

Jerzy Choma

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7459816/jerzy-choma-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Silica-metal core-shell nanostructures. <i>Advances in Colloid and Interface Science</i> , 2012 , 170, 28-47	14.3	181
85	KOH activation of mesoporous carbons obtained by soft-templating. <i>Carbon</i> , 2008 , 46, 1159-1161	10.4	152
84	New opportunities in Stober synthesis: preparation of microporous and mesoporous carbon spheres. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12636		102
83	Gas adsorption properties of hybrid graphene-MOF materials. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 801-813	9.3	99
82	Comparative analysis of simple and advanced sorption methods for assessment of microporosity in activated carbons. <i>Carbon</i> , 1998 , 36, 1447-1458	10.4	93
81	Gas adsorption properties of graphene-based materials. <i>Advances in Colloid and Interface Science</i> , 2017 , 243, 46-59	14.3	75
80	Mechanochemical synthesis of highly porous materials. <i>Materials Horizons</i> , 2020 , 7, 1457-1473	14.4	70
79	Critical appraisal of classical methods for determination of mesopore size distributions of MCM-41 materials. <i>Applied Surface Science</i> , 2002 , 196, 216-223	6.7	68
78	Comparison of adsorption methods for characterizing the microporosity of activated carbons. <i>Carbon</i> , 1989 , 27, 77-83	10.4	66
77	Characterization of heterogeneity of activated carbons by utilizing the benzene adsorption data. <i>Materials Chemistry and Physics</i> , 1986 , 15, 521-536	4.4	62
76	Monitoring Changes in Surface and Structural Properties of Porous Carbons Modified by Different Oxidizing Agents. <i>Journal of Colloid and Interface Science</i> , 1999 , 214, 438-446	9.3	58
75	Energetic and Structural Heterogeneity of Synthetic Microporous Carbons. <i>Langmuir</i> , 1997 , 13, 1026-1030		56
74	Adsorption Properties of Activated Carbons Prepared from Waste CDs and DVDs. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 733-742	8.3	52
73	Critical discussion of simple adsorption methods used to evaluate the micropore size distribution. <i>Adsorption</i> , 1997 , 3, 209-219	2.6	50
72	Colloidal Silica Templating Synthesis of Carbonaceous Monoliths Assuring Formation of Uniform Spherical Mesopores and Incorporation of Inorganic Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 1069-1075	9.6	49
71	Relation between adsorption potential distribution and pore volume distribution for microporous carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 118, 203-210	5.1	45
70	Preparation and properties of silica-gold core-shell particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 373, 167-171	5.1	44

69	Major advances in the development of ordered mesoporous materials. <i>Chemical Communications</i> , 2020 , 56, 7836-7848	5.8	41
68	Evaluation of energetic heterogeneity and microporosity of activated carbon fibers on the basis of gas adsorption isotherms. <i>Langmuir</i> , 1991 , 7, 2719-2722	4	41
67	Synthesis and properties of mesoporous carbons with high loadings of inorganic species. <i>Carbon</i> , 2009 , 47, 3034-3040	10.4	40
66	Correlation between microporosity and fractal dimension of active carbons. <i>Carbon</i> , 1993 , 31, 325-331	10.4	37
65	Adsorption and structural properties of soft-templated mesoporous carbons obtained by carbonization at different temperatures and KOH activation. <i>Applied Surface Science</i> , 2010 , 256, 5187-5190	6.7	36
64	Ultrahigh benzene adsorption capacity of graphene-MOF composite fabricated via MOF crystallization in 3D mesoporous graphene. <i>Microporous and Mesoporous Materials</i> , 2019 , 279, 387-394	5.3	34
63	Mesoporous carbons synthesized by soft-templating method: Determination of pore size distribution from argon and nitrogen adsorption isotherms. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 573-579	5.3	33
62	Improved Pore-Size Analysis of Carbonaceous Adsorbents. <i>Adsorption Science and Technology</i> , 2002 , 20, 307-315	3.6	32
61	Studies of the structural heterogeneity of microporous carbons using liquid/solid adsorption isotherms. <i>Langmuir</i> , 1993 , 9, 2555-2561	4	28
60	Microporosity development in phenolic resin-based mesoporous carbons for enhancing CO ₂ adsorption at ambient conditions. <i>Applied Surface Science</i> , 2014 , 289, 592-600	6.7	27
59	Recent advances in the development and applications of biomass-derived carbons with uniform porosity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18464-18491	13	27
58	Effect of graphene oxide on the adsorption properties of ordered mesoporous carbons toward H ₂ , C ₆ H ₆ , CH ₄ and CO ₂ . <i>Microporous and Mesoporous Materials</i> , 2018 , 261, 105-110	5.3	27
57	Developing microporosity in Kevlar® -derived carbon fibers by CO ₂ activation for CO ₂ adsorption. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 17-22	7.6	26
56	Distribution functions characterizing structural heterogeneity of activated carbons. <i>Carbon</i> , 1988 , 26, 1-6	10.4	25
55	Characterization of energetic and structural heterogeneities of activated carbons. <i>Langmuir</i> , 1988 , 4, 911-917	4	25
54	Carbon-gold core-shell structures: formation of shells consisting of gold nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 3972-4	5.8	23
53	Highly microporous polymer-based carbons for CO ₂ and H ₂ adsorption. <i>RSC Advances</i> , 2014 , 4, 14795	3.7	22
52	Benzene and Methane Adsorption on Ultrahigh Surface Area Carbons Prepared from Sulphonated Styrene Divinylbenzene Resin by KOH Activation. <i>Adsorption Science and Technology</i> , 2015 , 33, 587-594	3.6	21

