Jerzy Choma

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Recent advances in mechanochemical synthesis of mesoporous metal oxides. Materials Advances, 2021, 2, 2510-2523.	5.4	21
2	Highly Porous Carbons Synthesized from Tannic Acid via a Combined Mechanochemical Salt-Templating and Mild Activation Strategy. Molecules, 2021, 26, 1826.	3.8	13
3	Advances in Microwave Synthesis of Nanoporous Materials. Advanced Materials, 2021, 33, e2103477.	21.0	84
4	Recent advances in the development and applications of biomass-derived carbons with uniform porosity. Journal of Materials Chemistry A, 2020, 8, 18464-18491.	10.3	68
5	Major advances in the development of ordered mesoporous materials. Chemical Communications, 2020, 56, 7836-7848.	4.1	74
6	Mechanochemical synthesis of highly porous materials. Materials Horizons, 2020, 7, 1457-1473.	12.2	165
7	High benzene adsorption capacity of micro-mesoporous carbon spheres prepared from XAD-4 resin beads with pores protected effectively by silica. Journal of Materials Science, 2019, 54, 13892-13900.	3.7	15
8	Ultrahigh benzene adsorption capacity of graphene-MOF composite fabricated via MOF crystallization in 3D mesoporous graphene. Microporous and Mesoporous Materials, 2019, 279, 387-394.	4.4	52
9	Highly porous carbons obtained by activation of polypyrrole/reduced graphene oxide as effective adsorbents for CO2, H2 and C6H6. Journal of Porous Materials, 2018, 25, 621-627.	2.6	28
10	Gas adsorption properties of hybrid graphene-MOF materials. Journal of Colloid and Interface Science, 2018, 514, 801-813.	9.4	143
11	Effect of graphene oxide on the adsorption properties of ordered mesoporous carbons toward H2, C6H6, CH4 and CO2. Microporous and Mesoporous Materials, 2018, 261, 105-110.	4.4	41
12	Tailoring surface and structural properties of composite materials by coupling Pt-decorated graphene oxide and ZIF-8-derived carbon. Applied Surface Science, 2018, 459, 760-766.	6.1	12
13	Gas adsorption properties of graphene-based materials. Advances in Colloid and Interface Science, 2017, 243, 46-59.	14.7	106
14	Developing microporosity in Kevlar®-derived carbon fibers by CO2 activation for CO2 adsorption. Journal of CO2 Utilization, 2016, 16, 17-22.	6.8	43
15	Equilibrium isotherms and isosteric heat for CO2 adsorption on nanoporous carbons from polymers. Adsorption, 2016, 22, 581-588.	3.0	23
16	Benzene and Methane Adsorption on Ultrahigh Surface Area Carbons Prepared from Sulphonated Styrene Divinylbenzene Resin by KOH Activation. Adsorption Science and Technology, 2015, 33, 587-594.	3.2	27
17	Adsorption Properties of Activated Carbons Prepared from Waste CDs and DVDs. ACS Sustainable Chemistry and Engineering, 2015, 3, 733-742.	6.7	73
18	Microporosity development in phenolic resin-based mesoporous carbons for enhancing CO2 adsorption at ambient conditions. Applied Surface Science, 2014, 289, 592-600.	6.1	28

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19	Development of mesoporosity in carbon spheres obtained by Stöber method. Microporous and Mesoporous Materials, 2014, 185, 197-203.	4.4	18
20	Highly microporous polymer-based carbons for CO2 and H2 adsorption. RSC Advances, 2014, 4, 14795.	3.6	23
21	Saran-Derived Carbons for CO2and Benzene Sorption at Ambient Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 15383-15388.	3.7	15
22	Organic acid-assisted soft-templating synthesis of ordered mesoporous carbons. Adsorption, 2013, 19, 563-569.	3.0	15
23	Synthesis of OMS Materials and Investigation of Their Acceptor–Donor Characteristics. Chromatographia, 2012, 75, 1147-1156.	1.3	1
24	New opportunities in Stöber synthesis: preparation of microporous and mesoporous carbon spheres. Journal of Materials Chemistry, 2012, 22, 12636.	6.7	120
25	Deposition of silver nanoparticles on silica spheres and rods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 411, 74-79.	4.7	17
26	Carbon–gold core–shell structures: formation of shells consisting of gold nanoparticles. Chemical Communications, 2012, 48, 3972.	4.1	26
27	Silica–metal core–shell nanostructures. Advances in Colloid and Interface Science, 2012, 170, 28-47.	14.7	204
28	Synthesis of rod-like silica–gold core-shell structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 393, 37-41.	4.7	13
29	Adsorption Properties of Micro-/Meso-Porous Carbons Obtained by Colloidal Templating and Post-Synthesis KOH Activation. Adsorption Science and Technology, 2011, 29, 457-465.	3.2	2
30	Preparation and properties of silica–gold core–shell particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 373, 167-171.	4.7	50
31	Development of Microporosity in Mesoporous Carbons. Topics in Catalysis, 2010, 53, 283-290.	2.8	16
32	Adsorption and structural properties of soft-templated mesoporous carbons obtained by carbonization at different temperatures and KOH activation. Applied Surface Science, 2010, 256, 5187-5190.	6.1	38
33	Synthesis and adsorption properties of colloid-imprinted mesoporous carbons using poly(vinylidene) Tj ETQq1 1	. 0.784314 3.0	rgBT /Over
34	Synthesis and properties of mesoporous carbons with high loadings of inorganic species. Carbon, 2009, 47, 3034-3040.	10.3	42
35	Mesoporous carbons synthesized by soft-templating method: Determination of pore size distribution from argon and nitrogen adsorption isotherms. Microporous and Mesoporous Materials, 2008, 112, 573-579.	4.4	36
36	KOH activation of mesoporous carbons obtained by soft-templating. Carbon, 2008, 46, 1159-1161.	10.3	168

