Carbon Micropore Model: Experiment and Simulation. Journal of Physical Chemistry C, 2015, 119, 19987-19995.	1.5	14
27	Folding of graphene slit like pore wallsâ€"a simple method of improving CO₂separation from mixtures with CH₄or N₂. Journal of Physics Condensed Matter, 2014, 26, 485006.	0.7	7
28	Synthesis of carbon nanotubes and nanotube forests on copper catalyst. Materials Research Express, 2014, 1, 035040.	0.8	11
29	MD simulation of organics adsorption from aqueous solution in carbon slit-like pores. Foundations of the pore blocking effect. Journal of Physics Condensed Matter, 2014, 26, 055008.	0.7	10
30	Toward in silico modeling of palladiumâ€"hydrogenâ€"carbon nanohorn nanocomposites. Physical Chemistry Chemical Physics, 2014, 16, 11763-11769.	1.3	5
31	Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints. Journal of Physical Chemistry C, 2014, 118, 12996-13007.	1.5	21
32	Surface to volume ratio of carbon nanohorn â€" A crucial factor in CO2/CH4 mixture separation. Chemical Physics Letters, 2014, 595-596, 67-72.	1.2	7
33	Carbon nanotubes as potential material for drug deliveryâ€"experiment and simulation. Adsorption, 2013, 19, 269-272.	1.4	5
34	Synergetic effect of carbon nanopore size and surface oxidation on CO2 capture from CO2/CH4 mixtures. Journal of Colloid and Interface Science, 2013, 397, 144-153.	5.0	42
35	Porosity of closed carbon nanotubes compressed using hydraulic pressure. Adsorption, 2013, 19, 785-793.	1.4	4
36	Carbon materials as new nanovehicles in hot-melt drug deposition. Journal of Physics Condensed Matter, 2013, 25, 355002.	0.7	9

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37	To the pore and through the pore: thermodynamics and kinetics of helium in exotic cubic carbon polymorphs. Physical Chemistry Chemical Physics, 2013, 15, 17366.	1.3	6
38	The first atomistic modelling-aided reproduction of morphologically defective single walled carbon nanohorns. Physical Chemistry Chemical Physics, 2013, 15, 1232-1240.	1.3	10
39	Influence of activated carbon surface oxygen functionalities on SO2 physisorption â€“ Simulation and experiment. Chemical Physics Letters, 2013, 578, 85-91.	1.2	32
40	Screening of carbonaceous nanoporous materials for capture of nerve agents. Physical Chemistry Chemical Physics, 2013, 15, 291-298.	1.3	25
41	Constant Pressure Path Integral Gibbs Ensemble Monte Carlo Method. Journal of Chemical Theory and Computation, 2013, 9, 2922-2929.	2.3	11
42	Detecting adsorption space in carbon nanotubes by benzene uptake. Journal of Colloid and Interface Science, 2013, 391, 74-85.	5.0	13
43	Applicability of molecular simulations for modelling the adsorption of the greenhouse gas CF4on carbons. Journal of Physics Condensed Matter, 2013, 25, 015004.	0.7	10
44	Separation of CO2â€“CH4 mixtures on defective single walled carbon nanohorns â€“ tip does matter. Physical Chemistry Chemical Physics, 2013, 15, 16468.	1.3	15
45	Simulation of SF6 adsorption on the bundles of single walled carbon nanotubes. Microporous and Mesoporous Materials, 2012, 154, 51-55.	2.2	15
46	Cryogenic Noble Gas Separation without Distillation: The Effect of Carbon Surface Curvature on Adsorptive Separation. Journal of Physical Chemistry C, 2012, 116, 19363-19371.	1.5	6
47	Methane-Induced Deformation of Porous Carbons: From Normal to High-Pressure Operating Conditions. Journal of Physical Chemistry C, 2012, 116, 1740-1747.	1.5	24
48	Virtual Porous Carbons. , 2012, , 61-104.		10
49	Displacement of Methane by Coadsorbed Carbon Dioxide Is Facilitated In Narrow Carbon Nanopores. Journal of Physical Chemistry C, 2012, 116, 13640-13649.	1.5	48
50	Structural properties of amorphous diamond-like carbon: percolation, cluster, and pair correlation analysis. RSC Advances, 2012, 2, 4292.	1.7	18
