

Andrey Av Shkolin

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.

84
papers

560
citations

12
h-index

17
g-index

90
ext. papers

773
ext. citations

1.4
avg, IF

4.14
L-index

#	Paper	IF	Citations
84	ZrBDC-Based Functional Adsorbents for Small-Scale Methane Storage Systems. <i>Adsorption Science and Technology</i> , 2022 , 2022, 1-20	3.6	0
83	Adsorption Properties of a Functional Porous Material Based on a ZnBTB MetalOrganic Framework Structure. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2022 , 58, 6-12	0.9	1
82	Experimental study of heat transfer in adsorbed natural gas storage system filled with microporous monolithic active carbon. <i>Journal of Physics: Conference Series</i> , 2021 , 2116, 012085	0.3	0
81	Thermodynamics of Methane Adsorption in a Microporous Carbon Adsorbent Prepared From Polymer Composition. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 883-889	0.9	0
80	Peculiarities of Thermodynamic Behaviors of Xenon Adsorption on the Activated Carbon Prepared from Silicon Carbide. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
79	Adsorption-Based Hydrogen Storage in Activated Carbons and Model Carbon Structures. <i>Reactions</i> , 2021 , 2, 209-226	1.5	3
78	Methane Adsorption on Microporous Carbon Adsorbent Prepared from Thermochemically Activated Wood. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 17-21	0.9	0
77	Carbon adsorbents for methane storage: genesis, synthesis, porosity, adsorption. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 276-291	2.8	6
76	The MIL-125 MetalOrganic Framework Structure for Adsorption-Based Accumulation of Methane and Hydrogen. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 672-679	0.9	0
75	Thermodynamics of methane adsorption on carbon adsorbent prepared from mineral coal. <i>Adsorption</i> , 2021 , 27, 1095	2.6	0
74	Development of an approach to estimating the adsorption-induced deformation limit values of microporous carbons 2021 , 50-55		
73	Adsorption of Carbon Dioxide onto Model Carbon Structures with Slitlike Micropores. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021 , 57, 1105-1114	0.9	0
72	Experimental study of the thermal management process at low-temperature circulating charging of an adsorbed natural gas storage system. <i>Journal of Physics: Conference Series</i> , 2021 , 2116, 012084	0.3	0
71	Preparation of novel hybrid catalyst with an hierarchical micro-/mesoporous structure by direct growth of the HKUST-1 nanoparticles inside mesoporous silica matrix (MMS). <i>Microporous and Mesoporous Materials</i> , 2020 , 300, 110136	5.3	10
70	Methane Adsorption in Microporous Carbon Adsorbent with a Bimodal Pore Size Distribution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 1-5	0.9	4
69	Methane Adsorption on FBDC MetalOrganic Porous Structures at High Pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 682-687	0.9	1
68	Carbon Nanoporous Adsorbents Prepared from Walnut Shell for Liquefied Natural Gas Vapor Recovery in Cryogenic Storage Systems. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 1122-1133	0.9	1

67	Zr-Based Metal-Organic Nanoporous Adsorbents of High Density for Methane Storage. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 1114-1121	0.9	2
66	High-Density Carbon Adsorbents for Natural Gas Storage. <i>Colloid Journal</i> , 2020 , 82, 719-726	1.1	2
65	Estimation of adsorption of ethane on the superactive microporous carbon adsorbent using the theory of volume filling of micropores. <i>Russian Chemical Bulletin</i> , 2020 , 69, 2091-2096	1.7	2
64	Adsorption Accumulation of Liquefied Natural Gas Vapors. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 897-903	0.9	3
63	Thermodynamic Behaviors of Adsorbed Methane Storage Systems Based on Nanoporous Carbon Adsorbents Prepared from Coconut Shells. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
62	Thermodynamics of Adsorbed Methane Storage Systems Based on Peat-Derived Activated Carbons. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
61	Adsorption of Hydrogen in Microporous Carbon Adsorbents of Different Origin. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 413-419	0.9	8
60	Methane Adsorption on the Metal-Organic Framework Structure Al-BTC. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 9-14	0.9	5
59	Methane Adsorption in Microporous Carbon Adsorbent LCN Obtained by Thermochemical Synthesis from Lignocellulose. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 211-216 ^{0.9}	0.9	4
58	Monolithic microporous carbon adsorbent for low-temperature natural gas storage. <i>Adsorption</i> , 2019 , 25, 1559-1573	2.6	5
57	Ethane adsorption on microporous carbon adsorbent with a wide pore size distribution. <i>Russian Chemical Bulletin</i> , 2019 , 68, 1838-1842	1.7	3
56	Functional Composite Adsorbents of High Packing Density Based on Metal-Organic Framework Structures for Methane Accumulation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 826-832	0.9	6
55	Metal-organic framework structures: adsorbents for natural gas storage. <i>Russian Chemical Reviews</i> , 2019 , 88, 925-978	6.8	33
54	Adsorption-Induced and Thermal Deformation of Microporous Carbon Adsorbent upon n-Octane Adsorption. <i>Colloid Journal</i> , 2019 , 81, 797-803	1.1	2
53	Methane Adsorption on Cu-BTC110 Metal-Organic Framework. <i>Russian Journal of Inorganic Chemistry</i> , 2019 , 64, 1507-1512	1.5	3
52	The Influence of the Structural and Energetic Characteristics of the Microporous Structure of Carbon Adsorbents on Hydrogen Adsorption. <i>Colloid Journal</i> , 2019 , 81, 607-612	1.1	7
51	Deformation of AUK Adsorbent and Adsorbate Structure upon n-Octane Adsorption. <i>Colloid Journal</i> , 2019 , 81, 613-620	1.1	3
50	Functional Composite Adsorbents Based on Metal-Organic Frameworks in a Carbon Matrix Applied for Methane Storage. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 1080-1084	0.9	3