51	Assessment of reliability of the Horvath-Kawazoe pore size analysis method using argon adsorption isotherms on ordered mesoporous silicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 214, 263-269	5.1	21
50	Equilibrium isotherms and isosteric heat for CO ₂ adsorption on nanoporous carbons from polymers. <i>Adsorption</i> , 2016 , 22, 581-588	2.6	19
49	On the characterization of structural heterogeneity of microporous solids by discrete and continuous micropore distribution functions. <i>Materials Chemistry and Physics</i> , 1988 , 19, 267-289	4.4	19
48	Highly porous carbons obtained by activation of polypyrrole/reduced graphene oxide as effective adsorbents for CO ₂ , H ₂ and C ₆ H ₆ . <i>Journal of Porous Materials</i> , 2018 , 25, 621-627	2.4	18
47	Development of mesoporosity in carbon spheres obtained by Stober method. <i>Microporous and Mesoporous Materials</i> , 2014 , 185, 197-203	5.3	17
46	Development of Microporosity in Mesoporous Carbons. <i>Topics in Catalysis</i> , 2010 , 53, 283-290	2.3	16
45	Extension of the Langmuir equation for describing gas adsorption on heterogeneous microporous solids. <i>Langmuir</i> , 1989 , 5, 839-844	4	16
44	Evaluation of structural heterogeneities and surface irregularities of microporous solids. <i>Materials Chemistry and Physics</i> , 1990 , 26, 87-97	4.4	16
43	Deposition of silver nanoparticles on silica spheres and rods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 411, 74-79	5.1	15
42	An improved methodology for adsorption characterization of unmodified and modified silica gels. <i>Journal of Colloid and Interface Science</i> , 2003 , 266, 168-74	9.3	15
41	Organic acid-assisted soft-templating synthesis of ordered mesoporous carbons. <i>Adsorption</i> , 2013 , 19, 563-569	2.6	13
40	Saran-Derived Carbons for CO ₂ and Benzene Sorption at Ambient Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15383-15388	3.9	12
39	Benzene Adsorption Isotherms on MCM-41 and their Use for Pore Size Analysis. <i>Adsorption</i> , 2004 , 10, 195-203	2.6	12
38	Adsorption characterization of surfactant-templated ordered mesoporous silicas synthesized with and without hydrothermal treatment. <i>Applied Surface Science</i> , 2005 , 252, 562-569	6.7	12
37	An improved method for evaluating the micropore-size distribution from adsorption isotherm. <i>Chemical Engineering Science</i> , 1991 , 46, 3299-3301	4.4	12
36	Comparative studies of the overall adsorption isotherm associated with Dubinin-Astakhov equation. <i>Carbon</i> , 1990 , 28, 243-246	10.4	12
35	Synthesis of rod-like silica-gold core-shell structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 393, 37-41	5.1	11
34	Correlation between adsorption of benzene from dilute aqueous solutions and benzene vapor adsorption on microporous active carbons. <i>Carbon</i> , 1991 , 29, 1294-1296	10.4	11

