

# Mariya V Edeleva

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

813  
citations

430754

18  
h-index

526166

27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Octahedral molybdenum cluster complexes with aromatic sulfonate ligands. Dalton Transactions, 2016, 45, 15427-15435.	1.6	62
2	On the synthesis and characterisation of luminescent hybrid particles: Mo <sub>6</sub> metal cluster complex/SiO <sub>2</sub> . RSC Advances, 2016, 6, 43367-43375.	1.7	48
3	Hydrogen transfer reaction in nitroxide mediated polymerization of methyl methacrylate: 2,2-diphenyl-1-phenylimino-2,3-dihydroindol-1-yl oxyl nitroxide (DPAIO) vs. TEMPO. Journal of Polymer Science Part A, 2008, 46, 6828-6842.	2.5	46
4	pH-Sensitive ON Bond Homolysis of Alkoxyamines of Imidazoline Series with Multiple Ionizable Groups As an Approach for Control of Nitroxide Mediated Polymerization. Journal of Organic Chemistry, 2011, 76, 5558-5573.	1.7	45
5	Water-soluble hybrid materials based on {Mo <sub>6</sub> X <sub>8</sub> } <sup>4+</sup> (X = Cl, Br, I) cluster complexes and sodium polystyrene sulfonate. New Journal of Chemistry, 2017, 41, 1670-1676.	1.4	44
6	Kinetic study of H atom transfer in imidazoline-, imidazolidine-, and pyrrolidine-based alkoxyamines: Consequences for nitroxide-mediated polymerization. Journal of Polymer Science Part A, 2009, 47, 6579-6595.	2.5	39
7	Characterization and cytotoxicity studies of thiol-modified polystyrene microbeads doped with [Mo <sub>6</sub> X <sub>8</sub> ](NO <sub>3</sub> ) <sub>6</sub> (X = Cl, Br, I). Polymers for Advanced Technologies, 2016, 27, 922-928.	1.6	35
8	Chemically Triggered ON Bond Homolysis in Alkoxyamines. Part 2: DFT Investigation and Application of the pH Effect on NMP. Macromolecular Rapid Communications, 2012, 33, 152-157.	2.0	34
9	Benchmarking Stochastic and Deterministic Kinetic Modeling of Bulk and Solution Radical Polymerization Processes by Including Six Types of Factors Two. Macromolecular Theory and Simulations, 2020, 29, 2000065.	0.6	32
10	Impact of side reactions on molar mass distribution, unsaturation level and branching density in solution free radical polymerization of n-butyl acrylate under well-defined lab-scale reactor conditions. Polymer Chemistry, 2021, 12, 2095-2114.	1.9	26
11	ON bond homolysis of alkoxyamines triggered by paramagnetic copper(II) salts. Inorganic Chemistry Frontiers, 2016, 3, 1464-1472.	3.0	24
12	H transfer reaction during decomposition of N-(2-methylpropyl)-N-(1-diethylphosphono-2,2-dimethylpropyl)oxyl (SG1)-based alkoxyamines. Journal of Polymer Science Part A, 2013, 51, 1323-1336.	2.5	23
13	Cost-efficient modeling of distributed molar mass and topological variations in graft copolymer synthesis by upgrading the method of moments. AIChE Journal, 2022, 68, .	1.8	23
14	Jacket temperature regulation allowing well-defined non-adiabatic lab-scale solution free radical polymerization of acrylates. Reaction Chemistry and Engineering, 2021, 6, 1053-1069.	1.9	22
15	Roadmap for Monomer Conversion and Chain Length-Dependent Termination Reactivity Algorithms in Kinetic Monte Carlo Modeling of Bulk Radical Polymerization. Industrial & Engineering Chemistry Research, 2020, 59, 22422-22439.	1.8	21
16	Controlled/living polymerization of methyl methacrylate using new sterically hindered imidazoline nitroxides prepared via intramolecular 1,3-dipolar cycloaddition reaction. Journal of Polymer Science Part A, 2014, 52, 929-943.	2.5	20
17	pH-Sensitive ON Bond Homolysis of Alkoxyamines of Imidazoline Series: A Theoretical Study. Journal of Physical Chemistry B, 2014, 118, 5542-5550.	1.2	20
18	How intramolecular hydrogen bonding (IHB) controls the ON bond homolysis in alkoxyamines. Organic and Biomolecular Chemistry, 2017, 15, 8425-8439.	1.5	20