51	Enhanced adsorption of paracetamol on closed carbon nanotubes by formation of nanoaggregates: Carbon nanotubes as potential materials in hot-melt drug deposition-experiment and simulation. Journal of Colloid and Interface Science, 2012, 376, 209-216.	5.0	19
52	Removal of internal caps during hydrothermal treatment of bamboo-like carbon nanotubes and application of tubes in phenol adsorption. Journal of Colloid and Interface Science, 2012, 381, 36-42.	5.0	30
53	Material Storage Mechanism in Porous Nanocarbon â€“ Comparison between Experiment and Simulation. Computational Methods in Science and Technology, 2012, 18, 45-51.	0.3	1
54	Quantum fluctuations increase the self-diffusive motion of para-hydrogen in narrow carbon nanotubes. Physical Chemistry Chemical Physics, 2011, 13, 9824.	1.3	4

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55	Optimization of Coarse-Grained Interaction Potential: Inside Inherent Limitations of Coarse-Graining Methods. Journal of Physical Chemistry B, 2011, 115, 6985-6994.	1.2	7
56	Equilibrium clusters in concentrated lysozyme protein solutions. Journal of Colloid and Interface Science, 2011, 363, 579-584.	5.0	31
57	First Molecular Dynamics simulation insight into the mechanism of organics adsorption from aqueous solutions on microporous carbons. Chemical Physics Letters, 2011, 515, 102-108.	1.2	22
58	Cryogenic Helium Adsorbed in Zeolite Rho: Inside Localization Controlled Self-Diffusion of Confined Quantum Particles. Journal of Physical Chemistry C, 2011, 115, 18105-18110.	1.5	3
59	Molecular dynamics of zigzag single walled carbon nanotube immersion in water. Physical Chemistry Chemical Physics, 2011, 13, 5621.	1.3	10
60	Simulating the effect of carbon nanotube curvature on adsorption of polycyclic aromatic hydrocarbons. Adsorption, 2011, 17, 1-4.	1.4	22
61	Simulating the changes in carbon structure during the burn-off process. Journal of Colloid and Interface Science, 2011, 360, 211-219.	5.0	17
62	Phenol adsorption on closed carbon nanotubes. Journal of Colloid and Interface Science, 2011, 361, 288-292.	5.0	23
63	The influence of the carbon surface chemical composition on Dubininâ€“Astakhov equation parameters calculated from SF6adsorption dataâ€”grand canonical Monte Carlo simulation. Journal of Physics Condensed Matter, 2011, 23, 395005.	0.7	5
64	Some Remarks on the Classification of Water Vapor Sorption Isotherms and Blahovec and Yanniotis Isotherm Equation. Drying Technology, 2011, 29, 984-991.	1.7	18
65	Simple model of adsorption on external surface of carbon nanotubesâ€”aÂnew analytical approach basing on molecular simulation data. Adsorption, 2010, 16, 197-213.	1.4	23
66	Monolayer aspects of high-resolution Î±s-plots. Applied Surface Science, 2010, 256, 5285-5291.	3.1	3
67	The system of carbon tetrachloride and closed carbon nanotubes analyzed by a combination of molecular simulations, analytical modeling, and adsorption calorimetry. Journal of Colloid and Interface Science, 2010, 349, 321-330.	5.0	6
68	BET surface area of carbonaceous adsorbentsâ€”Verification using geometric considerations and GCMC simulations on virtual porous carbon models. Applied Surface Science, 2010, 256, 5204-5209.	3.1	23
69	Studies of the reactivity of carbon nanotubes towards selected alkali cations and chlorides based on the HSAB theory. Catalysis Today, 2010, 150, 147-150.	2.2	5
70	Surface area of closed carbon nanotubes determined from room temperature measurements of alcohols adsorption. Chemical Physics Letters, 2010, 499, 141-145.	1.2	5
71	The influence of carbon surface oxygen groups on Dubininâ€“Astakhov equation parameters calculated from CO₂adsorption isotherm. Journal of Physics Condensed Matter, 2010, 22, 085003.	0.7	24
72	Microscopic model of carbonaceous nanoporous molecular sievesâ€”anomalous transport in molecularly confined spaces. Physical Chemistry Chemical Physics, 2010, 12, 11351.	1.3	17

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73	Carbon Dioxide Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2010, 114, 5126-5133.	1.5	61
