Dmitri N Muraviev

List of Publications by Citations

62 papers	989 citations	17 h-index	28 g-index
65 ext. papers	1,040 ext. citations	4.5 avg, IF	3.79 L-index

#	Paper	IF	Citations
62	Stabilization of solvent-impregnated resin capacities by different techniques. *Reactive and Functional Polymers*, **1998**, 38, 259-268	4.6	66
61	Novel routes for inter-matrix synthesis and characterization of polymer stabilized metal nanoparticles for molecular recognition devices. *Sensors and Actuators B: Chemical*, **2006**, 118, 408-417	8.5	60
60	Kinetics and Mechanism of in situ Simultaneous Formation of Metal Nanoparticles in Stabilizing Polymer Matrix. *Journal of Nanoparticle Research*, **2003**, 5, 497-519	2.3	55
59	Ion Exchange on Resins with Temperature-Responsive Selectivity. 1. Ion-Exchange Equilibrium of Cu2+ and Zn2+ on Iminodiacetic and Aminomethylphosphonic Resins. *Analytical Chemistry*, **1995**, 67, 3028-3035	7.8	51
58	Separation and concentration of calcium and magnesium from sea water by carboxylic resins with temperature-induced selectivity. *Reactive and Functional Polymers*, **1996**, 28, 111-126	4.6	43
57	Superparamagnetic Ag@Co-Nanocomposites on Granulated Cation Exchange Polymeric Matrices with Enhanced Antibacterial Activity for the Environmentally Safe Purification of Water. *Advanced Functional Materials*, **2013**, 23, 2450-2458	15.6	42
56	Polymer-stabilized palladium nanoparticles for catalytic membranes: ad hoc polymer fabrication. *Nanoscale Research Letters*, **2011**, 6, 406	5	35
55	Characterization of fibrous polymer silver/cobalt nanocomposite with enhanced bactericide activity. *Langmuir*, **2012**, 28, 783-90	4	33
54	Environmentally-safe bimetallic Ag@Co magnetic nanocomposites with antimicrobial activity. *Chemical Communications*, **2011**, 47, 10464-6	5.8	33
53	SURFACE IMPREGNATED SULFONATE ION EXCHANGERS: PREPARATION, PROPERTIES AND APPLICATION. *Solvent Extraction and Ion Exchange*, **1998**, 16, 381-457	2.5	32
52	Intermatrix synthesis of polymer stabilized inorganic nanocatalyst with maximum accessibility for reactants. *Dalton Transactions*, **2010**, 39, 1751-7	4.3	29
51	Donnan-exclusion-driven distribution of catalytic ferromagnetic nanoparticles synthesized in polymeric fibers. *Dalton Transactions*, **2010**, 39, 2579-86	4.3	26
50	Intermatrix Synthesis of Polymer□Copper Nanocomposites with Tunable Parameters by Using Copper Comproportionation Reaction. *Chemistry of Materials*, **2010**, 22, 6616-6623	9.6	24
49	Intermatrix synthesis: easy technique permitting preparation of polymer-stabilized nanoparticles with desired composition and structure. *Nanoscale Research Letters*, **2011**, 6, 343	5	21
48	Novel strategies for preparation and characterization of functional polymer-metal nanocomposites for electrochemical applications. *Pure and Applied Chemistry*, **2008**, 80, 2425-2437	2.1	21
47	ION-EXCHANGE METHODS FOR ULTRA PURIFICATION OF INORGANIC, ORGANIC AND BIOLOGICAL SUBSTANCES. *Solvent Extraction and Ion Exchange*, **1998**, 16, 1-73	2.5	18
46	Donnan exclusion driven intermatrix synthesis of reusable polymer stabilized palladium nanocatalysts. *Catalysis Today*, **2012**, 193, 207-212	5.3	17

