Alexander M Puziy

List of Publications by Year
in descending order

79	4,312	236925 25	106344 65
papers	citations	h-index	g-index

79	79	79	4895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	XPS and NMR studies of phosphoric acid activated carbons. Carbon, 2008, 46, 2113-2123.	10.3	743
2	Highly Stable Performance of Supercapacitors from Phosphorus-Enriched Carbons. Journal of the American Chemical Society, 2009, 131, 5026-5027.	13.7	564
3	Synthetic carbons activated with phosphoric acid. Carbon, 2002, 40, 1493-1505.	10.3	483
4	Surface chemistry of phosphorus-containing carbons of lignocellulosic origin. Carbon, 2005, 43, 2857-2868.	10.3	316
5	Porous structure and surface chemistry of phosphoric acid activated carbon from corncob. Applied Surface Science, 2012, 261, 75-82.	6.1	209
6	On the chemical structure of phosphorus compounds in phosphoric acid-activated carbon. Applied Surface Science, 2006, 252, 8036-8038.	6.1	179
7	Preparation of carbon adsorbents from lignosulfonate by phosphoric acid activation for the adsorption of metal ions. Carbon, 2014, 80, 771-783.	10.3	151
8	Synthetic carbons activated with phosphoric acid III. Carbons prepared in air. Carbon, 2003, 41, 1181-1191.	10.3	141
9	Oxygen and phosphorus enriched carbons from lignocellulosic material. Carbon, 2007, 45, 1941-1950.	10.3	115
10	Characterisation of novel modified active carbons and marine algal biomass for the selective adsorption of lead. Water Research, 2002, 36, 1527-1538.	11.3	104
11	Phosphorus-containing carbons: Preparation, properties and utilization. Carbon, 2020, 157, 796-846.	10.3	100
12	Synthetic carbons activated with phosphoric acid. Carbon, 2002, 40, 1507-1519.	10.3	89
13	Capacitive Behaviours of Phosphorus-Rich Carbons Derived from Lignocelluloses. Electrochimica Acta, 2014, 137, 219-227.	5.2	85
14	Phosphorus, nitrogen and oxygen co-doped polymer-based core-shell carbon sphere for high-performance hybrid supercapacitors. Electrochimica Acta, 2018, 270, 339-351.	5.2	78
15	Use of CONTIN for Calculation of Adsorption Energy Distributionâ€. Langmuir, 1999, 15, 6016-6025.	3.5	57
16	Elucidation of the ion binding mechanism in heterogeneous carbon-composite adsorbents. Carbon, 2001, 39, 2313-2324.	10.3	56
17	Carbon Materials from Technical Lignins: Recent Advances. Topics in Current Chemistry, 2018, 376, 33.	5.8	52
18	Modeling of heavy metal ion binding by phosphoric acid activated carbon. Applied Surface Science, 2004, 221, 421-429.	6.1	50

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19	The properties of synthetic carbon derived from nitrogen- and phosphorus-containing polymer. Carbon, 1998, 36, 45-50.	10.3	46
20	Acid properties of phosphoric acid activated carbons and their catalytic behavior in ethyl-tert-butyl ether synthesis. Carbon, 2010, 48, 706-713.	10.3	42
21	Comparison of heterogeneous pore models QSDFT and 2D-NLDFT and computer programs ASiQwin and SAIEUS for calculation of pore size distribution. Adsorption, 2016, 22, 459-464.	3.0	42
22	Characterization of synthetic carbons activated with phosphoric acid. Applied Surface Science, 2002, 200, 196-202.	6.1	40
23	Phosphoric acid activationâ€"Functionalization and porosity modification. Applied Surface Science, 2007, 253, 5736-5740.	6.1	33
24	Photocatalytic degradation of dyes using phosphorus-containing activated carbons. Applied Surface Science, 2021, 535, 147667.	6.1	28
25	Liquid phase synthesis of ethyl-tert-butyl ether: The relationship between acid, adsorption and catalytic properties of zeolite catalysts. Journal of Molecular Catalysis A, 2006, 253, 192-197.	4.8	26
26	Heterogeneity of Synthetic Active Carbons. Langmuir, 1995, 11, 543-546.	3.5	25
27	Cesium and strontium exchange by the framework potassium titanium silicate K3HTi4O4(SiO4)3Â·4H2O. Journal of Radioanalytical and Nuclear Chemistry, 1998, 237, 73-80.	1.5	24
28	Functionalization of Carbon and Silica Gel by Phosphoric Acid. Adsorption Science and Technology, 2007, 25, 531-542.	3.2	23
29	Modeling of High-Pressure Adsorption Using the Bender Equation of State. Langmuir, 2003, 19, 314-320.	3.5	22
30	Synthesis of large-pore mesoporous nanocrystalline TiO2 microspheres. Materials Letters, 2012, 75, 68-70.	2.6	22
31	Methods of production, structure, and physicochemical characteristics of phosphorylated carbon adsorbents. Theoretical and Experimental Chemistry, 2011, 47, 277-291.	0.8	20
32	Heterogeneity of synthetic carbons obtained from polyimides. Applied Surface Science, 2002, 196, 89-97.	6.1	18
33	Structural and surface heterogeneity of phosphorus-containing polyimide-derived carbons: effect of heat treatment temperature. Adsorption, 2013, 19, 717-722.	3.0	18
34	Comparison of Various Numerical Procedures for Analysis of Structural Heterogeneity. Langmuir, 1997, 13, 1303-1306.	3.5	15
35	Polymer-Based Carbon Adsorbents Obtained from Copolymer of 4,4'-Bis(maleimidodiphenyl)methane and Divinylbenzene for Use in SPE. Chromatographia, 2006, 64, 1-7.	1.3	15
36	Synthesis and characterization of thermally stable large-pore mesoporous nanocrystallineanatase. Journal of Solid State Chemistry, 2013, 200, 90-98.	2.9	15

