Jerzy Choma

List of Publications by Year
in descending order

86 papers	2,925 citations	182225 30 h-index	198040 52 g-index
87 all docs	87 docs citations	87 times ranked	3596 citing authors

#	Article	IF	Citations
1	Recent advances in mechanochemical synthesis of mesoporous metal oxides. Materials Advances, 2021, 2, 2510-2523.	2.6	21
2	Highly Porous Carbons Synthesized from Tannic Acid via a Combined Mechanochemical Salt-Templating and Mild Activation Strategy. Molecules, 2021, 26, 1826.	1.7	13
3	Advances in Microwave Synthesis of Nanoporous Materials. Advanced Materials, 2021, 33, e2103477.	11.1	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.	5.2	68
5	Major advances in the development of ordered mesoporous materials. Chemical Communications, 2020, 56, 7836-7848.	2.2	74
6	Mechanochemical synthesis of highly porous materials. Materials Horizons, 2020, 7, 1457-1473.	6.4	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.	1.7	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.	2.2	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.	1.3	28
10	Gas adsorption properties of hybrid graphene-MOF materials. Journal of Colloid and Interface Science, 2018, 514, 801-813.	5.0	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.	2.2	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.	3.1	12
13	Gas adsorption properties of graphene-based materials. Advances in Colloid and Interface Science, 2017, 243, 46-59.	7.0	106
14	Developing microporosity in KevlarÂ®-derived carbon fibers by CO2 activation for CO2 adsorption. Journal of CO2 Utilization, 2016, 16, 17-22.	3.3	43
15	Equilibrium isotherms and isosteric heat for CO2 adsorption on nanoporous carbons from polymers. Adsorption, 2016, 22, 581-588.	1.4	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.	1.5	27
17	Adsorption Properties of Activated Carbons Prepared from Waste CDs and DVDs. ACS Sustainable Chemistry and Engineering, 2015, 3, 733-742.	3.2	73
18	Microporosity development in phenolic resin-based mesoporous carbons for enhancing CO2 adsorption at ambient conditions. Applied Surface Science, 2014, 289, 592-600.	3.1	28

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19	Development of mesoporosity in carbon spheres obtained by StÃ¶ber method. Microporous and Mesoporous Materials, 2014, 185, 197-203.	2.2	18
20	Highly microporous polymer-based carbons for CO2 and H2 adsorption. RSC Advances, 2014, 4, 14795.	1.7	23
21	Saran-Derived Carbons for CO2and Benzene Sorption at Ambient Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 15383-15388.	1.8	15
22	Organic acid-assisted soft-templating synthesis of ordered mesoporous carbons. Adsorption, 2013, 19, 563-569.	1.4	15
23	Synthesis of OMS Materials and Investigation of Their Acceptorâ€"Donor Characteristics. Chromatographia, 2012, 75, 1147-1156.	0.7	1
24	New opportunities in StÃ¶ber 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.	2.3	17
26	Carbonâ€"gold coreâ€"shell structures: formation of shells consisting of gold nanoparticles. Chemical Communications, 2012, 48, 3972.	2.2	26
27	Silicaâ€"metal coreâ€"shell nanostructures. Advances in Colloid and Interface Science, 2012, 170, 28-47.	7.0	204
28	Synthesis of rod-like silicaâ€"gold core-shell structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 393, 37-41.	2.3	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.	1.5	2
30	Preparation and properties of silicaâ€"gold coreâ€"shell particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 373, 167-171.	2.3	50
31	Development of Microporosity in Mesoporous Carbons. Topics in Catalysis, 2010, 53, 283-290.	1.3	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.	3.1	38
33	Synthesis and adsorption properties of colloid-imprinted mesoporous carbons using poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	6
34	Synthesis and properties of mesoporous carbons with high loadings of inorganic species. Carbon, 2009, 47, 3034-3040.	5.4	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.	2.2	36
36	KOH activation of mesoporous carbons obtained by soft-templating. Carbon, 2008, 46, 1159-1161.	5.4	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.	3.2	52
38	Applicability of classical methods of pore size analysis for MCM-41 and SBA-15 silicas. Applied Surface Science, 2007, 253, 5587-5590.	3.1	10
39	Adsorption characterization of surfactant-templated ordered mesoporous silicas synthesized with and without hydrothermal treatment. Applied Surface Science, 2005, 252, 562-569.	3.1	12
40	Benzene Adsorption Isotherms on MCM-41 and their Use for Pore Size Analysis. Adsorption, 2004, 10, 195-203.	1.4	12
41	An improved methodology for adsorption characterization of unmodified and modified silica gels. Journal of Colloid and Interface Science, 2003, 266, 168-174.	5.0	25
42	Assessment of reliability of the Horvathâ€"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.	2.3	23
43	Improved Pore-Size Analysis of Carbonaceous Adsorbents. Adsorption Science and Technology, 2002, 20, 307-315.	1.5	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.	2.3	9
45	Critical appraisal of classical methods for determination of mesopore size distributions of MCM-41 materials. Applied Surface Science, 2002, 196, 216-223.	3.1	77
46	Determination of the Specific Surface Areas of Non-Porous and Macroporous Carbons. Adsorption Science and Technology, 2001, 19, 765-776.	1.5	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.	2.3	13
48	Thermogravimetric and adsorption studies of oxidized active carbons by using different probe molecules. Thermochimica Acta, 2000, 345, 165-172.	1.2	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.	5.0	66
50	Comparative analysis of simple and advanced sorption methods for assessment of microporosity in activated carbons. Carbon, 1998, 36, 1447-1458.	5.4	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.	1.5	6
52	Influence of the Pore Geometry on the Micropore Size Distribution Function of Active Carbons. Adsorption Science and Technology, 1997, 15, 571-581.	1.5	9
53	Energetic and Structural Heterogeneity of Synthetic Microporous Carbons. Langmuir, 1997, 13, 1026-1030.	1.6	58
54	Critical discussion of simple adsorption methods used to evaluate the micropore size distribution. Adsorption, 1997, 3, 209-219.	1.4	57