45	Ion exchange on resins with temperature-responsive selectivity III. Influence of complex formation stoichiometry on temperature dependence of resin selectivity. *Journal of Chromatography A*, **2000**, 868, 143-52	4.5	17
44	Intermatrix Synthesis as a rapid, inexpensive and reproducible methodology for the in situ functionalization of nanostructured surfaces with quantum dots. *Applied Surface Science*, **2016**, 368, 417-426	6.7	16
43	Polyurethane foams doped with stable silver nanoparticles as bactericidal and catalytic materials for the effective treatment of water. *New Journal of Chemistry*, **2016**, 40, 3716-3725	3.6	16
42	Simple green routes for the customized preparation of sensitive carbon nanotubes/epoxy nanocomposite electrodes with functional metal nanoparticles. *RSC Advances*, **2014**, 4, 44517-44524	3.7	16
41	Seawater as Auxiliary Reagent in Dual-Temperature Ion-Exchange Processing of Acidic Mine Waters. *Environmental Science & Technology*, **1997**, 31, 379-383	10.3	16
40	ION-EXCHANGE ISOTHERMAL SUPERSATURATION. *Solvent Extraction and Ion Exchange*, **1998**, 16, 151-221	2.5	16
39	Application of the reagentless dual-temperature ion-exchange technique to a selective separation and concentration of copper versus aluminum from acidic mine waters. *Hydrometallurgy*, **1997**, 44, 331-346	4	15
38	APPLICATION OF EXTRACTION AND ION EXCHANGE CHROMATOGRAPHIC TECHNIQUES FOR THE SEPARATION OF METAL ION MIXTURES: PROBLEMS AND PERSPECTIVES. *Solvent Extraction and Ion Exchange*, **2000**, 18, 753-778	2.5	15
37	Uncommon patterns in Nafion films loaded with silver nanoparticles. *Chemical Communications*, **2014**, 50, 4693-5	5.8	13
36	Morphological changes of gel-type functional polymers after intermatrix synthesis of polymer stabilized silver nanoparticles. *Nanoscale Research Letters*, **2013**, 8, 255	5	13
35	Aqua-Impregnated Resins. 1. Mass Transfer Active Interfaces in Bi- and Triphase Systems Involving Solid Polymer and Two Immiscible Liquid Phases. *Langmuir*, **1997**, 13, 4915-4922	4	13
34	Clean Ion-Exchange Technologies. 2. Recovery of High-Purity Magnesium Compounds from Seawater by an Ion-Exchange Isothermal Supersaturation Technique. *Industrial & Engineering Chemistry Research*, **1998**, 37, 2496-2501	3.9	13
33	Clean Ion-Exchange Technologies. I. Synthesis of Chlorine-Free Potassium Fertilizers by an Ion-Exchange Isothermal Supersaturation Technique. *Industrial & Engineering Chemistry Research*, **1998**, 37, 1950-1955	3.9	13
32	CdS quantum dots as a scattering nanomaterial of carbon nanotubes in polymeric nanocomposite sensors for microelectrode array behavior. *Journal of Materials Science*, **2016**, 51, 1610-1619	4.3	12
31	Dynamics of Ion Exchange in Supersaturated Solutions. *Langmuir*, **1997**, 13, 7186-7191	4	12
30	Ion exchange on resins with temperature-responsive selectivity. *Journal of Chromatography A*, **1998**, 802, 251-261	4.5	12
29	Extractant Assisted Synthesis of Polymer Stabilized Platinum and Palladium Metal Nanoparticles for Sensor Applications. *Solvent Extraction and Ion Exchange*, **2006**, 24, 731-745	2.5	12
28	Peculiarities of the Dynamics of Ion Exchange in Supersaturated Solutions and Colloid Systems. *Langmuir*, **2003**, 19, 10852-10856	4	10

