

# Andrey Av Shkolin

## List of Publications by Citations

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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	Metal-organic framework structures: adsorbents for natural gas storage. <i>Russian Chemical Reviews</i> , <b>2019</b> , 88, 925-978	6.8	33
83	Porous carbon-based adsorption systems for natural gas (methane) storage. <i>Russian Chemical Reviews</i> , <b>2018</b> , 87, 950-983	6.8	30
82	Deformation of AUK microporous carbon adsorbent induced by methane adsorption. <i>Colloid Journal</i> , <b>2009</b> , 71, 119-124	1.1	25
81	Adsorption accumulation of natural gas based on microporous carbon adsorbents of different origin. <i>Adsorption</i> , <b>2017</b> , 23, 327-339	2.6	23
80	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> , <b>2016</b> , 52, 955-963	0.9	21
79	Methane adsorption on AUK microporous carbon adsorbent. <i>Colloid Journal</i> , <b>2008</b> , 70, 796-801	1.1	19
78	Methane adsorption on microporous carbon adsorbents in the region of supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 493-498	0.9	17
77	Thermodynamics of methane adsorption on the microporous carbon adsorbent ACC. <i>Russian Chemical Bulletin</i> , <b>2008</b> , 57, 1799-1805	1.7	13
76	Optimization of structural and energy characteristics of adsorbents for methane storage. <i>Russian Chemical Bulletin</i> , <b>2018</b> , 67, 1814-1822	1.7	13
75	Measurement of Adsorption of Methane at High Pressures for Alternative Energy Systems. <i>Measurement Techniques</i> , <b>2016</b> , 58, 1387-1391	0.4	12
74	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> , <b>2016</b> , 52, 24-29	0.9	12
73	Low-temperature adsorption of methane on microporous AU-1 carbon adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2014</b> , 50, 15-21	0.9	12
72	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> , <b>2016</b> , 52, 575-580	0.9	11
71	Measurement of Carbon-Nanotube Adsorption of Energy-Carrier Gases for Alternative Energy Systems. <i>Measurement Techniques</i> , <b>2018</b> , 61, 395-401	0.4	11
70	Adsorption-induced deformation of AUK microporous carbon adsorbent in adsorption of n-pentane. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2011</b> , 47, 555-561	0.9	11
69	Methane adsorption on microporous carbon adsorbent with wide pore size distribution. <i>Colloid Journal</i> , <b>2017</b> , 79, 144-151	1.1	10
68	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> , <b>2020</b> , 300, 110136	5.3	10

67	Deformation of AUK microporous carbon adsorbent induced by krypton adsorption. <i>Colloid Journal</i> , <b>2014</b> , 76, 351-357	1.1	10
66	Adsorption of methane on model adsorbents formed from single-wall carbon nanotubes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2014</b> , 50, 279-286	0.9	10
65	Adsorption of methane on AU-5 microporous carbon adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2013</b> , 49, 521-527	0.9	10
64	Theory of volume filling of micropores applied to the description of methane adsorption on the microporous carbon adsorbent AUK. <i>Russian Chemical Bulletin</i> , <b>2009</b> , 58, 717-721	1.7	9
63	Analysis of adsorption isosteres of gas and vapor on microporous adsorbents. <i>Russian Chemical Bulletin</i> , <b>2007</b> , 56, 393-396	1.7	9
62	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> , <b>2018</b> , 54, 347-353	0.9	9
61	Adsorption of Hydrogen in Microporous Carbon Adsorbents of Different Origin. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2019</b> , 55, 413-419	0.9	8
60	Adsorption deformation of AUK microporous carbon adsorbent at adsorption of n-heptane. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2013</b> , 49, 373-378	0.9	8
59	Synthesis and Structure Energy Characteristics of an MOF Al-BTC Organometallic Framework Structure. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2017</b> , 53, 961-966	0.9	8
58	Wave sorbostriction in adsorption of gases and vapors. <i>Doklady Physical Chemistry</i> , <b>2008</b> , 423, 292-296	0.8	8
57	Synthesis and Structural-Energy Characteristics of Fe-BDC Metal-Organic Frameworks. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 1004-1009	0.9	8
56	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> , <b>2016</b> , 52, 762-770	0.9	7
55	Deformation of AUK microporous carbon adsorbent induced by xenon adsorption. <i>Colloid Journal</i> , <b>2015</b> , 77, 812-820	1.1	7
54	Krypton adsorption on microporous adsorbents at higher pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2010</b> , 46, 639-643	0.9	7
53	A technique for measuring an adsorption-induced deformation. <i>Instruments and Experimental Techniques</i> , <b>2008</b> , 51, 150-155	0.5	7
52	The Influence of the Structural and Energetic Characteristics of the Microporous Structure of Carbon Adsorbents on Hydrogen Adsorption. <i>Colloid Journal</i> , <b>2019</b> , 81, 607-612	1.1	7
51	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> , <b>2019</b> , 55, 826-832	0.9	6
50	Wave sorbostriction: Waves of adsorption deformation of microporous adsorbent. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2012</b> , 48, 158-164	0.9	6

