

# Jerzy Choma

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

2,293

citations

27

h-index

45

g-index

87

ext. papers

2,603

ext. citations

6.1

avg, IF

5.29

L-index

#	Paper	IF	Citations
86	Recent advances in mechanochemical synthesis of mesoporous metal oxides. <i>Materials Advances</i> , <b>2021</b> , 2, 2510-2523	3.3	6
85	Highly Porous Carbons Synthesized from Tannic Acid via a Combined Mechanochemical Salt-Templating and Mild Activation Strategy. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
84	Advances in Microwave Synthesis of Nanoporous Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103477	24	9
83	Major advances in the development of ordered mesoporous materials. <i>Chemical Communications</i> , <b>2020</b> , 56, 7836-7848	5.8	41
82	Mechanochemical synthesis of highly porous materials. <i>Materials Horizons</i> , <b>2020</b> , 7, 1457-1473	14.4	70
81	Recent advances in the development and applications of biomass-derived carbons with uniform porosity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18464-18491	13	27
80	High benzene adsorption capacity of micro-mesoporous carbon spheres prepared from XAD-4 resin beads with pores protected effectively by silica. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 13892-13900	4.3	8
79	Ultrahigh benzene adsorption capacity of graphene-MOF composite fabricated via MOF crystallization in 3D mesoporous graphene. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 279, 387-394	5.3	34
78	Highly porous carbons obtained by activation of polypyrrole/reduced graphene oxide as effective adsorbents for CO <sub>2</sub> , H <sub>2</sub> and C <sub>6</sub> H <sub>6</sub> . <i>Journal of Porous Materials</i> , <b>2018</b> , 25, 621-627	2.4	18
77	Tailoring surface and structural properties of composite materials by coupling Pt-decorated graphene oxide and ZIF-8-derived carbon. <i>Applied Surface Science</i> , <b>2018</b> , 459, 760-766	6.7	9
76	Gas adsorption properties of hybrid graphene-MOF materials. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 801-813	9.3	99
75	Effect of graphene oxide on the adsorption properties of ordered mesoporous carbons toward H <sub>2</sub> , C <sub>6</sub> H <sub>6</sub> , CH <sub>4</sub> and CO <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 261, 105-110	5.3	27
74	Gas adsorption properties of graphene-based materials. <i>Advances in Colloid and Interface Science</i> , <b>2017</b> , 243, 46-59	14.3	75
73	Developing microporosity in Kevlar® -derived carbon fibers by CO <sub>2</sub> activation for CO <sub>2</sub> adsorption. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2016</b> , 16, 17-22	7.6	26
72	Equilibrium isotherms and isosteric heat for CO <sub>2</sub> adsorption on nanoporous carbons from polymers. <i>Adsorption</i> , <b>2016</b> , 22, 581-588	2.6	19
71	Adsorption Properties of Activated Carbons Prepared from Waste CDs and DVDs. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 733-742	8.3	52
70	Benzene and Methane Adsorption on Ultrahigh Surface Area Carbons Prepared from Sulphonated Styrene Divinylbenzene Resin by KOH Activation. <i>Adsorption Science and Technology</i> , <b>2015</b> , 33, 587-594	3.6	21

69	Microporosity development in phenolic resin-based mesoporous carbons for enhancing CO <sub>2</sub> adsorption at ambient conditions. <i>Applied Surface Science</i> , <b>2014</b> , 289, 592-600	6.7	27
68	Development of mesoporosity in carbon spheres obtained by Stober method. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 185, 197-203	5.3	17
67	Highly microporous polymer-based carbons for CO <sub>2</sub> and H <sub>2</sub> adsorption. <i>RSC Advances</i> , <b>2014</b> , 4, 14795	3.7	22
66	Saran-Derived Carbons for CO <sub>2</sub> and Benzene Sorption at Ambient Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 15383-15388	3.9	12
65	Organic acid-assisted soft-templating synthesis of ordered mesoporous carbons. <i>Adsorption</i> , <b>2013</b> , 19, 563-569	2.6	13
64	Synthesis of OMS Materials and Investigation of Their Acceptor-Donor Characteristics. <i>Chromatographia</i> , <b>2012</b> , 75, 1147-1156	2.1	1
63	New opportunities in Stober synthesis: preparation of microporous and mesoporous carbon spheres. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12636		102
62	Deposition of silver nanoparticles on silica spheres and rods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 411, 74-79	5.1	15
61	Carbon-gold core-shell structures: formation of shells consisting of gold nanoparticles. <i>Chemical Communications</i> , <b>2012</b> , 48, 3972-4	5.8	23
60	Silica-metal core-shell nanostructures. <i>Advances in Colloid and Interface Science</i> , <b>2012</b> , 170, 28-47	14.3	181
59	Synthesis of rod-like silica-gold core-shell structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 393, 37-41	5.1	11
58	Adsorption Properties of Micro-/Meso-Porous Carbons Obtained by Colloidal Templating and Post-Synthesis KOH Activation. <i>Adsorption Science and Technology</i> , <b>2011</b> , 29, 457-465	3.6	2
57	Preparation and properties of silica-gold core-shell particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 373, 167-171	5.1	44
56	Development of Microporosity in Mesoporous Carbons. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 283-290	2.3	16
55	Adsorption and structural properties of soft-templated mesoporous carbons obtained by carbonization at different temperatures and KOH activation. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5187-5190	6.7	36
54	Synthesis and adsorption properties of colloid-imprinted mesoporous carbons using poly(vinylidene chloride-co-vinyl chloride) as a carbon precursor. <i>Adsorption</i> , <b>2009</b> , 15, 167-171	2.6	5
53	Synthesis and properties of mesoporous carbons with high loadings of inorganic species. <i>Carbon</i> , <b>2009</b> , 47, 3034-3040	10.4	40
52	Colloidal Silica Templating Synthesis of Carbonaceous Monoliths Assuring Formation of Uniform Spherical Mesopores and Incorporation of Inorganic Nanoparticles. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1069-1075	9.6	49

