Artur Terzyk

List of Publications by Year in descending order

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207 papers 5,719 citations

94433 37 h-index 110387 64 g-index

209 all docs 209 docs citations

209 times ranked 5536 citing authors

#	Article	lF	CITATIONS
1	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.	9.4	510
2	The influence of activated carbon surface chemical composition on the adsorption of acetaminophen (paracetamol) in vitro. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 177, 23-45.	4.7	370
3	Further insights into the role of carbon surface functionalities in the mechanism of phenol adsorption. Journal of Colloid and Interface Science, 2003, 268, 301-329.	9.4	247
4	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.	9.4	121
5	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.	32.8	120
6	Water adsorption on carbons â€" Critical review of the most popular analytical approaches. Advances in Colloid and Interface Science, 2008, 137, 82-143.	14.7	109
7	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.	9.4	106
8	Porous structure of natural and modified clinoptilolites. Journal of Colloid and Interface Science, 2006, 297, 77-85.	9.4	85
9	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.	3.5	83
10	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.	10.3	78
11	The influence of activated carbon surface chemical composition on the adsorption of acetaminophen (paracetamol) in vitro. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 163, 135-150.	4.7	77
12	Thermally modified active carbon as a support for catalysts for NH3 synthesis. Carbon, 1996, 34, 403-409.	10.3	76
13	Developing the solution analogue of the Toth adsorption isotherm equation. Journal of Colloid and Interface Science, 2003, 266, 473-476.	9.4	75
14	The Chemistry of Bioconjugation in Nanoparticles-Based Drug Delivery System. Advances in Condensed Matter Physics, 2015, 2015, 1-27.	1.1	75
15	What kind of pore size distribution is assumed in the Dubinin–Astakhov adsorption isotherm equation?. Carbon, 2002, 40, 2879-2886.	10.3	73
16	Searching the most optimal model of water sorption on foodstuffs in the whole range of relative humidity. Food Research International, 2009, 42, 1203-1214.	6.2	72
17	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.	2.8	70
18	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.	9.4	66

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19	Pillared graphene as a gas separation membrane. Physical Chemistry Chemical Physics, 2011, 13, 17027.	2.8	65
20	Carbon Dioxide Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2010, 114, 5126-5133.	3.1	61
21	The general mechanism of water sorption on foodstuffs – Importance of the multitemperature fitting of data and the hierarchy of models. Journal of Food Engineering, 2007, 82, 528-535.	5.2	60
22	Thermodynamic properties of benzene adsorbed in activated carbons and multi-walled carbon nanotubes. Chemical Physics Letters, 2006, 421, 409-414.	2.6	59
23	New correlations between the composition of the surface layer of carbon and its physicochemical properties exposed while paracetamol is adsorbed at different temperatures and pH. Journal of Colloid and Interface Science, 2003, 257, 13-30.	9.4	58
24	Thermodynamics of Hydrogen Adsorption in Slit-like Carbon Nanopores at 77 K. Classical versus Path-Integral Monte Carlo Simulations. Langmuir, 2007, 23, 3666-3672.	3.5	56
25	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.	8.1	52
26	Applicability of the generalised D'Arcy and Watt model to description of water sorption on pineapple and other foodstuffs. Journal of Food Engineering, 2007, 79, 718-723.	5.2	50
27	Catalytic conversion of ethanol on carbon catalysts. Carbon, 1994, 32, 265-271.	10.3	49
28	Displacement of Methane by Coadsorbed Carbon Dioxide Is Facilitated In Narrow Carbon Nanopores. Journal of Physical Chemistry C, 2012, 116, 13640-13649.	3.1	48
29	The comparative characterization of structural heterogeneity of mesoporous activated carbon fibers (ACFs). Applied Surface Science, 2003, 206, 67-77.	6.1	44
30	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.	1.8	43
31	Heterogeneous Do–Do model of water adsorption on carbons. Journal of Colloid and Interface Science, 2005, 290, 1-13.	9.4	42
32	State of Hydrogen in Idealized Carbon Slitlike Nanopores at 77 K. Langmuir, 2006, 22, 1970-1972.	3.5	42
33	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.	2.6	42
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.	9.4	42
35	The new correlation between microporosity of strictly microporous activated carbons and fractal dimension on the basis of the Polanyi–Dubinin theory of adsorption. Carbon, 2001, 39, 267-278.	10.3	41
36	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.	3.5	40