49	The energy of adsorption of methane on microporous carbon adsorbents. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2017</b> , 53, 780-785	0.9	6
48	Nitrogen adsorption by microporous adsorbents in the range of high pressures and supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2010</b> , 46, 519-523	0.9	6
47	Thermodynamics of Adsorbed Methane Storage Systems Based on Peat-Derived Activated Carbons. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
46	Carbon adsorbents for methane storage: genesis, synthesis, porosity, adsorption. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 276-291	2.8	6
45	Methane Adsorption on the Metal-Organic Framework Structure Al-BTC. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2019</b> , 55, 9-14	0.9	5
44	Monolithic microporous carbon adsorbent for low-temperature natural gas storage. <i>Adsorption</i> , <b>2019</b> , 25, 1559-1573	2.6	5
43	Thermodynamics of krypton adsorption on microporous carbon adsorbent at high pressures. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 607-613	1.7	5
42	Supramolecular microporous structures based on carbon nanotubes and coordinating cumene (C <sub>9</sub> H <sub>12</sub> ) molecules. <i>Colloid Journal</i> , <b>2017</b> , 79, 701-706	1.1	5
41	Thermodynamic Behaviors of Adsorbed Methane Storage Systems Based on Nanoporous Carbon Adsorbents Prepared from Coconut Shells. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	5
40	Self-organization of supramolecular microporous structures based on carbon nanotubes and benzene. <i>Colloid Journal</i> , <b>2016</b> , 78, 800-807	1.1	5
39	Hydrogen (H <sub>2</sub> ) Adsorption in Model Carbon Adsorbents with Slitlike Micropores. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 754-762	0.9	5
38	Adsorption-Induced Deformation of Adsorbents. <i>Colloid Journal</i> , <b>2018</b> , 80, 578-586	1.1	5
37	Methane Adsorption in Microporous Carbon Adsorbent LCN Obtained by Thermochemical Synthesis from Lignocellulose. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2019</b> , 55, 211-216 <sup>0.9</sup>	0.9	4
36	Methane Adsorption in Microporous Carbon Adsorbent with a Bimodal Pore Size Distribution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 1-5	0.9	4
35	Measurements of Adsorption and Thermal Deformations of Microporous Carbon Adsorbents. <i>Measurement Techniques</i> , <b>2018</b> , 60, 1051-1057	0.4	4
34	Adsorption of Neon in Model Carbon Microporous Adsorbents with Slit-Like Micropores. <i>Russian Journal of Physical Chemistry A</i> , <b>2018</b> , 92, 552-558	0.7	4
33	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> , <b>2010</b> , 46, 184-190	0.9	4
32	Model Nanoporous Supramolecular Structures Based on Carbon Nanotubes and Hydrocarbons for Methane and Hydrogen Adsorption. <i>Colloid Journal</i> , <b>2018</b> , 80, 739-750	1.1	4