27	Intermatrix synthesis of monometallic and magnetic metal/metal oxide nanoparticles with bactericidal activity on anionic exchange polymers. *RSC Advances*, **2012**, 2, 4596	3.7	9
26	DUAL-TEMPERATURE ION EXCHANGE FRACTIONATION. *Solvent Extraction and Ion Exchange*, **1999**, 17, 767-849	2.5	9
25	Aqua-Impregnated Resins. 2. Separation of Polyvalent Metal Ions on Iminodiacetic and Polyacrylic Resins Using Bis(2-ethylhexyl) Phosphoric and Bis(2-ethylhexyl) Dithiophosphoric Acids as Organic Eluents. *Analytical Chemistry*, **1999**, 71, 4866-73	7.8	9
24	Aqua-impregnated resins: hydrogen-deuterium exchange on trimethylamine borane in an ion-exchange column. *Reactive & Functional Polymers*, **1994**, 22, 55-63		9
23	Intermatrix synthesis of Ag, AgAu and Au nanoparticles by the galvanic replacement strategy for bactericidal and electrocatalytically active nanocomposites. *New Journal of Chemistry*, **2016**, 40, 10344-10352	3.6	8
22	Separation of Zinc and Bismuth by Facilitated Transport through Activated Composite Membranes. *Solvent Extraction and Ion Exchange*, **2006**, 24, 565-587	2.5	8
21	Membrane-assisted deuterium-hydrogen exchange reaction on (trimethylamine)borane. *The Journal of Physical Chemistry*, **1993**, 97, 967-971		8
20	Ion Exchange-Assisted Synthesis of Polymer Stabilized Metal Nanoparticles. *Ion Exchange and Solvent Extraction*, **2011**, 1-44		7
19	Intermatrix synthesis of polymer-stabilized PGM@Cu core–shell nanoparticles with enhanced electrocatalytic properties. *Reactive and Functional Polymers*, **2011**, 71, 916-924	4.6	7
18	Ion exchange on resins with temperature-responsive selectivity IV. Influence of solution and column parameters on efficiency of reagentless separation of copper and zinc using thermo-induced concentration waves technique. *Journal of Chromatography A*, **2000**, 867, 57-69	4.5	7
17	Hydrolysis of (trimethylamine)borane with ion-exchange resins: effect of ionic surfactants. *The Journal of Physical Chemistry*, **1993**, 97, 13927-13930		7
16	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. *Solvent Extraction and Ion Exchange*, **2014**, 32, 301-315	2.5	6
15	Clean Ion-Exchange Technologies. 3. Temperature-Enhanced Conversion of Potassium Chloride and Lime Milk into Potassium Hydroxide on a Carboxylic Ion Exchanger. *Industrial & Engineering Chemistry Research*, **1999**, 38, 4409-4416	3.9	6
14	Dual-Temperature Ion-Exchange Separation of Copper and Zinc by Different Techniques. *Separation Science and Technology*, **1997**, 32, 849-866	2.5	5
13	Tandem Ion-Exchange Fractionation: New Preparative Mode for Separation of Multicomponent Ionic Mixtures. *Analytical Chemistry*, **1997**, 69, 4234-4241	7.8	5
12	KINETICS OF RELEASE OF CALCIUM AND FLUORIDE IONS FROM ION-EXCHANGE RESINS IN ARTIFICIAL SALIVA. *Solvent Extraction and Ion Exchange*, **2000**, 18, 345-374	2.5	4
11	Stability and ion exchange properties of amberlite XAD-2 impregnated with dinonylnaphthalene sulfonic acid. *Reactive Polymers, Ion Exchangers, Sorbents*, **1988**, 8, 97-102		4
10	Chapter 2 Integrated separation systems. *Comprehensive Analytical Chemistry*, **2003**, 39, 37-79	1.9	3

9	AQUA-IMPREGNATED RESINS AS NEW DUAL-FUNCTION DEUTERATING AGENT. *Separation Science and Technology*, **2001**, 36, 2087-2119	2.5	2
8	Potentiometric and Laser-Acoustic Study of Aminecarboxylate Interaction of Amino Acid Molecules. *Langmuir*, **1998**, 14, 1822-1828	4	2
7	Identification of Amino Acids Exhibiting the Ion-Exchange Isothermal Supersaturation Effect. *Langmuir*, **1998**, 14, 4169-4174	4	2
6	Hydrolysis of trimethylamine borane in the presence of liquid and solid (polymeric) acids. *Reactive and Functional Polymers*, **1996**, 29, 185-191	4.6	2
5	Activity-tunable nanocomposites based on dissolution and in situ recrystallization of nanoparticles on ion exchange resins. *RSC Advances*, **2015**, 5, 89971-89975	3.7	1
4	Ion-Exchange Methods For Ultra Purification Of Inorganic, Organic And Biological Substances **1999**,		1
3	Ion-Exchange Isothermal Supersaturation **1999**,		1
2	Hydrolysis of trimethylamine borane in the presence of liquid and solid (polymeric) acids. *Reactive and Functional Polymers*, **1996**, 31, 187-193	4.6	
1	Self-oriented Ag-based polycrystalline cubic nanostructures through polymer stabilization. *Nanotechnology*, **2016**, 27, 425603	3.4	