51	Mesoporous carbons synthesized by soft-templating method: Determination of pore size distribution from argon and nitrogen adsorption isotherms. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 112, 573-579	5.3	33
50	KOH activation of mesoporous carbons obtained by soft-templating. <i>Carbon</i> , <b>2008</b> , 46, 1159-1161	10.4	152
49	Applicability of classical methods of pore size analysis for MCM-41 and SBA-15 silicas. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5587-5590	6.7	10
48	Adsorption characterization of surfactant-templated ordered mesoporous silicas synthesized with and without hydrothermal treatment. <i>Applied Surface Science</i> , <b>2005</b> , 252, 562-569	6.7	12
47	Benzene Adsorption Isotherms on MCM-41 and their Use for Pore Size Analysis. <i>Adsorption</i> , <b>2004</b> , 10, 195-203	2.6	12
46	An improved methodology for adsorption characterization of unmodified and modified silica gels. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 266, 168-74	9.3	15
45	Assessment of reliability of the Horvath&awazoe pore size analysis method using argon adsorption isotherms on ordered mesoporous silicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2003</b> , 214, 263-269	5.1	21
44	Comparison of adsorption properties of MCM-41 materials obtained using cationic surfactants with octyl chain. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2002</b> , 203, 97-103	5.1	9
43	Critical appraisal of classical methods for determination of mesopore size distributions of MCM-41 materials. <i>Applied Surface Science</i> , <b>2002</b> , 196, 216-223	6.7	68
42	Improved Pore-Size Analysis of Carbonaceous Adsorbents. <i>Adsorption Science and Technology</i> , <b>2002</b> , 20, 307-315	3.6	32
41	A model-independent analysis of nitrogen adsorption isotherms on oxidized active carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2001</b> , 189, 103-111	5.1	10
40	Determination of the Specific Surface Areas of Non-Porous and Macroporous Carbons. <i>Adsorption Science and Technology</i> , <b>2001</b> , 19, 765-776	3.6	5
39	Thermogravimetric and adsorption studies of oxidized active carbons by using different probe molecules. <i>Thermochimica Acta</i> , <b>2000</b> , 345, 165-172	2.9	8
38	Monitoring Changes in Surface and Structural Properties of Porous Carbons Modified by Different Oxidizing Agents. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 214, 438-446	9.3	58
37	Comparative analysis of simple and advanced sorption methods for assessment of microporosity in activated carbons. <i>Carbon</i> , <b>1998</b> , 36, 1447-1458	10.4	93
36	Estimation of the Surface Properties of Unmodified and Strongly Oxidized Active Carbons on the Basis of Water Vapour Adsorption Isotherms. <i>Adsorption Science and Technology</i> , <b>1998</b> , 16, 295-302	3.6	6
35	Influence of the Pore Geometry on the Micropore Size Distribution Function of Active Carbons. <i>Adsorption Science and Technology</i> , <b>1997</b> , 15, 571-581	3.6	9
34	Energetic and Structural Heterogeneity of Synthetic Microporous Carbons. <i>Langmuir</i> , <b>1997</b> , 13, 1026-1030		56