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37	Kinetics of protein adsorption by nanoporous carbons with different pore size. Adsorption, 2016, 22, 541-552.	3.0	15
38	Activated carbons with adsorbed cations as photocatalysts for pollutants degradation in aqueous medium. Adsorption, 2019, 25, 267-278.	3.0	14
39	Porous Structure and Adsorption Properties of Synthetic Active Carbons. Adsorption Science and Technology, 1995, 12, 267-277.	3.2	12
40	Characterization of Surface Heterogeneity of Carbon-Composite Adsorbents. Materials Science Forum, 1999, 308-311, 908-916.	0.3	12
41	One-pot preparation of functionalized nanostructured carbons. Carbon, 2011, 49, 599-604.	10.3	12
42	Synthetic Carbon Derived from Polyimide. Adsorption Science and Technology, 1998, 16, 225-234.	3.2	11
43	Nanostructured carbons for solid phase extraction. Applied Surface Science, 2010, 256, 5216-5220.	6.1	11
44	Methanol carboxylation over zirconium dioxide: Effect of catalyst phase composition on its acidâ€base spectrum and direction of catalytic transformations. Canadian Journal of Chemical Engineering, 2016, 94, 745-751.	1.7	10
45	Ethyl tert-butyl ether synthesis using carbon catalysts from lignocellulose. Adsorption Science and Technology, 2017, 35, 473-481.	3.2	10
46	Photocatalytic and photoelectrochemical properties of hierarchical mesoporous TiO2 microspheres produced using a crown template. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 26-35.	3.9	10
47	Surface heterogeneity of carbonâ€“silica adsorbents studied on the basis of the complex adsorption investigations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 213, 45-57.	4.7	8
48	Nanocomposite Ni/TiO2-materials for hydrogen generation systems. International Journal of Hydrogen Energy, 2011, 36, 1364-1368.	7.1	8
49	Carbon Materials from Technical Lignins: Recent Advances. Topics in Current Chemistry Collections, 2020, , 95-128.	0.5	8
50	Microbalance Techniques in Design and Control of Synthetic Carbons. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 62, 491-497.	1.4	7
51	Carbon Sorbents Derived from Porous Polymers for Offâ€Line Preconcentration of Chlorophenols from Water. Journal of Liquid Chromatography and Related Technologies, 2004, 27, 1027-1041.	1.0	7
52	Acid-base characteristics of carbon adsorbents, determined by potentiometric titration. Russian Journal of Applied Chemistry, 2004, 77, 1263-1267.	0.5	7
53	Structural and adsorption properties of active carbon from coconut shells modified with phosphorus heteroatoms. Theoretical and Experimental Chemistry, 2012, 48, 272-277.	0.8	7
54	Adsorption by Phosphorus-Containing Carbons. , 2012, , 245-267.		7