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55	Characterization of microporous carbons by using TGA curves measured under controlled conditions. Thermochimica Acta, 1996, 272, 65-73.	1.2	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.	2.3	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.	5.4	50
59	Studies of the structural heterogeneity of microporous carbons using liquid/solid adsorption isotherms. Langmuir, 1993, 9, 2555-2561.	1.6	30
60	Energetic heterogeneity of oxidized activated carbon fibers. Materials Chemistry and Physics, 1992, 30, 239-243.	2.0	1
61	Evaluation of energetic heterogeneity and microporosity of activated carbon fibers on the basis of gas adsorption isotherms. Langmuir, 1991, 7, 2719-2722.	1.6	43
62	Correlation between adsorption of benzene from dilute aqueous solutions and benzene vapor adsorption on microporous active carbons. Carbon, 1991, 29, 1294-1296.	5.4	12
63	An improved method for evaluating the micropore-size distribution from adsorption isotherm. Chemical Engineering Science, 1991, 46, 3299-3301.	1.9	14
64	Evaluation of structural heterogeneities and surface irregularities of microporous solids. Materials Chemistry and Physics, 1990, 26, 87-97.	2.0	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.	2.0	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.	2.0	5
67	Total specific surface area of heterogeneous microporous activated carbons. Materials Chemistry and Physics, 1990, 24, 315-320.	2.0	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.	5.4	2
69	Comparative studies of adsorption of ethane and benzene on microporous activated carbons. Chemical Engineering Science, 1990, 45, 1539-1545.	1.9	4
70	An isotherm equation for solute adsorption from dilute solutions on heterogeneous solids. Carbon, 1990, 28, 734-736.	5.4	1
71	Comparative studies of the overall adsorption isotherm associated with Dubinin-Astakhov equation. Carbon, 1990, 28, 243-246.	5.4	12
72	Use of argon adsorption isotherms for characterizing microporous activated carbons. Fuel, 1990, 69, 516-518.	3.4	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.	5.0	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.	2.0	2
75	Benzene adsorption on microporous activated carbons. Carbon, 1989, 27, 485-487.	5.4	3
76	Comparison of adsorption methods for characterizing the microporosity of activated carbons. Carbon, 1989, 27, 77-83.	5.4	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.	1.6	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.	1.3	3
80	Distribution functions characterizing structural heterogeneity of activated carbons. Carbon, 1988, 26, 1-6.	5.4	27
81	Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids. Monatshefte FÃ¼r Chemie, 1988, 119, 545-552.	0.9	0
82	Solute adsorption from dilute solutions on structurally heterogeneous solids. Journal of Colloid and Interface Science, 1988, 125, 561-566.	5.0	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.	2.0	20
84	Characterization of activated carbons by ktilizink the nitroken adsorption data. Materials Chemistry and Physics, 1988, 20, 179-189.	2.0	3
85	Characterization of energetic and structural heterogeneities of activated carbons. Langmuir, 1988, 4, 911-917.	1.6	26
86	Characterization of heterogeneity of activated carbons by utilizing the benzene adsorption data. Materials Chemistry and Physics, 1986, 15, 521-536.	2.0	64