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37	Fractal dimension of microporous carbon on the basis of Polanyi–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.	4.7	39
38	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.	3.5	38
39	Controlling enzymatic activity by immobilization on graphene oxide. Die Naturwissenschaften, 2017, 104, 36.	1.6	37
40	Nanoscale Water Contact Angle on Polytetrafluoroethylene Surfaces Characterized by Molecular Dynamics–Atomic Force Microscopy Imaging. Langmuir, 2018, 34, 4526-4534.	3.5	37
41	Using in-situ adsorption dilatometry for assessment of micropore size distribution in monolithic carbons. Carbon, 2016, 103, 263-272.	10.3	36
42	Can carbon surface oxidation shift the pore size distribution curve calculated from Ar, N ₂ and CO ₂ adsorption isotherms? Simulation results for a realistic carbon model. Journal of Physics Condensed Matter, 2009, 21, 315005.	1.8	35
43	Fullerene-Intercalated Graphene Nano-Containers — Mechanism of Argon Adsorption and High-Pressure CH ₄ and CO ₂ Storage Capacities. Adsorption Science and Technology, 2009, 27, 281-296.	3.2	35
44	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.	2.8	35
45	Super-sieving effect in phenol adsorption from aqueous solutions on nanoporous carbon beads. Carbon, 2018, 135, 12-20.	10.3	34
46	Influence of activated carbon surface oxygen functionalities on SO2 physisorption – Simulation and experiment. Chemical Physics Letters, 2013, 578, 85-91.	2.6	32
47	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.	4.7	30
48	New phosphorus-containing spherical carbon adsorbents as promising materials in drug adsorption and release. Journal of Colloid and Interface Science, 2011, 354, 891-894.	9.4	30
49	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.	9.4	30
50	Molecular simulation aided nanoporous carbon design for highly efficient low-concentrated formaldehyde capture. Carbon, 2017, 124, 152-160.	10.3	30
51	Water Adsorption Property of Hierarchically Nanoporous Detonation Nanodiamonds. Langmuir, 2017, 33, 11180-11188.	3.5	28
52	The Impact of Carbon Surface Composition on the Diffusion and Adsorption of Paracetamol at Different Temperatures and at Neutral pH. Journal of Colloid and Interface Science, 2000, 230, 219-222.	9.4	27
53	What Is the Value of Water Contact Angle on Silicon?. Materials, 2020, 13, 1554.	2.9	27
54	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.	4.7	26

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55	Adsorption Studies of Cu ¹¹ from Aqueous/Acidic Solutions on to Bentonite. Adsorption Science and Technology, 1999, 17, 441-458.	3.2	26
56	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.	3.1	26
57	Screening of carbonaceous nanoporous materials for capture of nerve agents. Physical Chemistry Chemical Physics, 2013, 15, 291-298.	2.8	25
58	New insights into the ideal adsorbed solution theory. Physical Chemistry Chemical Physics, 2015, 17, 7232-7247.	2.8	25
59	Morphologically disordered pore model for characterization of micro-mesoporous carbons. Carbon, 2017, 111, 358-370.	10.3	25
60	Fractal dimension of microporous carbon on the basis of first solution of a laplace transform using an incomplete gamma function. Computers & Chemistry, 1996, 20, 427-430.	1.2	24
61	Bimodal pore size distributions for carbons: Experimental results and computational studies. Journal of Colloid and Interface Science, 2007, 310, 205-216.	9.4	24
62	The influence of carbon surface oxygen groups on Dubinin–Astakhov equation parameters calculated from CO ₂ adsorption isotherm. Journal of Physics Condensed Matter, 2010, 22, 085003.	1.8	24
63	Methane-Induced Deformation of Porous Carbons: From Normal to High-Pressure Operating Conditions. Journal of Physical Chemistry C, 2012, 116, 1740-1747.	3.1	24
64	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.	4.7	23
65	The Application of a CONTIN Package for the Evaluation of Micropore Size Distribution Functions. Langmuir, 2002, 18, 5406-5413.	3.5	23
66	Effect of the Carbon Surface Layer Chemistry on Benzene Adsorption from the Vapor Phase and from Dilute Aqueous Solutions. Langmuir, 2005, 21, 12257-12267.	3.5	23
67	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.	6.1	23
68	Simple model of adsorption on external surface of carbon nanotubes—aÂnew analytical approach basing on molecular simulation data. Adsorption, 2010, 16, 197-213.	3.0	23
69	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.	6.1	23
70	Phenol adsorption on closed carbon nanotubes. Journal of Colloid and Interface Science, 2011, 361, 288-292.	9.4	23
71	First Molecular Dynamics simulation insight into the mechanism of organics adsorption from aqueous solutions on microporous carbons. Chemical Physics Letters, 2011, 515, 102-108.	2.6	22
72	Simulating the effect of carbon nanotube curvature on adsorption of polycyclic aromatic hydrocarbons. Adsorption, 2011, 17, 1-4.	3.0	22

