

Elena Yu Kramarenko

List of Publications by Year in descending order

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147726
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86
docs citations

86
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	New Composite Elastomers with Giant Magnetic Response. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 336-341.	1.7	159
2	Experimental study of the magnetic field enhanced Payne effect in magnetorheological elastomers. <i>Soft Matter</i> , 2014, 10, 8765-8776.	1.2	141
3	Weakly Charged Polyelectrolytes: Collapse Induced by Extra Ionization. <i>Macromolecules</i> , 1996, 29, 681-685.	2.2	136
4	Polyelectrolyte/Ionomer behavior in polymer gel collapse. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 45-59.	0.6	113
5	Hysteresis of the viscoelastic properties and the normal force in magnetically and mechanically soft magnetoactive elastomers: Effects of filler composition, strain amplitude and magnetic field. <i>Polymer</i> , 2015, 76, 191-202.	1.8	108
6	Magnetic and viscoelastic response of elastomers with hard magnetic filler. <i>Smart Materials and Structures</i> , 2015, 24, 035002.	1.8	107
7	Strong magnetodielectric effects in magnetorheological elastomers. <i>Soft Matter</i> , 2013, 9, 11318.	1.2	90
8	Collapse of polyelectrolyte networks induced by their interaction with an oppositely charged surfactant. Theory. <i>Die Makromolekulare Chemie Theory and Simulations</i> , 1992, 1, 105-118.	1.0	89
9	Collapse of Polyelectrolyte Macromolecules Revisited. <i>Macromolecules</i> , 1997, 30, 3383-3388.	2.2	85
10	Molecular dynamics simulation study of adsorption of polymer chains with variable degree of rigidity. I. Static properties. <i>Journal of Chemical Physics</i> , 1996, 104, 4806-4813.	1.2	73
11	Effect of a homogeneous magnetic field on the mechanical behavior of soft magnetic elastomers under compression. <i>Polymer Science - Series A</i> , 2006, 48, 138-145.	0.4	67
12	Stoichiometric polyelectrolyte complexes of ionic block copolymers and oppositely charged polyions. <i>Journal of Chemical Physics</i> , 2006, 125, 194902.	1.2	54
13	Photosensitive microgels containing azobenzene surfactants of different charges. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 108-117.	1.3	52
14	Polyelectrolyte networks as highly sensitive polymers. <i>Polymer Science - Series C</i> , 2006, 48, 1-20.	0.8	51
15	Fractional rheological models of dynamic mechanical behavior of magnetoactive elastomers in magnetic fields. <i>Polymer</i> , 2018, 142, 316-329.	1.8	51
16	Polyelectrolyte Gel Swelling and Conductivity vs Counterion Type, Cross-Linking Density, and Solvent Polarity. <i>Macromolecules</i> , 2016, 49, 6630-6643.	2.2	50
17	pH-Induced Amphiphilicity-Reversing Schizophrenic Aggregation by Alternating Copolymers. <i>Macromolecules</i> , 2019, 52, 8346-8358.	2.2	50
18	Magnetodielectric effect in magnetoactive elastomers: Transient response and hysteresis. <i>Polymer</i> , 2017, 127, 119-128.	1.8	49