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19	Translating Simulated Chain Length and Molar Mass Distributions in Chain-Growth Polymerization for Experimental Comparison and Mechanistic Insight. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100008.	0.6	19
20	Smart Control of Nitroxide-Mediated Polymerization Initiators™ Reactivity by pH, Complexation with Metals, and Chemical Transformations. <i>Materials</i> , 2019, 12, 688.	1.3	18
21	Connecting Gas-Phase Computational Chemistry to Condensed Phase Kinetic Modeling: The State-of-the-Art. <i>Polymers</i> , 2021, 13, 3027.	2.0	18
22	Multi-scale reactive extrusion modelling approaches to design polymer synthesis, modification and mechanical recycling. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 245-263.	1.9	18
23	Zinc(II) Hexafluoroacetylacetonate Complexes of Alkoxyamines: NMR and Kinetic Investigations. First Step for a New Way to Prepare Hybrid Materials.. <i>ChemistrySelect</i> , 2017, 2, 3584-3593.	0.7	17
24	Coordination-Initiated Nitroxide-Mediated Polymerization (CI-NMP). <i>Australian Journal of Chemistry</i> , 2018, 71, 334.	0.5	17
25	Trityl-based alkoxyamines as NMP controllers and spin-labels. <i>Polymer Chemistry</i> , 2016, 7, 6490-6499.	1.9	16
26	Versatile approach to activation of alkoxyamine homolysis by 1,3-dipolar cycloaddition for efficient and safe nitroxide mediated polymerization. <i>Chemical Communications</i> , 2019, 55, 190-193.	2.2	15
27	One-pot synthesis of {Mo6 I8 }4+ -doped polystyrene microspheres via a free radical dispersion copolymerisation reaction. <i>Polymer International</i> , 2017, 66, 1906-1912.	1.6	12
28	Chemically Induced Dynamic Nuclear Polarization during the Thermolysis of Alkoxyamines: A New Approach to Detect the Occurrence of H-Transfer Reactions. <i>Polymers</i> , 2010, 2, 364-377.	2.0	9
29	Exploiting (Multicomponent) Semibatch and Jacket Temperature Procedures to Safely Tune Molecular Properties for Solution Free Radical Polymerization of <i>n</i> -Butyl Acrylate. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100024.	0.6	8
30	Radical polymerization of radical-labeled monomers: The triarylmethyl-based radical monomer as an example. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2656-2664.	2.5	7
31	Lifting the Sustainability of Modified Pet-Based Multilayer Packaging Material with Enhanced Mechanical Recycling Potential and Processing. <i>Polymers</i> , 2022, 14, 196.	2.0	7
32	Procedures and Guidelines for Inputting and Output Smoothing of Kinetic Monte Carlo Distributions. <i>Advanced Theory and Simulations</i> , 2022, 5, .	1.3	7
33	The effect of the oxophilic Tb(III) cation on C ON bond homolysis in alkoxyamines. <i>Inorganic Chemistry Communication</i> , 2018, 91, 5-7.	1.8	6
34	How intramolecular coordination bonding (ICB) controls the homolysis of the C-ON bond in alkoxyamines. <i>RSC Advances</i> , 2019, 9, 25776-25789.	1.7	6
35	Enhanced spin capturing polymerization: Numerical investigation of mechanism. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2546-2556.	2.5	4
36	In Silico Screening To Achieve Fast Lab-Scale Nitroxide-Mediated Polymerization of <i>n</i> -Butyl Acrylate with Maximal Control over Macromolecular Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 16981-16992.	1.8	4

#	ARTICLE	IF	CITATIONS
37	Setting the Optimal Laser Power for Sustainable Powder Bed Fusion Processing of Elastomeric Polyesters: A Combined Experimental and Theoretical Study. <i>Materials</i> , 2022, 15, 385.	1.3	4
38	Differences and similarities between mono-, bi- or tetrafunctional initiated cationic ring-opening polymerization of 2-oxazolines. <i>Polymer Chemistry</i> , 2022, 13, 861-876.	1.9	3
39	Increasing the Sustainability of the Hybrid Mold Technique through Combined Insert Polymeric Material and Additive Manufacturing Method Design. <i>Sustainability</i> , 2022, 14, 877.	1.6	3
40	Kinetics of copolymerization of methyl methacrylate and divinyl sulfide in the presence of initiating systems. <i>Polymer Science - Series B</i> , 2009, 51, 438-443.	0.3	2
41	Dual-initiator alkoxyamines with an N-tert-butyl-N-(1-diethylphosphono-2,2-dimethylpropyl) nitroxide moiety for preparation of block co-polymers. <i>RSC Advances</i> , 2017, 7, 4993-5001.	1.7	2
42	Photochemistry of tris(2,3,5,6-tetrathiaaryl)methyl radicals in various solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1019-1026.	1.3	2
43	Combining Chromatographic, Rheological, and Mechanical Analysis to Study the Manufacturing Potential of Acrylic Blends into Polyacrylic Casts. <i>Materials</i> , 2021, 14, 6939.	1.3	2
44	One-Pot Synthesis of Gelatinized Maize Starch-Graft-Polyacrylic Acid Films. <i>Advanced Materials Research</i> , 2014, 1040, 331-336.	0.3	1
45	NMR and EPR Study of Homolysis of Diastereomeric Alkoxyamines. <i>Molecules</i> , 2020, 25, 5080.	1.7	1
46	Multifrequency Nuclear Magnetic Resonance as an Efficient Tool To Investigate Heterospin Complexes in Solutions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1343-1352.	1.1	1
47	Fluorinated initiators, mediators, and solvents in controlled radical polymerization. , 2020, , 69-88.		0
48	Testing the PTT Rheological Model for Extrusion of Virgin and Composite Materials in View of Enhanced Conductivity and Mechanical Recycling Potential. <i>Processes</i> , 2021, 9, 1969.	1.3	0