74	Nanoporous Quantum Filters: Inside Vaporâ˜Liquid Transitions of Quantum Fluids in Nanopores. Journal of Physical Chemistry B, 2010, 114, 5047-5052.	1.2	11
75	Optimal Single-Walled Carbon Nanotube Vessels for Short-Term Reversible Storage of Carbon Dioxide at Ambient Temperatures. Journal of Physical Chemistry C, 2010, 114, 21465-21473.	1.5	26
76	Activated carbon immersed in waterâ€"the origin of linear correlation between enthalpy of immersion and oxygen content studied by molecular dynamics simulation. Physical Chemistry Chemical Physics, 2010, 12, 10701.	1.3	7
77	Molecular dynamics simulation insight into the mechanism of phenol adsorption at low coverages from aqueous solutions on microporous carbons. Physical Chemistry Chemical Physics, 2010, 12, 812-817.	1.3	35
78	Adsorption potential distributions for carbons having defined pore structureâ€"GCMC simulations of the effect of heterogeneity. Adsorption, 2009, 15, 99-113.	1.4	6
79	The HSAB principle as a means to interpret the reactivity of carbon nanotubes. Applied Surface Science, 2009, 255, 4782-4786.	3.1	11
80	Frequency-Dependent Diffusion Constant of Quantum Fluids from Path Integral Monte Carlo and Tikhonovâ€™s Regularizing Functional. Journal of Chemical Theory and Computation, 2009, 5, 1990-1996.	2.3	5
81	Can carbon surface oxidation shift the pore size distribution curve calculated from Ar, N₂and CO₂adsorption isotherms? Simulation results for a realistic carbon model. Journal of Physics Condensed Matter, 2009, 21, 315005.	0.7	35
82	Ar, CCl4 and C6H6 adsorption outside and inside of the bundles of multi-walled carbon nanotubesâ€"simulation study. Physical Chemistry Chemical Physics, 2009, 11, 4982.	1.3	19
83	Searching the most optimal model of water sorption on foodstuffs in the whole range of relative humidity. Food Research International, 2009, 42, 1203-1214.	2.9	72
84	Impact of the carbon pore size and topology on the equilibrium quantum sieving of hydrogen isotopes at zero coverage and finite pressures. Journal of Physics Condensed Matter, 2009, 21, 144210.	0.7	21
85	Role of Short-Range Directional Interactions in Coarse-Graining of Protic/Aprotic Liquids. Journal of Physical Chemistry B, 2009, 113, 12988-12998.	1.2	10
86	Fullerene-Intercalated Graphene Nano-Containers â€" Mechanism of Argon Adsorption and High-Pressure CH₄and CO₂Storage Capacities. Adsorption Science and Technology, 2009, 27, 281-296.	1.5	35
87	Adsorption from aqueous solutions on opened carbon nanotubesâ€"organic compounds speed up delivery of water from inside. Physical Chemistry Chemical Physics, 2009, 11, 9341.	1.3	20
88	Static and thermodynamic properties of low-density supercritical 4Heâ€"breakdown of the Feynmanâ€“Hibbs approximation. Physical Chemistry Chemical Physics, 2009, 11, 9182.	1.3	13
89	Determination of the space between closed multiwalled carbon nanotubes by GCMC simulation of nitrogen adsorption. Journal of Colloid and Interface Science, 2008, 317, 442-448.	5.0	23
90	Carbon surface chemical composition in para-nitrophenol adsorption determined under real oxic and anoxic conditions. Journal of Colloid and Interface Science, 2008, 320, 40-51.	5.0	12

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91	Water adsorption on carbons â€" Critical review of the most popular analytical approaches. Advances in Colloid and Interface Science, 2008, 137, 82-143.	7.0	109
92	Argon adsorption in channel-like mesoporous carbons at 77K: Grand Canonical Monte Carlo simulations and pore size analysis. Microporous and Mesoporous Materials, 2008, 116, 665-669.	2.2	6
93	Cryogenic Separation of Hydrogen Isotopes in Single-Walled Carbon and Boron-Nitride Nanotubes: Insight into the Mechanism of Equilibrium Quantum Sieving in Quasi-One-Dimensional Pores. Journal of Physical Chemistry B, 2008, 112, 8275-8284.	1.2	42