49	Measurements of Adsorption and Thermal Deformations of Microporous Carbon Adsorbents. <i>Measurement Techniques</i> , 2018 , 60, 1051-1057	0.4	4
48	Adsorption of Neon in Model Carbon Microporous Adsorbents with Slit-Like Micropores. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 552-558	0.7	4
47	Measurement of Carbon-Nanotube Adsorption of Energy-Carrier Gases for Alternative Energy Systems. <i>Measurement Techniques</i> , 2018 , 61, 395-401	0.4	11
46	Adsorption of Natural Gas Methane on Metal-Organic Framework Structures in the Range of Supercritical Temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018 , 54, 347-353	0.9	9
45	Model Nanoporous Supramolecular Structures Based on Carbon Nanotubes and Hydrocarbons for Methane and Hydrogen Adsorption. <i>Colloid Journal</i> , 2018 , 80, 739-750	1.1	4
44	Hydrogen (H ₂) Adsorption in Model Carbon Adsorbents with Slitlike Micropores. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018 , 54, 754-762	0.9	5
43	Synthesis and Structural-Energy Characteristics of Fe-BDC Metal-Organic Frameworks. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2018 , 54, 1004-1009	0.9	8
42	Supramolecular nanoporous carbon materials based on the arrays of carbon nanotubes, ordered by cyclic hydrocarbons for methane and hydrogen storage. <i>Materials Today: Proceedings</i> , 2018 , 5, 25911-25915	1.1	15
41	Optimization of structural and energy characteristics of adsorbents for methane storage. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1814-1822	1.7	13
40	Porous carbon-based adsorption systems for natural gas (methane) storage. <i>Russian Chemical Reviews</i> , 2018 , 87, 950-983	6.8	30
39	Adsorption-Induced Deformation of Adsorbents. <i>Colloid Journal</i> , 2018 , 80, 578-586	1.1	5
38	Adsorption accumulation of natural gas based on microporous carbon adsorbents of different origin. <i>Adsorption</i> , 2017 , 23, 327-339	2.6	23
37	Methane adsorption on microporous carbon adsorbent with wide pore size distribution. <i>Colloid Journal</i> , 2017 , 79, 144-151	1.1	10
36	Thermodynamics of krypton adsorption on microporous carbon adsorbent at high pressures. <i>Russian Chemical Bulletin</i> , 2017 , 66, 607-613	1.7	5
35	Supramolecular microporous structures based on carbon nanotubes and coordinating cumene (C ₉ H ₁₂) molecules. <i>Colloid Journal</i> , 2017 , 79, 701-706	1.1	5
34	Sorbostriction of FAS-3 microporous carbon adsorbent upon vapor adsorption from a flow of nitrogen carrier gas. <i>Colloid Journal</i> , 2017 , 79, 773-778	1.1	0
33	Synthesis and Structure-Energy Characteristics of an MOF Al-BTC Organometallic Framework Structure. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017 , 53, 961-966	0.9	8
32	The energy of adsorption of methane on microporous carbon adsorbents. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017 , 53, 780-785	0.9	6