33	Critical discussion of simple adsorption methods used to evaluate the micropore size distribution. <i>Adsorption</i> , <b>1997</b> , 3, 209-219	2.6	50
32	Characterization of microporous carbons by using TGA curves measured under controlled conditions. <i>Thermochimica Acta</i> , <b>1996</b> , 272, 65-73	2.9	9
31	Relation between adsorption potential distribution and pore volume distribution for microporous carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1996</b> , 118, 203-210	5.1	45
30	Studies of surface and structural heterogeneities of microporous carbons by high-resolution thermogravimetry. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 87, 613-622	1.8	8
29	Studies of the structural heterogeneity of microporous carbons using liquid/solid adsorption isotherms. <i>Langmuir</i> , <b>1993</b> , 9, 2555-2561	4	28
28	Correlation between microporosity and fractal dimension of active carbons. <i>Carbon</i> , <b>1993</b> , 31, 325-331	10.4	37
27	Energetic heterogeneity of oxidized activated carbon fibers. <i>Materials Chemistry and Physics</i> , <b>1992</b> , 30, 239-243	4.4	1
26	Correlation between adsorption of benzene from dilute aqueous solutions and benzene vapor adsorption on microporous active carbons. <i>Carbon</i> , <b>1991</b> , 29, 1294-1296	10.4	11
25	An improved method for evaluating the micropore-size distribution from adsorption isotherm. <i>Chemical Engineering Science</i> , <b>1991</b> , 46, 3299-3301	4.4	12
24	Evaluation of energetic heterogeneity and microporosity of activated carbon fibers on the basis of gas adsorption isotherms. <i>Langmuir</i> , <b>1991</b> , 7, 2719-2722	4	41
23	Evaluation of structural heterogeneities and surface irregularities of microporous solids. <i>Materials Chemistry and Physics</i> , <b>1990</b> , 26, 87-97	4.4	16
22	Correlation between the bet parameters and the parameters that characterize the microporous structures of activated carbons. <i>Materials Chemistry and Physics</i> , <b>1990</b> , 25, 287-296	4.4	3
21	Application of the generalized Jaroniec-Choma isotherm equation for describing benzene adsorption on activated carbons. <i>Materials Chemistry and Physics</i> , <b>1990</b> , 25, 323-330	4.4	5
20	Total specific surface area of heterogeneous microporous activated carbons. <i>Materials Chemistry and Physics</i> , <b>1990</b> , 24, 315-320	4.4	
19	Comparison of the equilibrium adsorption isotherms measured by the dynamic and static methods for hydrocarbons on microporous activated carbons. <i>Carbon</i> , <b>1990</b> , 28, 737-739	10.4	2
18	Comparative studies of adsorption of ethane and benzene on microporous activated carbons. <i>Chemical Engineering Science</i> , <b>1990</b> , 45, 1539-1545	4.4	4
17	An isotherm equation for solute adsorption from dilute solutions on heterogeneous solids. <i>Carbon</i> , <b>1990</b> , 28, 734-736	10.4	1
16	Comparative studies of the overall adsorption isotherm associated with Dubinin-Astakhov equation. <i>Carbon</i> , <b>1990</b> , 28, 243-246	10.4	12

15	Use of argon adsorption isotherms for characterizing microporous activated carbons. <i>Fuel</i> , <b>1990</b> , 69, 516-518	7.1	7
14	A comparative method for studying adsorption from binary nonelectrolytic liquid mixtures on microporous solids. <i>Journal of Colloid and Interface Science</i> , <b>1990</b> , 135, 405-409	9.3	3
13	Adsorption isotherm equations associated with the gamma micropore-size distribution and their application for characterizing microporous solids. <i>Materials Chemistry and Physics</i> , <b>1989</b> , 24, 1-12	4.4	2
12	Benzene adsorption on microporous activated carbons. <i>Carbon</i> , <b>1989</b> , 27, 485-487	10.4	3
11	Comparison of adsorption methods for characterizing the microporosity of activated carbons. <i>Carbon</i> , <b>1989</b> , 27, 77-83	10.4	66
10	A new description of micropore filling and its application for characterizing microporous solids. <i>Colloids and Surfaces</i> , <b>1989</b> , 37, 183-196		2
9	Extension of the Langmuir equation for describing gas adsorption on heterogeneous microporous solids. <i>Langmuir</i> , <b>1989</b> , 5, 839-844	4	16
8	Use of a Polynomial Equation for Analyzing Low-Concentration Adsorption Measurements of Ethane on Activated Carbons. <i>Separation Science and Technology</i> , <b>1989</b> , 24, 1355-1361	2.5	2
7	Distribution functions characterizing structural heterogeneity of activated carbons. <i>Carbon</i> , <b>1988</b> , 26, 1-6	10.4	25
6	Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids. <i>Monatshefte Für Chemie</i> , <b>1988</b> , 119, 545-552	1.4	
5	Solute adsorption from dilute solutions on structurally heterogeneous solids. <i>Journal of Colloid and Interface Science</i> , <b>1988</b> , 125, 561-566	9.3	5
4	On the characterization of structural heterogeneity of microporous solids by discrete and continuous micropore distribution functions. <i>Materials Chemistry and Physics</i> , <b>1988</b> , 19, 267-289	4.4	19
3	Characterization of activated carbons by utilizing the nitrogen adsorption data. <i>Materials Chemistry and Physics</i> , <b>1988</b> , 20, 179-189	4.4	3
2	Characterization of energetic and structural heterogeneities of activated carbons. <i>Langmuir</i> , <b>1988</b> , 4, 911-917	4	25
1	Characterization of heterogeneity of activated carbons by utilizing the benzene adsorption data. <i>Materials Chemistry and Physics</i> , <b>1986</b> , 15, 521-536	4.4	62