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73	Nanotube-mediated efficiency of cisplatin anticancer therapy. Carbon, 2014, 70, 46-58.	10.3	22
74	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.	2.5	21
75	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.	1.8	21
76	Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints. Journal of Physical Chemistry C, 2014, 118, 12996-13007.	3.1	21
77	New forcefield for water nanodroplet on a graphene surface. Chemical Physics Letters, 2017, 674, 98-102.	2.6	21
78	The structural parameters of microporous solid, including fractal dimension, on the basis of the potential theory of adsorption â€"the general solution. Computers & Chemistry, 1997, 21, 83-87.	1.2	20
79	Some remarks on the calculation of the pore size distribution function of activated carbons. Journal of Colloid and Interface Science, 2006, 300, 453-474.	9.4	20
80	Simple models of adsorption in nanotubes. Journal of Colloid and Interface Science, 2006, 295, 310-317.	9.4	20
81	Adsorption from aqueous solutions on opened carbon nanotubesâ€"organic compounds speed up delivery of water from inside. Physical Chemistry Chemical Physics, 2009, 11, 9341.	2.8	20
82	Adsorption of Biologically Active Compounds from Aqueous Solutions on to Commercial Unmodified Activated Carbons. Adsorption Science and Technology, 2000, 18, 477-508.	3.2	19
83	New relationships between the characteristic energy of adsorption and the average effective diameter of carbon slit-like micropores — the dependence on the type of an adsorbate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 177, 57-68.	4.7	19
84	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.	2.8	19
85	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.	9.4	19
86	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.	10.3	19
87	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.	1.8	18
88	Some Remarks on the Classification of Water Vapor Sorption Isotherms and Blahovec and Yanniotis Isotherm Equation. Drying Technology, 2011, 29, 984-991.	3.1	18
89	Structural properties of amorphous diamond-like carbon: percolation, cluster, and pair correlation analysis. RSC Advances, 2012, 2, 4292.	3.6	18
90	Cytotoxic or Not? Disclosing the Toxic Nature of Carbonaceous Nanomaterials through Nano–Bio Interactions. Materials, 2020, 13, 2060.	2.9	18

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91	Nanovehicles as a novel target strategy for hyperthermic intraperitoneal chemotherapy: a multidisciplinary study of peritoneal carcinomatosis. Oncotarget, 2015, 6, 22776-22798.	1.8	18
92	The Normalization of the Micropore-Size Distribution Function in the Polanyi–Dubinin Type of Adsorption Isotherm Equations. Journal of Colloid and Interface Science, 2000, 227, 482-494.	9.4	17
93	Describing Adsorption of Paracetamol from Aqueous Solution on Carbons While Utilizing the Most Widespread Isotherm Modelsâ€"The Impact of Surface Carbonyl and Basic Groups. Journal of Colloid and Interface Science, 2002, 247, 507-510.	9.4	17
94	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.	9.4	17
95	The effect of carbon surface chemical composition on the adsorption of acetanilide. Journal of Colloid and Interface Science, 2004, 272, 59-75.	9.4	17
96	Microscopic model of carbonaceous nanoporous molecular sievesâ€"anomalous transport in molecularly confined spaces. Physical Chemistry Chemical Physics, 2010, 12, 11351.	2.8	17
97	Simulating the changes in carbon structure during the burn-off process. Journal of Colloid and Interface Science, 2011, 360, 211-219.	9.4	17
98	Water Nanodroplet on a Hydrocarbon "Carpetâ€â€"The Mechanism of Water Contact Angle Stabilization by Airborne Contaminations on Graphene, Au, and PTFE Surfaces. Langmuir, 2019, 35, 420-427.	3.5	17
99	Revisiting Wetting, Freezing, and Evaporation Mechanisms of Water on Copper. ACS Applied Materials & Lamp; Interfaces, 2021, 13, 37893-37903.	8.0	17
100	Energetics of water adsorption and immersion on carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 148, 271-281.	4.7	16
101	Comments on "An Isotherm Equation for Adsorption on Fractal Surfaces of Heterogeneous Porous Materials― Langmuir, 1999, 15, 285-288.	3.5	16
102	Two-dimensional gas and vacancy solution approaches in the thermodynamic description of adsorption equilibrium. Journal of Colloid and Interface Science, 2005, 282, 335-339.	9.4	16
103	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.	9.4	16
104	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.	3.5	16
105	Hydrothermal opening of multiwall carbon nanotube with H2O2 solution. Chemical Physics Letters, 2009, 482, 316-319.	2.6	16
106	Intrinsic D ₂ /H ₂ Selectivity of NaX Zeolite: Interplay between Adsorption and Kinetic Factors. Journal of Physical Chemistry C, 2015, 119, 15373-15380.	3.1	16
107	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.	4.7	15
108	The evaluation of the surface heterogeneity of carbon blacks from the lattice density functional theory. Carbon, 2004, 42, 1813-1823.	10.3	15