33	Applicability of classical methods of pore size analysis for MCM-41 and SBA-15 silicas. <i>Applied Surface Science</i> , 2007 , 253, 5587-5590	6.7	10
32	A model-independent analysis of nitrogen adsorption isotherms on oxidized active carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 189, 103-111	5.1	10
31	Tailoring surface and structural properties of composite materials by coupling Pt-decorated graphene oxide and ZIF-8-derived carbon. <i>Applied Surface Science</i> , 2018 , 459, 760-766	6.7	9
30	Influence of the Pore Geometry on the Micropore Size Distribution Function of Active Carbons. <i>Adsorption Science and Technology</i> , 1997 , 15, 571-581	3.6	9
29	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> , 2002 , 203, 97-103	5.1	9
28	Characterization of microporous carbons by using TGA curves measured under controlled conditions. <i>Thermochimica Acta</i> , 1996 , 272, 65-73	2.9	9
27	Advances in Microwave Synthesis of Nanoporous Materials. <i>Advanced Materials</i> , 2021 , 33, e2103477	24	9
26	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> , 2019 , 54, 13892-13900	4.3	8
25	Thermogravimetric and adsorption studies of oxidized active carbons by using different probe molecules. <i>Thermochimica Acta</i> , 2000 , 345, 165-172	2.9	8
24	Studies of surface and structural heterogeneities of microporous carbons by high-resolution thermogravimetry. <i>Studies in Surface Science and Catalysis</i> , 1994 , 87, 613-622	1.8	8
23	Use of argon adsorption isotherms for characterizing microporous activated carbons. <i>Fuel</i> , 1990 , 69, 516-518	7.1	7
22	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> , 1998 , 16, 295-302	3.6	6
21	Recent advances in mechanochemical synthesis of mesoporous metal oxides. <i>Materials Advances</i> , 2021 , 2, 2510-2523	3.3	6
20	Synthesis and adsorption properties of colloid-imprinted mesoporous carbons using poly(vinylidene chloride-co-vinyl chloride) as a carbon precursor. <i>Adsorption</i> , 2009 , 15, 167-171	2.6	5
19	Determination of the Specific Surface Areas of Non-Porous and Macroporous Carbons. <i>Adsorption Science and Technology</i> , 2001 , 19, 765-776	3.6	5
18	Application of the generalized Jaroniec-Choma isotherm equation for describing benzene adsorption on activated carbons. <i>Materials Chemistry and Physics</i> , 1990 , 25, 323-330	4.4	5
17	Solute adsorption from dilute solutions on structurally heterogeneous solids. <i>Journal of Colloid and Interface Science</i> , 1988 , 125, 561-566	9.3	5
16	Comparative studies of adsorption of ethane and benzene on microporous activated carbons. <i>Chemical Engineering Science</i> , 1990 , 45, 1539-1545	4.4	4

15	Benzene adsorption on microporous activated carbons. <i>Carbon</i> , 1989 , 27, 485-487	10.4	3
14	Correlation between the bet parameters and the parameters that characterize the microporous structures of activated carbons. <i>Materials Chemistry and Physics</i> , 1990 , 25, 287-296	4.4	3
13	A comparative method for studying adsorption from binary nonelectrolytic liquid mixtures on microporous solids. <i>Journal of Colloid and Interface Science</i> , 1990 , 135, 405-409	9.3	3
12	Characterization of activated carbons by utilizing the nitrogen adsorption data. <i>Materials Chemistry and Physics</i> , 1988 , 20, 179-189	4.4	3
11	Adsorption Properties of Micro-/Meso-Porous Carbons Obtained by Colloidal Templating and Post-Synthesis KOH Activation. <i>Adsorption Science and Technology</i> , 2011 , 29, 457-465	3.6	2
10	Adsorption isotherm equations associated with the gamma micropore-size distribution and their application for characterizing microporous solids. <i>Materials Chemistry and Physics</i> , 1989 , 24, 1-12	4.4	2
9	A new description of micropore filling and its application for characterizing microporous solids. <i>Colloids and Surfaces</i> , 1989 , 37, 183-196		2
8	Use of a Polynomial Equation for Analyzing Low-Concentration Adsorption Measurements of Ethane on Activated Carbons. <i>Separation Science and Technology</i> , 1989 , 24, 1355-1361	2.5	2
7	Comparison of the equilibrium adsorption isotherms measured by the dynamic and static methods for hydrocarbons on microporous activated carbons. <i>Carbon</i> , 1990 , 28, 737-739	10.4	2
6	Highly Porous Carbons Synthesized from Tannic Acid via a Combined Mechanochemical Salt-Templating and Mild Activation Strategy. <i>Molecules</i> , 2021 , 26,	4.8	2
5	Synthesis of OMS Materials and Investigation of Their Acceptor-Donor Characteristics. <i>Chromatographia</i> , 2012 , 75, 1147-1156	2.1	1
4	Energetic heterogeneity of oxidized activated carbon fibers. <i>Materials Chemistry and Physics</i> , 1992 , 30, 239-243	4.4	1
3	An isotherm equation for solute adsorption from dilute solutions on heterogeneous solids. <i>Carbon</i> , 1990 , 28, 734-736	10.4	1
2	Total specific surface area of heterogeneous microporous activated carbons. <i>Materials Chemistry and Physics</i> , 1990 , 24, 315-320	4.4	
1	Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids. <i>Monatshefte für Chemie</i> , 1988 , 119, 545-552	1.4	