31	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> , <b>2015</b> , 51, 767-772	0.9	3
30	Ethane adsorption on microporous carbon adsorbent with a wide pore size distribution. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 1838-1842	1.7	3
29	Carbon adsorbents used for gold recovery technology with cyanide. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2014</b> , 50, 689-693	0.9	3
28	Xenon adsorption on microporous adsorbents at higher pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2010</b> , 46, 644-647	0.9	3
27	Adsorption Accumulation of Liquefied Natural Gas Vapors. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 897-903	0.9	3
26	Adsorption-Based Hydrogen Storage in Activated Carbons and Model Carbon Structures. <i>Reactions</i> , <b>2021</b> , 2, 209-226	1.5	3
25	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> , <b>2016</b> , 52, 193-198	0.9	3
24	Methane Adsorption on Cu-BTC110 Metal-Organic Framework. <i>Russian Journal of Inorganic Chemistry</i> , <b>2019</b> , 64, 1507-1512	1.5	3
23	Deformation of AUK Adsorbent and Adsorbate Structure upon n-Octane Adsorption. <i>Colloid Journal</i> , <b>2019</b> , 81, 613-620	1.1	3
22	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> , <b>2019</b> , 55, 1080-1084	0.9	3
21	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> , <b>2015</b> , 51, 49-56	0.9	2
20	Zr-Based Metal-Organic Nanoporous Adsorbents of High Density for Methane Storage. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 1114-1121	0.9	2
19	High-Density Carbon Adsorbents for Natural Gas Storage. <i>Colloid Journal</i> , <b>2020</b> , 82, 719-726	1.1	2
18	Estimation of adsorption of ethane on the superactive microporous carbon adsorbent using the theory of volume filling of micropores. <i>Russian Chemical Bulletin</i> , <b>2020</b> , 69, 2091-2096	1.7	2
17	Adsorption-Induced and Thermal Deformation of Microporous Carbon Adsorbent upon n-Octane Adsorption. <i>Colloid Journal</i> , <b>2019</b> , 81, 797-803	1.1	2
16	The influence of mechanical activation on the adsorption properties of powdered tungsten. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 81-84	0.9	1
15	Methane Adsorption on FBDC Metal-Organic Porous Structures at High Pressures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 682-687	0.9	1
14	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> , <b>2020</b> , 56, 1122-1133	0.9	1

13	Peculiarities of Thermodynamic Behaviors of Xenon Adsorption on the Activated Carbon Prepared from Silicon Carbide. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
12	Adsorption Properties of a Functional Porous Material Based on a ZnBTB MetalOrganic Framework Structure. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2022</b> , 58, 6-12	0.9	1
11	Sorbostriction of FAS-3 microporous carbon adsorbent upon vapor adsorption from a flow of nitrogen carrier gas. <i>Colloid Journal</i> , <b>2017</b> , 79, 773-778	1.1	0
10	Experimental study of heat transfer in adsorbed natural gas storage system filled with microporous monolithic active carbon. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2116, 012085	0.3	0
9	ZrBDC-Based Functional Adsorbents for Small-Scale Methane Storage Systems. <i>Adsorption Science and Technology</i> , <b>2022</b> , 2022, 1-20	3.6	0
8	Thermodynamics of Methane Adsorption in a Microporous Carbon Adsorbent Prepared From Polymer Composition. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 883-889	0.9	0
7	Methane Adsorption on Microporous Carbon Adsorbent Prepared from Thermochemically Activated Wood. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 17-21	0.9	0
6	The MIL-125 MetalOrganic Framework Structure for Adsorption-Based Accumulation of Methane and Hydrogen. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 672-679	0.9	0
5	Thermodynamics of methane adsorption on carbon adsorbent prepared from mineral coal. <i>Adsorption</i> , <b>2021</b> , 27, 1095	2.6	0
4	Adsorption of Carbon Dioxide onto Model Carbon Structures with Slitlike Micropores. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 1105-1114	0.9	0
3	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> , <b>2021</b> , 2116, 012084	0.3	0
2	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> , <b>2018</b> , 5, 25911-25915	1.4	1
1	Development of an approach to estimating the adsorption-induced deformation limit values of microporous carbons <b>2021</b> , 50-55		