

Dmitri N Muraviev

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.

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	Intermatrix synthesis of Ag, AgAu and Au nanoparticles by the galvanic replacement strategy for bactericidal and electrocatalytically active nanocomposites. <i>New Journal of Chemistry</i> , 2016 , 40, 10344-10352	3.6	8
61	CdS quantum dots as a scattering nanomaterial of carbon nanotubes in polymeric nanocomposite sensors for microelectrode array behavior. <i>Journal of Materials Science</i> , 2016 , 51, 1610-1619	4.3	12
60	Intermatrix Synthesis as a rapid, inexpensive and reproducible methodology for the in situ functionalization of nanostructured surfaces with quantum dots. <i>Applied Surface Science</i> , 2016 , 368, 417-426	6.7	16
59	Polyurethane foams doped with stable silver nanoparticles as bactericidal and catalytic materials for the effective treatment of water. <i>New Journal of Chemistry</i> , 2016 , 40, 3716-3725	3.6	16
58	Self-oriented Ag-based polycrystalline cubic nanostructures through polymer stabilization. <i>Nanotechnology</i> , 2016 , 27, 425603	3.4	
57	Activity-tunable nanocomposites based on dissolution and in situ recrystallization of nanoparticles on ion exchange resins. <i>RSC Advances</i> , 2015 , 5, 89971-89975	3.7	1
56	Simple green routes for the customized preparation of sensitive carbon nanotubes/epoxy nanocomposite electrodes with functional metal nanoparticles. <i>RSC Advances</i> , 2014 , 4, 44517-44524	3.7	16
55	Uncommon patterns in Nafion films loaded with silver nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 4693-5	5.8	13
54	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. <i>Solvent Extraction and Ion Exchange</i> , 2014 , 32, 301-315	2.5	6
53	Morphological changes of gel-type functional polymers after intermatrix synthesis of polymer stabilized silver nanoparticles. <i>Nanoscale Research Letters</i> , 2013 , 8, 255	5	13
52	Superparamagnetic Ag@Co-Nanocomposites on Granulated Cation Exchange Polymeric Matrices with Enhanced Antibacterial Activity for the Environmentally Safe Purification of Water. <i>Advanced Functional Materials</i> , 2013 , 23, 2450-2458	15.6	42
51	Donnan exclusion driven intermatrix synthesis of reusable polymer stabilized palladium nanocatalysts. <i>Catalysis Today</i> , 2012 , 193, 207-212	5.3	17
50	Characterization of fibrous polymer silver/cobalt nanocomposite with enhanced bactericide activity. <i>Langmuir</i> , 2012 , 28, 783-90	4	33
49	Intermatrix synthesis of monometallic and magnetic metal/metal oxide nanoparticles with bactericidal activity on anionic exchange polymers. <i>RSC Advances</i> , 2012 , 2, 4596	3.7	9
48	Ion Exchange-Assisted Synthesis of Polymer Stabilized Metal Nanoparticles. <i>Ion Exchange and Solvent Extraction</i> , 2011 , 1-44		7
47	Intermatrix synthesis: easy technique permitting preparation of polymer-stabilized nanoparticles with desired composition and structure. <i>Nanoscale Research Letters</i> , 2011 , 6, 343	5	21
46	Polymer-stabilized palladium nanoparticles for catalytic membranes: ad hoc polymer fabrication. <i>Nanoscale Research Letters</i> , 2011 , 6, 406	5	35

45	Environmentally-safe bimetallic Ag@Co magnetic nanocomposites with antimicrobial activity. <i>Chemical Communications</i> , 2011 , 47, 10464-6	5.8	33
44	Intermatrix synthesis of polymer-stabilized PGM@Cu core-shell nanoparticles with enhanced electrocatalytic properties. <i>Reactive and Functional Polymers</i> , 2011 , 71, 916-924	4.6	7
43	Intermatrix Synthesis of Polymer-Copper Nanocomposites with Tunable Parameters by Using Copper Comproportionation Reaction. <i>Chemistry of Materials</i> , 2010 , 22, 6616-6623	9.6	24
42	Intermatrix synthesis of polymer stabilized inorganic nanocatalyst with maximum accessibility for reactants. <i>Dalton Transactions</i> , 2010 , 39, 1751-7	4.3	29
41	Donnan-exclusion-driven distribution of catalytic ferromagnetic nanoparticles synthesized in polymeric fibers. <i>Dalton Transactions</i> , 2010 , 39, 2579-86	4.3	26
40	Novel strategies for preparation and characterization of functional polymer-metal nanocomposites for electrochemical applications. <i>Pure and Applied Chemistry</i> , 2008 , 80, 2425-2437	2.1	21
39	Novel routes for inter-matrix synthesis and characterization of polymer stabilized metal nanoparticles for molecular recognition devices. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 408-417	8.5	60
38	Separation of Zinc and Bismuth by Facilitated Transport through Activated Composite Membranes. <i>Solvent Extraction and Ion Exchange</i> , 2006 , 24, 565-587	2.5	8
37	Extractant Assisted Synthesis of Polymer Stabilized Platinum and Palladium Metal Nanoparticles for Sensor Applications. <i>Solvent Extraction and Ion Exchange</i> , 2006 , 24, 731-745	2.5	12
36	Chapter 2 Integrated separation systems. <i>Comprehensive Analytical Chemistry</i> , 2003 , 39, 37-79	1.9	3
35	Kinetics and Mechanism of in situ Simultaneous Formation of Metal Nanoparticles in Stabilizing Polymer Matrix. <i>Journal of Nanoparticle Research</i> , 2003 , 5, 497-519	2.3	55
34	Peculiarities of the Dynamics of Ion Exchange in Supersaturated Solutions and Colloid Systems. <i>Langmuir</i> , 2003 , 19, 10852-10856	4	10
33	AQUA-IMPREGNATED RESINS AS NEW DUAL-FUNCTION DEUTERATING AGENT. <i>Separation Science and Technology</i> , 2001 , 36, 2087-2119	2.5	2
32	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. <i>Journal of Chromatography A</i> , 2000 , 867, 57-69	4.5	7
31	Ion exchange on resins with temperature-responsive selectivity III. Influence of complex formation stoichiometry on temperature dependence of resin selectivity. <i>Journal of Chromatography A</i> , 2000 , 868, 143-52	4.5	17
30	KINETICS OF RELEASE OF CALCIUM AND FLUORIDE IONS FROM ION-EXCHANGE RESINS IN ARTIFICIAL SALIVA. <i>Solvent Extraction and Ion Exchange</i> , 2000 , 18, 345-374	2.5	4
29	APPLICATION OF EXTRACTION AND ION EXCHANGE CHROMATOGRAPHIC TECHNIQUES FOR THE SEPARATION OF METAL ION MIXTURES: PROBLEMS AND PERSPECTIVES. <i>Solvent Extraction and Ion Exchange</i> , 2000 , 18, 753-778	2.5	15
28	DUAL-TEMPERATURE ION EXCHANGE FRACTIONATION. <i>Solvent Extraction and Ion Exchange</i> , 1999 , 17, 767-849	2.5	9