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37	Colloidal Silica Templating Synthesis of Carbonaceous Monoliths Assuring Formation of Uniform Spherical Mesopores and Incorporation of Inorganic Nanoparticles. Chemistry of Materials, 2008, 20, 1069-1075.	6.7	52
38	Applicability of classical methods of pore size analysis for MCM-41 and SBA-15 silicas. Applied Surface Science, 2007, 253, 5587-5590.	6.1	10
39	Adsorption characterization of surfactant-templated ordered mesoporous silicas synthesized with and without hydrothermal treatment. Applied Surface Science, 2005, 252, 562-569.	6.1	12
40	Benzene Adsorption Isotherms on MCM-41 and their Use for Pore Size Analysis. Adsorption, 2004, 10, 195-203.	3.0	12
41	An improved methodology for adsorption characterization of unmodified and modified silica gels. Journal of Colloid and Interface Science, 2003, 266, 168-174.	9.4	25
42	Assessment of reliability of the Horvath–Kawazoe pore size analysis method using argon adsorption isotherms on ordered mesoporous silicas. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 214, 263-269.	4.7	23
43	Improved Pore-Size Analysis of Carbonaceous Adsorbents. Adsorption Science and Technology, 2002, 20, 307-315.	3.2	34
44	Comparison of adsorption properties of MCM-41 materials obtained using cationic surfactants with octyl chain. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 203, 97-103.	4.7	9
45	Critical appraisal of classical methods for determination of mesopore size distributions of MCM-41 materials. Applied Surface Science, 2002, 196, 216-223.	6.1	77
46	Determination of the Specific Surface Areas of Non-Porous and Macroporous Carbons. Adsorption Science and Technology, 2001, 19, 765-776.	3.2	5
47	A model-independent analysis of nitrogen adsorption isotherms on oxidized active carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 189, 103-111.	4.7	13
48	Thermogravimetric and adsorption studies of oxidized active carbons by using different probe molecules. Thermochimica Acta, 2000, 345, 165-172.	2.7	8
49	Monitoring Changes in Surface and Structural Properties of Porous Carbons Modified by Different Oxidizing Agents. Journal of Colloid and Interface Science, 1999, 214, 438-446.	9.4	66
50	Comparative analysis of simple and advanced sorption methods for assessment of microporosity in activated carbons. Carbon, 1998, 36, 1447-1458.	10.3	96
51	Estimation of the Surface Properties of Unmodifed and Strongly Oxidized Active Carbons on the Basis of Water Vapour Adsorption Isotherms. Adsorption Science and Technology, 1998, 16, 295-302.	3.2	6
52	Influence of the Pore Geometry on the Micropore Size Distribution Function of Active Carbons. Adsorption Science and Technology, 1997, 15, 571-581.	3.2	9
53	Energetic and Structural Heterogeneity of Synthetic Microporous Carbons. Langmuir, 1997, 13, 1026-1030.	3.5	58
54	Critical discussion of simple adsorption methods used to evaluate the micropore size distribution. Adsorption, 1997, 3, 209-219.	3.0	57