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55	Assessment of the structural evolution of polyimide-derived carbons obtained by phosphoric acid activation using Fourier transform infrared and Raman spectroscopy. Adsorption Science and Technology, 2017, 35, 403-412.	3.2	7
56	Mesoporous TiO2 microspheres with improved efficiency for photooxidation of volatile organic compounds. Research on Chemical Intermediates, 2019, 45, 4133-4148.	2.7	7
57	Phosphoric Acid and Steam as Activation Agents for Carbonized Porous Polymer Surfaces. Adsorption Science and Technology, 2006, 24, 167-176.	3.2	6
58	Adsorption of copper ions by carbon adsorbents modified by phosphoric acid at different temperatures. Journal of Water Chemistry and Technology, 2014, 36, 110-114.	0.6	6
59	Photocatalytic and Photoelectrochemical Characteristics of Mesoporous Titanium Dioxide Microspheres. Theoretical and Experimental Chemistry, 2015, 51, 183-190.	0.8	6
60	Crucial Role of Weak Acid Sites for Catalytic Performance of Zeolites in Ethyl tert-butyl Ether Synthesis. Chemical Engineering Communications, 2017, 204, 937-941.	2.6	6
61	Synthesis and characterization of different binary and ternary phase mixtures of mesoporous nanocrystalline titanium dioxide. SN Applied Sciences, 2021, 3, 1.	2.9	6
62	Porous Structure of Synthetic Active Carbons. Studies in Surface Science and Catalysis, 1991, 62, 439-447.	1.5	5
63	Synthesis, characterization and ion exchange properties of the framework sodium titanium germanate Na3H(TiO)3(GeO)(GeO4)3Â·7H2O. Journal of Radioanalytical and Nuclear Chemistry, 1999, 240, 851-857.	1.5	5
64	Analysis of structure and properties of active carbons and their copolymeric precursors. Applied Surface Science, 2010, 256, 5355-5360.	6.1	5
65	Catalytic Properties of Phosphorus-Containing Charcoals in Ethyl Acetate Hydrolysis. Theoretical and Experimental Chemistry, 2014, 50, 187-190.	0.8	5
66	Photocatalytic Activity of Mesoporous Titanium Dioxide Stabilized with Lanthanum in the Gas-Phase Oxidation of Ethanol. Theoretical and Experimental Chemistry, 2018, 53, 395-401.	0.8	5
67	Characterization of novel adsorbents for radiostrontium reduction in foods. Journal of Radioanalytical and Nuclear Chemistry, 1999, 240, 101-107.	1.5	4
68	Impact of the Carbonization Atmosphere on the Properties of Phosphoric Acid-Activated Carbons from Fruit Stones. Adsorption Science and Technology, 2008, 26, 843-851.	3.2	4
69	Thermal properties of porous copolymers of BM-DVB and their carbonization products. New Carbon Materials, 2011, 26, 137-144.	6.1	3
70	Synthetic Carbons Derived from a Styreneâ€"Divinylbenzene Copolymer Using Phosphoric Acid Activation. Adsorption Science and Technology, 2005, 23, 19-26.	3.2	2
71	Laser desorption/ionization time of flight mass spectrometry of phosphorus-containing carbons. Carbon, 2013, 53, 405-408.	10.3	2
72	The use of H-form clinoptilolite to preconcentrate trace amounts of Nd(III) from aqueous solution under dynamic conditions. Microporous and Mesoporous Materials, 2022, 333, 111739.	4.4	2

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73	Preparation of nanostructured carbons for solid phase extraction. Annales Universitatis Mariae Curie-Sklodowska Sectio AA â€“ Chemia, 2009, 64, .	0.2	1
74	Utilidad de la visualizaciÃ³n de trofozoitos en lÃquido pleural en el diagnÃ³stico de empiema y absceso hepÃ¡tico amebianos. Archivos De Bronconeumologia, 2011, 47, 265-266.	0.8	1
75	Cation-containing active carbons as photocatalysts for dyes degradation. Himia, Fizika Ta Tehnologia Poverhni, 2017, 8, 422-431.	0.9	1
76	PHOTOCATALYTIC ACTIVITY OF MESOPOROUS TiO2 (ANATAS) IN THE REACTION OF HYDROGEN RELEASE FROM AQUEOUS-ETHANOLIC MIXTURE. Ukrainian Chemistry Journal, 2022, 88, 94-112.	0.5	1
77	Effect of Redox and Acid Properties of Gaâ€“H-ZSM-5 Nanophase Catalysts Modified by Transition Metals on the Reduction of Nitrous Oxide by Methane. Theoretical and Experimental Chemistry, 2018, 54, 247-254.	0.8	0
78	Editorial: Physisorption of Gases: Adsorbent Characterization, Adsorbent-Adsorbate Equilibrium and Kinetics. Frontiers in Chemistry, 2021, 9, 668553.	3.6	0
79	A Mossbauer Study of Iron Adsorption on Active Carbons. Kluwer International Series in Engineering and Computer Science, 1996, , 741-748.	0.2	0