31	Description of methane adsorption on microporous carbon adsorbents on the range of supercritical temperatures on the basis of the DubininAstakhov equation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 575-580	0.9	11
30	A study of methane adsorption and accumulation on microporous carbon adsorbent in a wide temperature range. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 762-770	0.9	7
29	Measurement of Adsorption of Methane at High Pressures for Alternative Energy Systems. <i>Measurement Techniques</i> , 2016 , 58, 1387-1391	0.4	12
28	Adsorption of methane on an MOF-199 organometallic framework structure at high pressures in the range of supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 24-29	0.9	12
27	Self-organization of supramolecular microporous structures based on carbon nanotubes and benzene. <i>Colloid Journal</i> , 2016 , 78, 800-807	1.1	5
26	Description of Adsorption-Stimulated Deformation of Microporous Adsorbents Based on Generalized Potential of Intermolecular Interactions (6, n). <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 193-198	0.9	3
25	Experimental study and numerical modeling: Methane adsorption in microporous carbon adsorbent over the subcritical and supercritical temperature regions. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 955-963	0.9	21
24	Wave sorbostriction of AP-B recuperated carbon adsorbent during adsorption of vapors of organic substances. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 49-56	0.9	2
23	The influence of mechanical activation on the adsorption properties of powdered tungsten. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 81-84	0.9	1
22	Synthesis and studies of thermal stability of NaK-, K-, Na-, and Li forms of LSX zeolite. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 767-772	0.9	3
21	Deformation of AUK microporous carbon adsorbent induced by xenon adsorption. <i>Colloid Journal</i> , 2015 , 77, 812-820	1.1	7
20	Methane adsorption on microporous carbon adsorbents in the region of supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 493-498	0.9	17
19	Deformation of AUK microporous carbon adsorbent induced by krypton adsorption. <i>Colloid Journal</i> , 2014 , 76, 351-357	1.1	10
18	Adsorption of methane on model adsorbents formed from single-wall carbon nanotubes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014 , 50, 279-286	0.9	10
17	Carbon adsorbents used for gold recovery technology with cyanide. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014 , 50, 689-693	0.9	3
16	Low-temperature adsorption of methane on microporous AU-1 carbon adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014 , 50, 15-21	0.9	12
15	Adsorption deformation of AUK microporous carbon adsorbent at adsorption of n-heptane. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013 , 49, 373-378	0.9	8
14	Adsorption of methane on AU-5 microporous carbon adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013 , 49, 521-527	0.9	10

13	Wave sorbostriction: Waves of adsorption deformation of microporous adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012 , 48, 158-164	0.9	6
12	Adsorption-induced deformation of AUK microporous carbon adsorbent in adsorption of n-pentane. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011 , 47, 555-561	0.9	11
11	Adsorption of n-pentane on a microporous carbon adsorbent with a narrow pore size distribution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010 , 46, 184-190	0.9	4
10	Nitrogen adsorption by microporous adsorbents in the range of high pressures and supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010 , 46, 519-523	0.9	6
9	Krypton adsorption on microporous adsorbents at higher pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010 , 46, 639-643	0.9	7
8	Xenon adsorption on microporous adsorbents at higher pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010 , 46, 644-647	0.9	3
7	Theory of volume filling of micropores applied to the description of methane adsorption on the microporous carbon adsorbent AUK. <i>Russian Chemical Bulletin</i> , 2009 , 58, 717-721	1.7	9
6	Deformation of AUK microporous carbon adsorbent induced by methane adsorption. <i>Colloid Journal</i> , 2009 , 71, 119-124	1.1	25
5	Wave sorbostriction in adsorption of gases and vapors. <i>Doklady Physical Chemistry</i> , 2008 , 423, 292-296	0.8	8
4	A technique for measuring an adsorption-induced deformation. <i>Instruments and Experimental Techniques</i> , 2008 , 51, 150-155	0.5	7
3	Thermodynamics of methane adsorption on the microporous carbon adsorbent ACC. <i>Russian Chemical Bulletin</i> , 2008 , 57, 1799-1805	1.7	13
2	Methane adsorption on AUK microporous carbon adsorbent. <i>Colloid Journal</i> , 2008 , 70, 796-801	1.1	19
1	Analysis of adsorption isosteres of gas and vapor on microporous adsorbents. <i>Russian Chemical Bulletin</i> , 2007 , 56, 393-396	1.7	9