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55	Characterization of microporous carbons by using TGA curves measured under controlled conditions. Thermochimica Acta, 1996, 272, 65-73.	2.7	10
56	Relation between adsorption potential distribution and pore volume distribution for microporous carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 118, 203-210.	4.7	53
57	Studies of surface and structural heterogeneities of microporous carbons by high-resolution thermogravimetry. Studies in Surface Science and Catalysis, 1994, 87, 613-622.	1.5	9
58	Correlation between microporosity and fractal dimension of active carbons. Carbon, 1993, 31, 325-331.	10.3	50
59	Studies of the structural heterogeneity of microporous carbons using liquid/solid adsorption isotherms. Langmuir, 1993, 9, 2555-2561.	3.5	30
60	Energetic heterogeneity of oxidized activated carbon fibers. Materials Chemistry and Physics, 1992, 30, 239-243.	4.0	1
61	Evaluation of energetic heterogeneity and microporosity of activated carbon fibers on the basis of gas adsorption isotherms. Langmuir, 1991, 7, 2719-2722.	3.5	43
62	Correlation between adsorption of benzene from dilute aqueous solutions and benzene vapor adsorption on microporous active carbons. Carbon, 1991, 29, 1294-1296.	10.3	12
63	An improved method for evaluating the micropore-size distribution from adsorption isotherm. Chemical Engineering Science, 1991, 46, 3299-3301.	3.8	14
64	Evaluation of structural heterogeneities and surface irregularities of microporous solids. Materials Chemistry and Physics, 1990, 26, 87-97.	4.0	19
65	Correlation between the bet parameters and the parameters that characterize the microporous structures of activated carbons. Materials Chemistry and Physics, 1990, 25, 287-296.	4.0	3
66	Application of the generalized Jaroniec-Choma isotherm equation for describing benzene adsorption on acttvated carbons. Materials Chemistry and Physics, 1990, 25, 323-330.	4.0	5
67	Total specific surface area of heterogeneous microporous activated carbons. Materials Chemistry and Physics, 1990, 24, 315-320.	4.0	0
68	Comparison of the equilibrium adsorption isotherms measured by the dynamic and static methods for hydrocarbons on microporous activated carbons. Carbon, 1990, 28, 737-739.	10.3	2
69	Comparative studies of adsorption of ethane and benzene on microporous activated carbons. Chemical Engineering Science, 1990, 45, 1539-1545.	3.8	4
70	An isotherm equation for solute adsorption from dilute solutions on heterogeneous solids. Carbon, 1990, 28, 734-736.	10.3	1
71	Comparative studies of the overall adsorption isotherm associated with Dubinin-Astakhov equation. Carbon, 1990, 28, 243-246.	10.3	12
72	Use of argon adsorption isotherms for characterizing microporous activated carbons. Fuel, 1990, 69, 516-518.	6.4	8

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73	A comparative method for studying adsorption from binary nonelectrolytic liquid mixtures on microporous solids. Journal of Colloid and Interface Science, 1990, 135, 405-409.	9.4	4
74	Adsorption isotherm equations associated with the gamma micropore-size distribution and their application for characterizing microporous solids. Materials Chemistry and Physics, 1989, 24, 1-12.	4.0	2
75	Benzene adsorption on microporous activated carbons. Carbon, 1989, 27, 485-487.	10.3	3
76	Comparison of adsorption methods for characterizing the microporosity of activated carbons. Carbon, 1989, 27, 77-83.	10.3	73
77	A new description of micropore filling and its application for characterizing microporous solids. Colloids and Surfaces, 1989, 37, 183-196.	0.9	2
78	Extension of the Langmuir equation for describing gas adsorption on heterogeneous microporous solids. Langmuir, 1989, 5, 839-844.	3.5	18
79	Use of a Polynomial Equation for Analyzing Low-Concentration Adsorption Measurements of Ethane on Activated Carbons. Separation Science and Technology, 1989, 24, 1355-1361.	2.5	3
80	Distribution functions characterizing structural heterogeneity of activated carbons. Carbon, 1988, 26, 1-6.	10.3	27
81	Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids. Monatshefte Für Chemie, 1988, 119, 545-552.	1.8	0
82	Solute adsorption from dilute solutions on structurally heterogeneous solids. Journal of Colloid and Interface Science, 1988, 125, 561-566.	9.4	6
83	On the characterization of structural heterogeneity of microporous solids by discrete and continuous micropore distribution functions. Materials Chemistry and Physics, 1988, 19, 267-289.	4.0	20
84	Characterization of activated carbons by ktilizink the nitroken adsorption data. Materials Chemistry and Physics, 1988, 20, 179-189.	4.0	3
85	Characterization of energetic and structural heterogeneities of activated carbons. Langmuir, 1988, 4, 911-917.	3.5	26
86	Characterization of heterogeneity of activated carbons by utilizing the benzene adsorption data. Materials Chemistry and Physics, 1986, 15, 521-536.	4.0	64