94	Heterogeneity on high-resolution Î±s plots for carbon nanotubesâ€"GCMC study. Physical Chemistry Chemical Physics, 2008, 10, 4551.	1.3	5
95	Testing isotherm models and recovering empirical relationships for adsorption in microporous carbons using virtual carbon models and grand canonical Monte Carlo simulations. Journal of Physics Condensed Matter, 2008, 20, 385212.	0.7	18
96	One-Step Steam Pyrolysis Preparation and Characterization of Spherical Carbon Adsorbents Obtained from Ion-Exchange Resins. Adsorption Science and Technology, 2008, 26, 407-413.	1.5	1
97	How realistic is the pore size distribution calculated from adsorption isotherms if activated carbon is composed of fullerene-like fragments?. Physical Chemistry Chemical Physics, 2007, 9, 5919.	1.3	70
98	Hyper-parallel tempering Monte Carlo simulations of Ar adsorption in new models of microporous non-graphitizing activated carbon: effect of microporosity. Journal of Physics Condensed Matter, 2007, 19, 406208.	0.7	43
99	Thermodynamics of Hydrogen Adsorption in Slit-like Carbon Nanopores at 77 K. Classical versus Path-Integral Monte Carlo Simulations. Langmuir, 2007, 23, 3666-3672.	1.6	56
100	Impact of the interaction with the positive charge in adsorption of benzene and other organic compounds from aqueous solutions on carbons. Applied Surface Science, 2007, 253, 4006-4009.	3.1	6
101	Applicability of the generalised Dâ€™Arcy and Watt model to description of water sorption on pineapple and other foodstuffs. Journal of Food Engineering, 2007, 79, 718-723.	2.7	50
102	Bimodal pore size distributions for carbons: Experimental results and computational studies. Journal of Colloid and Interface Science, 2007, 310, 205-216.	5.0	24
103	Effective diffusion coefficient determination within cylindrical granules of adsorbents using a direct simulation method. Journal of Colloid and Interface Science, 2007, 313, 449-453.	5.0	6
104	CO2 sorption on substituted carbon materials. Applied Surface Science, 2007, 253, 5726-5731.	3.1	29
105	The general mechanism of water sorption on foodstuffs â€" Importance of the multitemperature fitting of data and the hierarchy of models. Journal of Food Engineering, 2007, 82, 528-535.	2.7	60
106	Thermodynamics of the CMMS Approach and Carbon Surface Chemistry in SO2Adsorption. Langmuir, 2006, 22, 6887-6892.	1.6	13
107	State of Hydrogen in Idealized Carbon Slitlike Nanopores at 77 K. Langmuir, 2006, 22, 1970-1972.	1.6	42
108	Grand Canonical Monte Carlo Simulation Study of Hydrogen Storage in Ordered Mesoporous Carbons at 303 K. Adsorption Science and Technology, 2006, 24, 411-426.	1.5	4

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109	Pearson's Hard-Soft Acid-Base Principle as a Means of Interpreting the Reactivity of Carbon Materials. Adsorption Science and Technology, 2006, 24, 389-402.	1.5	16
110	Thermodynamic properties of benzene adsorbed in activated carbons and multi-walled carbon nanotubes. Chemical Physics Letters, 2006, 421, 409-414.	1.2	59
111	Benzene adsorption on carbonaceous materials: The influence of pore structure on the state of the adsorbate. Applied Surface Science, 2006, 253, 2525-2539.	3.1	11
112	Changes of the porous structure of activated carbons applied in a filter bed pilot operation. Journal of Colloid and Interface Science, 2006, 295, 327-347.	5.0	20
113	Corrected thermodynamic description of adsorption via formalism of the theory of volume filling of micropores. Journal of Colloid and Interface Science, 2006, 298, 66-73.	5.0	7
114	Some remarks on the calculation of the pore size distribution function of activated carbons. Journal of Colloid and Interface Science, 2006, 300, 453-474.	5.0	20
115	Simple models of adsorption in nanotubes. Journal of Colloid and Interface Science, 2006, 295, 310-317.	5.0	20