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109	Simulation of SF6 adsorption on the bundles of single walled carbon nanotubes. Microporous and Mesoporous Materials, 2012, 154, 51-55.	4.4	15
110	Separation of CO2–CH4 mixtures on defective single walled carbon nanohorns – tip does matter. Physical Chemistry Chemical Physics, 2013, 15, 16468.	2.8	15
111	Nuclear Quantum Effects in the Layering and Diffusion of Hydrogen Isotopes in Carbon Nanotubes. Journal of Physical Chemistry Letters, 2015, 6, 3367-3372.	4.6	15
112	Impact of an adsorbed phase nonideality in the calculation of the filling pressure of carbon slit-like micropores. Carbon, 2004, 42, 573-583.	10.3	14
113	Properties of Phenol Confined in Realistic Carbon Micropore Model: Experiment and Simulation. Journal of Physical Chemistry C, 2015, 119, 19987-19995.	3.1	14
114	Dynamics of effusive and diffusive gas separation on pillared graphene. Physical Chemistry Chemical Physics, 2016, 18, 17018-17023.	2.8	14
115	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.	3.6	14
116	Hedgehog-like structure, PVDF- carbon nanohorn hybrid membranes for improved removal of VOCs from water. Chemical Engineering Journal, 2022, 438, 135574.	12.7	14
117	Energetics of water adsorption and immersion on carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 39-55.	4.7	13
118	Adsorption of Biologically Active Compounds from Aqueous Solutions on to Commercial Unmodified Activated Carbons. Part V. The Mechanism of the Physical and Chemical Adsorption of Phenol. Adsorption Science and Technology, 2003, 21, 539-585.	3.2	13
119	Description of benzene adsorption in slit-like pores. Theoretical foundations of the improved Horvath–Kawazoe method. Carbon, 2004, 42, 851-864.	10.3	13
120	Thermodynamics of the CMMS Approach and Carbon Surface Chemistry in SO2Adsorption. Langmuir, 2006, 22, 6887-6892.	3.5	13
121	Static and thermodynamic properties of low-density supercritical 4Heâ€"breakdown of the Feynmanâ€"Hibbs approximation. Physical Chemistry Chemical Physics, 2009, 11, 9182.	2.8	13
122	Detecting adsorption space in carbon nanotubes by benzene uptake. Journal of Colloid and Interface Science, 2013, 391, 74-85.	9.4	13
123	Water nanodroplet on a graphene surfaceâ€"a new old system. Journal of Physics Condensed Matter, 2016, 28, 495002.	1.8	13
124	Numerical Analysis of the Horvath–Kawazoe Equation — The Adsorption of Nitrogen, Argon, Benzene, Carbon Tetrachloride and Sulphur Hexafluoride. Adsorption Science and Technology, 2002, 20, 295-305.	3.2	12
125	Parameterization of the corrected Dubinin–Serpinsky adsorption isotherm equation. Journal of Colloid and Interface Science, 2005, 291, 600-605.	9.4	12
126	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.	9.4	12

