Alexander E Burakov

List of Publications by Year
in descending order

42	2,210	840119 11	500791 28
papers	citations	h-index	g-index

43	43	43	2978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption of heavy metals on conventional and nanostructured materials for wastewater treatment purposes: A review. Ecotoxicology and Environmental Safety, 2018, 148, 702-712.	2.9	1,135
2	Graphene based adsorbents for remediation of noxious pollutants from wastewater. Environment International, 2019, 127, 160-180.	4.8	367
3	Water treatment by new-generation graphene materials: hope for bright future. Environmental Science and Pollution Research, 2018, 25, 7315-7329.	2.7	146
4	High-Speed and High-Capacity Removal of Methyl Orange and Malachite Green in Water Using Newly Developed Mesoporous Carbon: Kinetic and Isotherm Studies. ACS Omega, 2019, 4, 19293-19306.	1.6	89
5	Removal of Copper(II) and Zinc(II) Ions in Water onÂa Newly Synthesized Polyhydroquinone/Graphene Nanocomposite Material: Kinetics, Thermodynamics and Mechanism. ChemistrySelect, 2019, 4, 12708-12718.	0.7	88
6	Fast removal of samarium ions in water on highly efficient nanocomposite based graphene oxide modified with polyhydroquinone: Isotherms, kinetics, thermodynamics and desorption. Journal of Molecular Liquids, 2021, 329, 115584.	2.3	71
7	Adsorption of p-Cresol on Al2O3 coated multi-walled carbon nanotubes: Response surface methodology and isotherm study. Journal of Industrial and Engineering Chemistry, 2018, 57, 396-404.	2.9	63
8	High-flux ultrafiltration membrane based on electrospun polyacrylonitrile nanofibrous scaffolds for arsenate removal from aqueous solutions. Journal of Colloid and Interface Science, 2017, 506, 564-571.	5.0	59
9	Kinetics of the adsorption of scandium and cerium ions in sulfuric acid solutions on a nanomodified activated carbon. Journal of Molecular Liquids, 2018, 253, 277-283.	2.3	49
10	Preparation and characterization of oxidized graphene for actinides and rare earth elements removal in nitric acid solutions from nuclear wastes. Journal of Molecular Liquids, 2021, 335, 116260.	2.3	32
11	Removal of Heavy-Metal Ions from Aqueous Solutions Using Activated Carbons: Effect of Adsorbent Surface Modification with Carbon Nanotubes. Adsorption Science and Technology, 2014, 32, 737-747.	1.5	25
12	Removal of the Alizarin Red S Anionic Dye Using Graphene Nanocomposites: A study on Kinetics under Dynamic Conditions. Materials Today: Proceedings, 2019, 11, 392-397.	0.9	12
13	Magnetically active nanocomposite aerogels: preparation, characterization and application for water treatment. Journal of Porous Materials, 2022, 29, 545-557.	1.3	11
14	Adsorption of heavy metals from aqueous media on graphene-based nanomaterials. AIP Conference Proceedings, 2018, , .	0.3	9
15	Development of a Bentonite Clay/Carbon Nanotubes Composite for Liquid-Phase Adsorption. Materials Today: Proceedings, 2019, 11, 398-403.	0.9	7
16	Kinetics of liquid-phase adsorption of organic dye on activated carbons. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 782-785.	0.3	6
17	Graphene-Based Nanocomposites for Enhanced Pb²⁺ Adsorption. Nano Hybrids and Composites, 0, 13, 323-329.	0.8	6
18	Composite Graphene-Containing Porous Materials from Carbon for Capacitive Deionization of Water. Molecules, 2020, 25, 2620.	1.7	5

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19	The Adsorption of Malachite Green on Graphene Nanocomposites: A Study on Kinetics Under Dynamic Conditions. Materials Today: Proceedings, 2019, 11, 404-409.	0.9	4
20	Effect of ultrasound on catalytic system for synthesizing carbon nanomaterials. Theoretical Foundations of Chemical Engineering, 2014, 48, 493-496.	0.2	3
21	Kinetic Study on Pb(II) Adsorption from Aqueous Solutions on Carbon Materials. Nano Hybrids and Composites, 0, 13, 334-340.	0.8	3
22	Development of sorption materials based on iron(III)-chloride-modified graphene oxide for selective removal of organic pollutants from aquatic media. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 521-525.	1.0	3
23	Deposition of aerosol nanoparticles on filters coated with layer of carbon nanotubes. Colloid Journal, 2011, 73, 807-814.	0.5	2
24	Modification of an activated carbon pore surface by nanocarbon and study of its adsorption characteristics. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 505-509.	0.3	2
25	Kinetics of the Adsorption of Synthetic Dyes on a Polyhydroquinone/Graphene Carbon Nanocomposite. Journal of Physics: Conference Series, 2018, 1124, 081030.	0.3	2
26	The effect of fluorinated graphene nanoplatelets on the physical and mechanical properties in a polymer material. AIP Conference Proceedings, 2018, , .	0.3	2
27	Liquid-Phase Adsorption of an Organic Dye on Non-Modified and Nanomodified Activated Carbons: Equilibrium and Kinetic Analysis. Advanced Materials & Technologies, 2016, , 042-048.	0.2	2
28	Technology of Nanocomposites Preparation for Sorption Purification of Aqueous Media. Inorganic Materials: Applied Research, 2022, 13, 434-441.	0.1	2
29	Ecotoxicology of heavy metals: Liquid-phase extraction by nanosorbents. IOP Conference Series: Materials Science and Engineering, 2015, 98, 012023.	0.3	1
30	Preparation of TiO₂/Carbon Nanotubes Composites and a Study of their Adsorption on Organic Dyes. Nano Hybrids and Composites, 0, 13, 348-354.	0.8	1
31	Graphene materials for lead (II) extraction: an equilibrium study. MATEC Web of Conferences, 2017, 129, 06022.	0.1	1
32	A nanostructured composite polyhydroquinone/graphene oxide sorbent: synthesis and physical-chemical properties. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 40-44.	1.0	1
33	New Carbon Nanomaterials for Water Purification from Heavy Metals. , 2019, , 393-412.		1
34	Kinetic characteristics of Cu (II) adsorption on nano(poly)-cumulene. AIP Conference Proceedings, 2017, , .	0.3	0
35	A setup for electrically controlled liquid-phase sorption of organic pollutants on nanostructured materials. MATEC Web of Conferences, 2017, 129, 06020.	0.1	0
36	Synthesis and Properties of a Polyamine-Cumulene/Carbon Nanotubes for Removing Harmful Substances from Aqueous Solutions. Journal of Physics: Conference Series, 2018, 1124, 081026.	0.3	0

#	Article	IF	Citations
37	Application of graphene-like nanomaterials as modifying composite structures for construction purposes. AIP Conference Proceedings, 2018, , .	0.3	0
38	Adsorption of the Methylene Blue Dye on Carbon Nanocomposites Under Dynamic Conditions: A Kinetic Study. Journal of Physics: Conference Series, 2018, 1124, 081029.	0.3	0
39	Sorption activity of nanostructured materials. International Journal of Nanotechnology, 2018, 15, 433.	0.1	0
40	An equilibrium study of the liquid-phase sorption of Lead (II) ions on nanoporous carbon materials. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 114-116.	0.2	0
41	Kinetics of the Cu(II) sorption from aqueous solutions by carbon nanomaterials. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 117-119.	0.2	0
42	A Cumulene/CNTs Nanocomposite for Removal of Organic Dyes from Aquatic Media. , 0, , .		0