Artur Terzyk

List of Publications by Year in descending order

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207	5,719	108046	124990
papers	citations	37 h-index	64 g-index

209	209	209	6177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hedgehog-like structure, PVDF- carbon nanohorn hybrid membranes for improved removal of VOCs from water. Chemical Engineering Journal, 2022, 438, 135574.	6.6	14
2	Biomimetically Inspired Highly Homogeneous Hydrophilization of Graphene with Poly(<scp>l</scp>-DOPA): Toward Electroconductive Coatings from Water-Processable Paints. ACS Sustainable Chemistry and Engineering, 2022, 10, 6596-6608.	3.2	1
3	Are nanohedgehogs thirsty? Toward new superhydrophobic and anti-icing carbon nanohorn-polymer hybrid surfaces. Chemical Engineering Journal, 2022, 446, 137126.	6.6	11
4	MOF materials as therapeutic agents, drug carriers, imaging agents and biosensors in cancer biomedicine: Recent advances and perspectives. Progress in Materials Science, 2021, 117, 100743.	16.0	120
5	Recent Developments in the Electrophoretic Deposition of Carbon Nanomaterials. Engineering Materials, 2021, , 113-137.	0.3	1
6	Nitric-Acid Oxidized Single-Walled Carbon Nanohorns as a Potential Material for Bio-Applicationsâ€"Toxicity and Hemocompatibility Studies. Materials, 2021, 14, 1419.	1.3	7
7	A New Approach to Obtaining Nano-Sized Graphene Oxide for Biomedical Applications. Materials, 2021, 14, 1327.	1.3	5
8	Ultra-long carbon nanotube-paraffin composites of record thermal conductivity and high phase change enthalpy among paraffin-based heat storage materials. Journal of Energy Storage, 2021, 36, 102396.	3.9	52
9	Revisiting Wetting, Freezing, and Evaporation Mechanisms of Water on Copper. ACS Applied Materials & Interfaces, 2021, 13, 37893-37903.	4.0	17
10	Insight into the Mechanisms of Low Coverage Adsorption of N-Alcohols on Single Walled Carbon Nanohorn. Materials, 2021, 14, 4001.	1.3	2
11	Carbon nanohorn improved durable PVDF membranes - The future of membrane distillation and desalination. Desalination, 2021, 511, 115117.	4.0	11
12	Liquid phase adsorption induced nanosizing of graphene oxide. Carbon, 2021, 183, 948-957.	5.4	6
13	Linking the Defective Structure of Boron-Doped Carbon Nano-Onions with Their Catalytic Properties: Experimental and Theoretical Studies. ACS Applied Materials & Interfaces, 2021, 13, 51628-51642.	4.0	5
14	Chasing the Critical Wetting Transition. An Effective Interface Potential Method. Materials, 2021, 14, 7138.	1.3	3
15	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes. RSC Advances, 2020, 10, 38357-38368.	1.7	6
16	Reconstructing the fractal clusters of detonation nanodiamonds from small-angle X-ray scattering. Carbon, 2020, 169, 349-356.	5.4	8
17	Cytotoxic or Not? Disclosing the Toxic Nature of Carbonaceous Nanomaterials through Nanoâ€"Bio Interactions. Materials, 2020, 13, 2060.	1.3	18
18	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