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127	Conscious Changes of Carbon Nanotubes Cytotoxicity by Manipulation with Selected Nanofactors. Applied Biochemistry and Biotechnology, 2015, 176, 730-741.	2.9	12
128	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
129	Modeling of the Hysteresis Phenomena in Finite-Sized Slitlike Nanopores. Revision of the Recent Results by Rigorous Numerical Analysis. Langmuir, 2005, 21, 6613-6627.	3.5	11
130	Benzene adsorption on carbonaceous materials: The influence of pore structure on the state of the adsorbate. Applied Surface Science, 2006, 253, 2525-2539.	6.1	11
131	Nanoporous Quantum Filters: Inside Vaporâ^'Liquid Transitions of Quantum Fluids in Nanopores. Journal of Physical Chemistry B, 2010, 114, 5047-5052.	2.6	11
132	Constant Pressure Path Integral Gibbs Ensemble Monte Carlo Method. Journal of Chemical Theory and Computation, 2013, 9, 2922-2929.	5.3	11
133	Synthesis of carbon nanotubes and nanotube forests on copper catalyst. Materials Research Express, 2014, 1, 035040.	1.6	11
134	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.	10.3	11
135	Carbon nanohorn improved durable PVDF membranes - The future of membrane distillation and desalination. Desalination, 2021, 511, 115117.	8.2	11
136	Are nanohedgehogs thirsty? Toward new superhydrophobic and anti-icing carbon nanohorn-polymer hybrid surfaces. Chemical Engineering Journal, 2022, 446, 137126.	12.7	11
137	Molecular dynamics of zigzag single walled carbon nanotube immersion in water. Physical Chemistry Chemical Physics, 2011, 13, 5621.	2.8	10
138	Virtual Porous Carbons. , 2012, , 61-104.		10
139	The first atomistic modelling-aided reproduction of morphologically defective single walled carbon nanohorns. Physical Chemistry Chemical Physics, 2013, 15, 1232-1240.	2.8	10
140	Applicability of molecular simulations for modelling the adsorption of the greenhouse gas CF4on carbons. Journal of Physics Condensed Matter, 2013, 25, 015004.	1.8	10
141	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.	1.8	10
142	New application of carbon nanotubes in haemostatic dressing filled with anticancer substance. Biomedicine and Pharmacotherapy, 2015, 69, 349-354.	5.6	10
143	Water at Curved Carbon Surface: Mechanisms of Adsorption Revealed by First Calorimetric Study. Journal of Physical Chemistry C, 2015, 119, 2703-2715.	3.1	10
144	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.	10.3	10

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145	Stability of coordination polymers in water: state of the art and towards a methodology for nonporous materials. Adsorption, 2019, 25, 1-11.	3.0	10
146	Adsorption of Biologically Active Compounds from Aqueous Solutions on to Commercial Unmodified Activated Carbons. Part IV. Do the Properties of Amphoteric Carbon Surface Layers Influence the Adsorption of Paracetamol at Acidic pH Levels?. Adsorption Science and Technology, 2003, 21, 93-123.	3.2	9
147	Carbon materials as new nanovehicles in hot-melt drug deposition. Journal of Physics Condensed Matter, 2013, 25, 355002.	1.8	9
148	Mechanistic aspects of water adsorption-desorption in porphyrin containing MOFs. Microporous and Mesoporous Materials, 2019, 290, 109649.	4.4	9
149	Ullmann Reactions of Carbon Nanotubes—Advantageous and Unexplored Functionalization toward Tunable Surface Chemistry. Nanomaterials, 2019, 9, 1619.	4.1	9
150	The applicability of the numerical algorithm for the evaluation of isosteric heat of adsorption. Carbon, 2004, 42, 53-58.	10.3	8
151	Effects of Critical Fluctuations on Adsorption-Induced Deformation of Microporous Carbons. Journal of Physical Chemistry C, 2015, 119, 6111-6120.	3.1	8
152	New findings on the influence of carbon surface curvature on energetics of benzene adsorption from aqueous solutions. Chemical Physics Letters, 2015, 619, 219-222.	2.6	8
153	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.	3.0	8
154	Reconstructing the fractal clusters of detonation nanodiamonds from small-angle X-ray scattering. Carbon, 2020, 169, 349-356.	10.3	8
155	Adsorption of Biologically Active Compounds from Aqueous Solutions on to Commercial Unmodified Activated Carbons. Part VI. The Mechanism of the Physical and Chemical Adsorption of Acetanilide. Adsorption Science and Technology, 2004, 22, 353-376.	3.2	7
156	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.	9.4	7
157	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.	2.8	7
158	Folding of graphene slit like pore walls—a simple method of improving CO ₂ separation from mixtures with CH ₄ or N ₂ . Journal of Physics Condensed Matter, 2014, 26, 485006.	1.8	7
159	Surface to volume ratio of carbon nanohorn – A crucial factor in CO2/CH4 mixture separation. Chemical Physics Letters, 2014, 595-596, 67-72.	2.6	7
160	Nitric-Acid Oxidized Single-Walled Carbon Nanohorns as a Potential Material for Bio-Applications—Toxicity and Hemocompatibility Studies. Materials, 2021, 14, 1419.	2.9	7
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