27	Clean Ion-Exchange Technologies. 3. Temperature-Enhanced Conversion of Potassium Chloride and Lime Milk into Potassium Hydroxide on a Carboxylic Ion Exchanger. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 4409-4416	3.9	6
26	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. <i>Analytical Chemistry</i> , 1999 , 71, 4866-73	7.8	9
25	Ion-Exchange Methods For Ultra Purification Of Inorganic, Organic And Biological Substances 1999 ,		1
24	Ion-Exchange Isothermal Supersaturation 1999 ,		1
23	Ion exchange on resins with temperature-responsive selectivity. <i>Journal of Chromatography A</i> , 1998 , 802, 251-261	4.5	12
22	Stabilization of solvent-impregnated resin capacities by different techniques. <i>Reactive and Functional Polymers</i> , 1998 , 38, 259-268	4.6	66
21	Clean Ion-Exchange Technologies. 2. Recovery of High-Purity Magnesium Compounds from Seawater by an Ion-Exchange Isothermal Supersaturation Technique. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 2496-2501	3.9	13
20	Clean Ion-Exchange Technologies. I. Synthesis of Chlorine-Free Potassium Fertilizers by an Ion-Exchange Isothermal Supersaturation Technique. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 1950-1955	3.9	13
19	Potentiometric and Laser-Acoustic Study of Aminocarboxylate Interaction of Amino Acid Molecules. <i>Langmuir</i> , 1998 , 14, 1822-1828	4	2
18	Identification of Amino Acids Exhibiting the Ion-Exchange Isothermal Supersaturation Effect. <i>Langmuir</i> , 1998 , 14, 4169-4174	4	2
17	SURFACE IMPREGNATED SULFONATE ION EXCHANGERS: PREPARATION, PROPERTIES AND APPLICATION. <i>Solvent Extraction and Ion Exchange</i> , 1998 , 16, 381-457	2.5	32
16	ION-EXCHANGE ISOTHERMAL SUPERSATURATION. <i>Solvent Extraction and Ion Exchange</i> , 1998 , 16, 151-221	5	16
15	ION-EXCHANGE METHODS FOR ULTRA PURIFICATION OF INORGANIC, ORGANIC AND BIOLOGICAL SUBSTANCES. <i>Solvent Extraction and Ion Exchange</i> , 1998 , 16, 1-73	2.5	18
14	Dual-Temperature Ion-Exchange Separation of Copper and Zinc by Different Techniques. <i>Separation Science and Technology</i> , 1997 , 32, 849-866	2.5	5
13	Seawater as Auxiliary Reagent in Dual-Temperature Ion-Exchange Processing of Acidic Mine Waters. <i>Environmental Science & Technology</i> , 1997 , 31, 379-383	10.3	16
12	Dynamics of Ion Exchange in Supersaturated Solutions. <i>Langmuir</i> , 1997 , 13, 7186-7191	4	12
11	Aqua-Impregnated Resins. 1. Mass Transfer Active Interfaces in Bi- and Triphase Systems Involving Solid Polymer and Two Immiscible Liquid Phases. <i>Langmuir</i> , 1997 , 13, 4915-4922	4	13
10	Tandem Ion-Exchange Fractionation: New Preparative Mode for Separation of Multicomponent Ionic Mixtures. <i>Analytical Chemistry</i> , 1997 , 69, 4234-4241	7.8	5

- 9 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 4.6 15
- 8 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
- 7 Hydrolysis of trimethylamine borane in the presence of liquid and solid (polymeric) acids. *Reactive and Functional Polymers*, **1996**, 31, 187-193 4.6
- 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 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
- 4 Aqua-impregnated resins: hydrogen-deuterium exchange on trimethylamine borane in an ion-exchange column. *Reactive & Functional Polymers*, **1994**, 22, 55-63 9
- 3 Membrane-assisted deuterium-hydrogen exchange reaction on (trimethylamine)borane. *The Journal of Physical Chemistry*, **1993**, 97, 967-971 8
- 2 Hydrolysis of (trimethylamine)borane with ion-exchange resins: effect of ionic surfactants. *The Journal of Physical Chemistry*, **1993**, 97, 13927-13930 7
- 1 Stability and ion exchange properties of amberlite XAD-2 impregnated with dinonylnaphthalene sulfonic acid. *Reactive Polymers, Ion Exchangers, Sorbents*, **1988**, 8, 97-102 4