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19	Non-thermal plasma-assisted catalytic CO2 conversion over Zn-TCPP 2D catalyst. Adsorption, 2020, 26, 1165-1171.	1.4	5
20	Electrophoretic deposition of spherical carbon nanoobjectsâ€"A comparison of different biocompatible surfaces. Medical Devices & Sensors, 2020, 3, e10075.	2.7	2
21	Electrophoretic Deposition of Layer-by-Layer Unsheathed Carbon Nanotubesâ€"A Step Towards Steerable Surface Roughness and Wettability. Materials, 2020, 13, 595.	1.3	6
22	What Is the Value of Water Contact Angle on Silicon?. Materials, 2020, 13, 1554.	1.3	27
23	Mechanistic aspects of water adsorption-desorption in porphyrin containing MOFs. Microporous and Mesoporous Materials, 2019, 290, 109649.	2.2	9
24	Testing the self-cleaning properties of a coordination polymer surface. Adsorption, 2019, 25, 33-39.	1.4	1
25	Stability of coordination polymers in water: state of the art and towards a methodology for nonporous materials. Adsorption, 2019, 25, 1-11.	1.4	10
26	New strategy of controlled, stepwise release from novel MBioF and its potential application for drug delivery systems. Adsorption, 2019, 25, 383-391.	1.4	3
27	Correlation between the catalytic and electrocatalytic properties of nitrogen-doped carbon nanoonions and the polarity of the carbon surface: Experimental and theoretical investigations. Carbon, 2019, 151, 120-129.	5.4	11
28	Ullmann Reactions of Carbon Nanotubesâ€"Advantageous and Unexplored Functionalization toward Tunable Surface Chemistry. Nanomaterials, 2019, 9, 1619.	1.9	9
29	Selective carboxylation versus layer-by-layer unsheathing of multi-walled carbon nanotubes: new insights from the reaction with boiling nitrating mixture. RSC Advances, 2019, 9, 37608-37613.	1.7	14
30	Water Nanodroplet on a Hydrocarbon â€œCarpetâ€â€"The Mechanism of Water Contact Angle Stabilization by Airborne Contaminations on Graphene, Au, and PTFE Surfaces. Langmuir, 2019, 35, 420-427.	1.6	17
31	Super-sieving effect in phenol adsorption from aqueous solutions on nanoporous carbon beads. Carbon, 2018, 135, 12-20.	5.4	34
32	Nanoscale Water Contact Angle on Polytetrafluoroethylene Surfaces Characterized by Molecular Dynamicsâ€"Atomic Force Microscopy Imaging. Langmuir, 2018, 34, 4526-4534.	1.6	37
33	Cystine-based MBioF for Maintaining the Antioxidantâ€"Oxidant Balance in Airway Diseases. ACS Medicinal Chemistry Letters, 2018, 9, 1280-1284.	1.3	6
34	Phenol Molecular Sheets Woven by Water Cavities in Hydrophobic Slit Nanospaces. Langmuir, 2018, 34, 15150-15159.	1.6	1
35	Switchable hydrophobicity/hydrophilicity of a HOPG surface - Comment on the paper by Y. Wei and C.Q. Jia, Carbon, 87 (2015) 10-17. Carbon, 2017, 115, 571-573.	5.4	10
36	New forcefield for water nanodroplet on a graphene surface. Chemical Physics Letters, 2017, 674, 98-102.	1.2	21

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37	Controlling enzymatic activity by immobilization on graphene oxide. Die Naturwissenschaften, 2017, 104, 36.	0.6	37
38	Molecular simulation aided nanoporous carbon design for highly efficient low-concentrated formaldehyde capture. Carbon, 2017, 124, 152-160.	5.4	30
39	Water Adsorption Property of Hierarchically Nanoporous Detonation Nanodiamonds. Langmuir, 2017, 33, 11180-11188.	1.6	28
40	Nanoscale Insight into the Mechanism of a Highly Oriented Pyrolytic Graphite Edge Surface Wetting by â€œInterferencingâ€•Water. Langmuir, 2017, 33, 8562-8573.	1.6	4
41	CO2 - Reinforced nanoporous carbon potential energy field during CO2/CH4 mixture adsorption. A comprehensive volumetric, in-situ IR, and thermodynamic insight. Carbon, 2017, 122, 185-193.	5.4	5
42	Morphologically disordered pore model for characterization of micro-mesoporous carbons. Carbon, 2017, 111, 358-370.	5.4	25
43	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
44	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
45	Carbon Nanohorns. , 2016, , 75-114.		1
46	Cubic Carbon Polymorphs. , 2016, , 141-156.		0
47	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
48	Using in-situ adsorption dilatometry for assessment of micropore size distribution in monolithic carbons. Carbon, 2016, 103, 263-272.	5.4	36
49	Dynamics of effusive and diffusive gas separation on pillared graphene. Physical Chemistry Chemical Physics, 2016, 18, 17018-17023.	1.3	14
50	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
51	Phenol adsorption on different nano-sized carbon materials: first comparative study. Adsorption, 2016, 22, 437-444.	1.4	4
52	Water nanodroplet on a graphene surfaceâ€”a new old system. Journal of Physics Condensed Matter, 2016, 28, 495002.	0.7	13
53	The Chemistry of Bioconjugation in Nanoparticles-Based Drug Delivery System. Advances in Condensed Matter Physics, 2015, 2015, 1-27.	0.4	75
54	Conscious Changes of Carbon Nanotubes Cytotoxicity by Manipulation with Selected Nanofactors. Applied Biochemistry and Biotechnology, 2015, 176, 730-741.	1.4	12