116	New approach to determination of surface heterogeneity of adsorbents and catalysts from the temperature programmed desorption (TPD) technique: One step beyond the condensation approximation (CA) method. Journal of Colloid and Interface Science, 2005, 291, 334-344.	5.0	16
117	Heterogeneous Doâ€“Do model of water adsorption on carbons. Journal of Colloid and Interface Science, 2005, 290, 1-13.	5.0	42
118	Parameterization of the corrected Dubininâ€“Serpinsky adsorption isotherm equation. Journal of Colloid and Interface Science, 2005, 291, 600-605.	5.0	12
119	Does the Dubininâ€“Serpinsky theory adequately describe water adsorption on adsorbents with high-energy centers?. Journal of Colloid and Interface Science, 2005, 282, 249-260.	5.0	19
120	Improvement of the Derjaguin-Broekhoff-de Boer Theory for the Capillary Condensation/Evaporation of Nitrogen in Spherical Cavities and Its Application for the Pore Size Analysis of Silicas with Ordered Cagelike Mesopores. Langmuir, 2005, 21, 10530-10536.	1.6	16
121	Effect of the Carbon Surface Layer Chemistry on Benzene Adsorption from the Vapor Phase and from Dilute Aqueous Solutions. Langmuir, 2005, 21, 12257-12267.	1.6	23
122	Description of benzene adsorption in slit-like pores. Theoretical foundations of the improved Horvathâ€“Kawazoe method. Carbon, 2004, 42, 851-864.	5.4	13
123	Estimating the pore size distribution of activated carbons from adsorption data of different adsorbates by various methods. Journal of Colloid and Interface Science, 2004, 273, 39-63.	5.0	66
124	The applicability of the numerical algorithm for the evaluation of isosteric heat of adsorption. Carbon, 2004, 42, 53-58.	5.4	8
125	Impact of an adsorbed phase nonideality in the calculation of the filling pressure of carbon slit-like micropores. Carbon, 2004, 42, 573-583.	5.4	14
126	The evaluation of the surface heterogeneity of carbon blacks from the lattice density functional theory. Carbon, 2004, 42, 1813-1823.	5.4	15

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127	Estimation of the pore-size distribution function from the nitrogen adsorption isotherm. Comparison of density functional theory and the method of Do and co-workers. Carbon, 2003, 41, 1113-1125.	5.4	78
128	Developing the solution analogue of the Toth adsorption isotherm equation. Journal of Colloid and Interface Science, 2003, 266, 473-476.	5.0	75
129	The comparative characterization of structural heterogeneity of mesoporous activated carbon fibers (ACFs). Applied Surface Science, 2003, 206, 67-77.	3.1	44
130	Toward Solving the Unstable Linear Fredholm Equation of the First Kind:Â A New Procedure Called the Adsorption Stochastic Algorithm (ASA) and Its Properties. Langmuir, 2003, 19, 4253-4268.	1.6	38
131	Numerical Analysis of the Horvathâ€“Kawazoe Equation â€" The Adsorption of Nitrogen, Argon, Benzene, Carbon Tetrachloride and Sulphur Hexafluoride. Adsorption Science and Technology, 2002, 20, 295-305.	1.5	12
132	The Application of a CONTIN Package for the Evaluation of Micropore Size Distribution Functions. Langmuir, 2002, 18, 5406-5413.	1.6	23
133	The Simple Procedure of the Calculation of Diffusion Coefficient for Adsorption on Spherical and Cylindrical Adsorbent Particlesâ€"Experimental Verification. Journal of Colloid and Interface Science, 2002, 249, 256-261.	5.0	17
134	Homogeneous and Heterogeneous Micropore Structures in Carbonaceous Adsorbentsâ€"Twenty Years Later. Journal of Colloid and Interface Science, 2002, 254, 242-249.	5.0	4
135	Evaluation of the Structural and Energetic Heterogeneity of Microporous Carbons by Means of Novel Numerical Methods and Genetic Algorithms. Journal of Colloid and Interface Science, 2002, 256, 378-395.	5.0	28
136	New relationships between the characteristic energy of adsorption and the average effective diameter of carbon slit-like micropores. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 201, 17-30.	2.3	15
137	Numerical analysis of Horvathâ€“Kawazoe equation. Computers & Chemistry, 2002, 26, 125-130.	1.2	32