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55	New application of carbon nanotubes in haemostatic dressing filled with anticancer substance. Biomedicine and Pharmacotherapy, 2015, 69, 349-354.	2.5	10
56	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
57	New insights into the ideal adsorbed solution theory. Physical Chemistry Chemical Physics, 2015, 17, 7232-7247.	1.3	25
58	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
59	Effects of Critical Fluctuations on Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2015, 119, 6111-6120.	1.5	8
60	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
61	Properties of Phenol Confined in Realistic Carbon Micropore Model: Experiment and Simulation. Journal of Physical Chemistry C, 2015, 119, 19987-19995.	1.5	14
62	New findings on the influence of carbon surface curvature on energetics of benzene adsorption from aqueous solutions. Chemical Physics Letters, 2015, 619, 219-222.	1.2	8
63	Nanovehicles as a novel target strategy for hyperthermic intraperitoneal chemotherapy: a multidisciplinary study of peritoneal carcinomatosis. Oncotarget, 2015, 6, 22776-22798.	0.8	18
64	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
65	Synthesis of carbon nanotubes and nanotube forests on copper catalyst. Materials Research Express, 2014, 1, 035040.	0.8	11
66	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
67	Nanotube-mediated efficiency of cisplatin anticancer therapy. Carbon, 2014, 70, 46-58.	5.4	22
68	Toward in silico modeling of palladiumâ€"hydrogenâ€"carbon nanohorn nanocomposites. Physical Chemistry Chemical Physics, 2014, 16, 11763-11769.	1.3	5
69	Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints. Journal of Physical Chemistry C, 2014, 118, 12996-13007.	1.5	21
70	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
71	Carbon nanotubes as potential material for drug deliveryâ€"experiment and simulation. Adsorption, 2013, 19, 269-272.	1.4	5
72	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

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73	Porosity of closed carbon nanotubes compressed using hydraulic pressure. Adsorption, 2013, 19, 785-793.	1.4	4
74	Carbon materials as new nanovehicles in hot-melt drug deposition. Journal of Physics Condensed Matter, 2013, 25, 355002.	0.7	9
75	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
76	The first atomistic modelling-aided reproduction of morphologically defective single walled carbon nanohorns. Physical Chemistry Chemical Physics, 2013, 15, 1232-1240.	1.3	10
77	Influence of activated carbon surface oxygen functionalities on SO2 physisorption â€“ Simulation and experiment. Chemical Physics Letters, 2013, 578, 85-91.	1.2	32
78	Screening of carbonaceous nanoporous materials for capture of nerve agents. Physical Chemistry Chemical Physics, 2013, 15, 291-298.	1.3	25
79	Constant Pressure Path Integral Gibbs Ensemble Monte Carlo Method. Journal of Chemical Theory and Computation, 2013, 9, 2922-2929.	2.3	11
80	Detecting adsorption space in carbon nanotubes by benzene uptake. Journal of Colloid and Interface Science, 2013, 391, 74-85.	5.0	13
81	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
82	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
83	Simulation of SF6 adsorption on the bundles of single walled carbon nanotubes. Microporous and Mesoporous Materials, 2012, 154, 51-55.	2.2	15
84	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
85	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
86	Virtual Porous Carbons. , 2012, , 61-104.		10
87	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
88	Structural properties of amorphous diamond-like carbon: percolation, cluster, and pair correlation analysis. RSC Advances, 2012, 2, 4292.	1.7	18
89	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
90	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

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91	Quantum fluctuations increase the self-diffusive motion of para-hydrogen in narrow carbon nanotubes. Physical Chemistry Chemical Physics, 2011, 13, 9824.	1.3	4
92	Pillared graphene as a gas separation membrane. Physical Chemistry Chemical Physics, 2011, 13, 17027.	1.3	65
93	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
94	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
95	Molecular dynamics of zigzag single walled carbon nanotube immersion in water. Physical Chemistry Chemical Physics, 2011, 13, 5621.	1.3	10
96	Simulating the effect of carbon nanotube curvature on adsorption of polycyclic aromatic hydrocarbons. Adsorption, 2011, 17, 1-4.	1.4	22
97	New phosphorus-containing spherical carbon adsorbents as promising materials in drug adsorption and release. Journal of Colloid and Interface Science, 2011, 354, 891-894.	5.0	30
98	Simulating the changes in carbon structure during the burn-off process. Journal of Colloid and Interface Science, 2011, 360, 211-219.	5.0	17
99	New model describing adsorption from liquid binary mixtures of nonelectrolytes with limited and unlimited miscibility of components. Journal of Colloid and Interface Science, 2011, 359, 512-519.	5.0	3
100	Phenol adsorption on closed carbon nanotubes. Journal of Colloid and Interface Science, 2011, 361, 288-292.	5.0	23
101	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
102	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
103	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
104	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
105	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
106	Surface area of closed carbon nanotubes determined from room temperature measurements of alcohols adsorption. Chemical Physics Letters, 2010, 499, 141-145.	1.2	5
107	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
108	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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109	Carbon Dioxide Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2010, 114, 5126-5133.	1.5	61
110	Nanoporous Quantum Filters: Inside Vaporâ˜Liquid Transitions of Quantum Fluids in Nanopores. Journal of Physical Chemistry B, 2010, 114, 5047-5052.	1.2	11
111	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
112	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
113	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
114	Adsorption potential distributions for carbons having defined pore structureâ€"GCMC simulations of the effect of heterogeneity. Adsorption, 2009, 15, 99-113.	1.4	6
115	Hydrothermal opening of multiwall carbon nanotube with H2O2 solution. Chemical Physics Letters, 2009, 482, 316-319.	1.2	16
116	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
117	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
118	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
119	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
120	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
121	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
122	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
123	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
124	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
125	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
126	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

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127	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
128	Heterogeneity on high-resolution Î±s plots for carbon nanotubesâ€"GCMC study. Physical Chemistry Chemical Physics, 2008, 10, 4551.	1.3	5
129	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
130	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
131	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
132	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
133	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
134	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
135	The impact of carbon surface chemical composition on the adsorption of phenol determined at the real oxic and anoxic conditions. Applied Surface Science, 2007, 253, 5752-5755.	3.1	23
136	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
137	Bimodal pore size distributions for carbons: Experimental results and computational studies. Journal of Colloid and Interface Science, 2007, 310, 205-216.	5.0	24
138	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
139	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
140	Thermodynamics of the CMMS Approach and Carbon Surface Chemistry in SO2Adsorption. Langmuir, 2006, 22, 6887-6892.	1.6	13
141	State of Hydrogen in Idealized Carbon Slitlike Nanopores at 77 K. Langmuir, 2006, 22, 1970-1972.	1.6	42
142	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
143	Thermodynamic properties of benzene adsorbed in activated carbons and multi-walled carbon nanotubes. Chemical Physics Letters, 2006, 421, 409-414.	1.2	59
144	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

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145	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
146	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
147	Study of the selection mechanism of heavy metal (Pb2+, Cu2+, Ni2+, and Cd2+) adsorption on clinoptilolite. Journal of Colloid and Interface Science, 2006, 304, 21-28.	5.0	510
148	Porous structure of natural and modified clinoptilolites. Journal of Colloid and Interface Science, 2006, 297, 77-85.	5.0	85
149	Simple models of adsorption in nanotubes. Journal of Colloid and Interface Science, 2006, 295, 310-317.	5.0	20
150	Two-dimensional gas and vacancy solution approaches in the thermodynamic description of adsorption equilibrium. Journal of Colloid and Interface Science, 2005, 282, 335-339.	5.0	16
151	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
152	Heterogeneous Doâ€“Do model of water adsorption on carbons. Journal of Colloid and Interface Science, 2005, 290, 1-13.	5.0	42
153	Parameterization of the corrected Dubininâ€“Serpinsky adsorption isotherm equation. Journal of Colloid and Interface Science, 2005, 291, 600-605.	5.0	12
154	Ammonium sorption from aqueous solutions by the natural zeolite Transcarpathian clinoptilolite studied under dynamic conditions. Journal of Colloid and Interface Science, 2005, 284, 408-415.	5.0	121
155	Modeling of the Hysteresis Phenomena in Finite-Sized Slitlike Nanopores. Revision of the Recent Results by Rigorous Numerical Analysis. Langmuir, 2005, 21, 6613-6627.	1.6	11
156	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
157	Grand Canonical Monte Carlo Simulation Study of Methane Adsorption at an Open Graphite Surface and in Slitlike Carbon Pores at 273 K. Langmuir, 2005, 21, 5639-5646.	1.6	83
158	Improvement of the Derjaguinâ^'Broekhoffâ^'de Boer Theory for Capillary Condensation/Evaporation of Nitrogen in Mesoporous Systems and Its Implications for Pore Size Analysis of MCM-41 Silicas and Related Materials. Langmuir, 2005, 21, 1827-1833.	1.6	40
159	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
160	Description of benzene adsorption in slit-like pores. Theoretical foundations of the improved Horvathâ€“Kawazoe method. Carbon, 2004, 42, 851-864.	5.4	13
161	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
162	The effect of carbon surface chemical composition on the adsorption of acetanilide. Journal of Colloid and Interface Science, 2004, 272, 59-75.	5.0	17

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163	Molecular properties and intermolecular forcesâ€"factors balancing the effect of carbon surface chemistry in adsorption of organics from dilute aqueous solutions. Journal of Colloid and Interface Science, 2004, 275, 9-29.	5.0	106
164	The applicability of the numerical algorithm for the evaluation of isosteric heat of adsorption. Carbon, 2004, 42, 53-58.	5.4	8
165	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
166	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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