138	What kind of pore size distribution is assumed in the Dubininâ€“Astakhov adsorption isotherm equation?. Carbon, 2002, 40, 2879-2886.	5.4	73
139	THE SIMPLE PROCEDURE OF THE CALCULATION OF DIFFUSION COEFFICIENT FOR ADSORPTION ON SPHERICAL AND CYLINDRICAL ADSORBENT PARTICLES. Separation Science and Technology, 2001, 36, 513-525.	1.3	21
140	New relationships between the characteristic energy of adsorption and the average effective diameter of carbon slit-like micropores â€" the dependence on the type of an adsorbate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 177, 57-68.	2.3	19
141	Energetics of water adsorption and immersion on carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 39-55.	2.3	13
142	A Simple Method of the Determination of the Structural Heterogeneity of Microporous Solids. Journal of Colloid and Interface Science, 2001, 236, 387-390.	5.0	0
143	The Characterization of Microporous Activated Carbons Utilizing a Simple Adsorption Genetic Algorithm (SAGA). Journal of Colloid and Interface Science, 2001, 239, 591-594.	5.0	1
144	Toward the Characterization of Microporosity of Carbonaceous Films. Journal of Colloid and Interface Science, 2001, 243, 183-192.	5.0	46

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145	Characterization of Microporous Carbon Materials by Means of a New Gamma-Type Adsorption Isotherm Equation. Journal of Colloid and Interface Science, 2001, 243, 300-305.	5.0	5
146	The Comparative Analysis of the Properties of Two Micropore-Size Distribution Functions: The Pfeiferâ€“Avnir Function and the Gamma-Type One. Journal of Colloid and Interface Science, 2001, 244, 439-443.	5.0	4
147	The new correlation between microporosity of strictly microporous activated carbons and fractal dimension on the basis of the Polanyiâ€“Dubinin theory of adsorption. Carbon, 2001, 39, 267-278.	5.4	41
148	The Normalization of the Micropore-Size Distribution Function in the Polanyiâ€“Dubinin Type of Adsorption Isotherm Equations. Journal of Colloid and Interface Science, 2000, 227, 482-494.	5.0	17
149	Energetics of water adsorption and immersion on carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 148, 271-281.	2.3	16
150	Fractal dimension of microporous carbon on the basis of Polanyiâ€“Dubinin theory of adsorption. Part IV. The comparative analysis of two alternative solutions of the overall adsorption isotherm equation for microporous fractal solids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 152, 293-313.	2.3	39
151	Comments on â€œAn Isotherm Equation for Adsorption on Fractal Surfaces of Heterogeneous Porous Materialsâ€. Langmuir, 1999, 15, 285-288.	1.6	16
152	New relationships between the characteristic energy of nitrogen adsorption (at 77.5 K) and the average effective diameter of carbon slit-like micropores. Carbon, 1998, 36, 1703-1706.	5.4	19
153	Thermodynamics of Adsorption on Microporous Fractal Solids. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1998, 54, 351-361.	1.4	5
154	Fractal dimension of microporous carbon on the basis of the Polanyi-Dubinin theory of adsorption. Part 3: Adsorption and adsorption thermodynamics in the micropores of fractal carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 245-261.	2.3	23
155	Fractal dimension of microporous carbon on the basis of the Polanyi-Dubinin theory of adsorption. Part 2: Dubinin-Astakhov adsorption isotherm equation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 126, 67-73.	2.3	26
156	Some remarks on the link between the adsorption potential distribution and energetic heterogeneity of an adsorbent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 111, 147-149.	2.3	2
157	Fractal dimension of microporous carbon on the basis of Polanyi-Dubinin theory of adsorption. Dubinin-Radushkevich adsorption isotherm equation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 119, 175-181.	2.3	30