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19	A three-state model for counterions in a dilute solution of weakly charged polyelectrolytes. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 249-256.	0.6	43
20	The Influence of Ion Pair Formation on the Phase Behavior of Polyelectrolyte Solutions. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 462.	0.6	43
21	Magnetoactive elastomer based on magnetically hard filler: Synthesis and study of viscoelastic and damping properties. <i>Polymer Science - Series A</i> , 2014, 56, 603-613.	0.4	43
22	Conformational Behavior of a Single Polyelectrolyte Chain with Bulky Counterions. <i>Macromolecules</i> , 2016, 49, 1103-1110.	2.2	40
23	Transient magnetorheological response of magnetoactive elastomers to step and pyramid excitations. <i>Soft Matter</i> , 2016, 12, 2901-2913.	1.2	38
24	A fractional calculus approach to modeling rheological behavior of soft magnetic elastomers. <i>Polymer</i> , 2016, 92, 179-188.	1.8	37
25	Controllable hydrophobicity of magnetoactive elastomer coatings. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 268-271.	1.0	36
26	Microphase Separation in Complex Coacervate Due to Incompatibility between Polyanion and Polycation. <i>Macromolecules</i> , 2018, 51, 6587-6601.	2.2	36
27	Surface relief of magnetoactive elastomeric films in a homogeneous magnetic field: molecular dynamics simulations. <i>Soft Matter</i> , 2019, 15, 175-189.	1.2	36
28	Magnetorheological response of highly filled magnetoactive elastomers from perspective of mechanical energy density: Fractal aggregates above the nanometer scale?. <i>Physical Review E</i> , 2017, 95, 062501.	0.8	35
29	New Type of Swelling Behavior upon Gel Ionization: Theory vs Experiment. <i>Macromolecules</i> , 2013, 46, 9359-9367.	2.2	34
30	An unprecedented jump in the viscosity of high-generation carbosilane dendrimer melts. <i>Polymer</i> , 2018, 146, 1-5.	1.8	33
31	Dissipative particle dynamics for systems with high density of charges: Implementation of electrostatic interactions. <i>Journal of Chemical Physics</i> , 2016, 145, 174101.	1.2	32
32	Formation of Salt Bonds in Polyampholyte Chains. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 780-788.	0.6	31
33	Viscoelastic Properties of Magnetorheological Elastomers for Damping Applications. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1116-1125.	1.7	31
34	Giant Extensional Strain of Magnetoactive Elastomeric Cylinders in Uniform Magnetic Fields. <i>Materials</i> , 2020, 13, 3297.	1.3	31
35	Magnetodeformational effect of the magnetoactive elastomer and its possible applications. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012031.	0.3	30
36	Highly Responsive Magnetoactive Elastomers. , 2018, , 221-245.		30

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37	Stoichiometric polyelectrolyte complexes as comb copolymers. <i>Journal of Chemical Physics</i> , 2005, 122, 084902.	1.2	28
38	An interplay of electrostatic and excluded volume interactions in the conformational behavior of a dipolar chain: theory and computer simulations. <i>Soft Matter</i> , 2018, 14, 3232-3235.	1.2	27
39	Micelle formation in a dilute solution of block copolymers with a polyelectrolyte block complexed with oppositely charged linear chains. <i>Journal of Chemical Physics</i> , 2003, 119, 4945-4952.	1.2	26
40	Insight into the Structure of Polybutylcarbosilane Dendrimer Melts via Extensive Molecular Dynamics Simulations. <i>Macromolecules</i> , 2017, 50, 432-445.	2.2	25
41	Communication: Light driven remote control of microgels' size in the presence of photosensitive surfactant: Complete phase diagram. <i>Journal of Chemical Physics</i> , 2017, 147, 031101.	1.2	22
42	Magnetoactive elastomer as an element of a magnetic retina fixator. <i>Smart Materials and Structures</i> , 2017, 26, 095054.	1.8	22
43	Development of magnetoactive elastomers for sealing eye retina detachments. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47425.	1.3	22
44	Low-frequency rheology of magnetically controlled elastomers with isotropic structure. <i>Polymer Science - Series A</i> , 2010, 52, 1344-1354.	0.4	21
45	Two regions of microphase separation in ion-containing polymer solutions. <i>Soft Matter</i> , 2017, 13, 6831-6844.	1.2	21
46	Effect of counterion excluded volume on the conformational behavior of polyelectrolyte chains. <i>Soft Matter</i> , 2018, 14, 1474-1481.	1.2	21
47	Tuning the Volume Phase Transition Temperature of Microgels by Light. <i>Advanced Functional Materials</i> , 2022, 32, 2107946.	7.8	21
48	Electrostatically Stabilized Microphase Separation in Blends of Oppositely Charged Polyelectrolytes. <i>Macromolecules</i> , 2019, 52, 7167-7174.	2.2	18
49	Magnetodielectric Response of Soft Magnetoactive Elastomers: Effects of Filler Concentration and Measurement Frequency. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2230.	1.8	18
50	Hybrid Polycarbosilane-Siloxane Dendrimers: Synthesis and Properties. <i>Polymers</i> , 2021, 13, 606.	2.0	17
51	Magnetically Active Silicone Elastomers: Twenty Years of Development. <i>Ineos Open</i> , 2020, 2, 178-184.	0.7	16
52	Effect of formation of ion pairs on the stability of stoichiometric block ionomer complexes. <i>Polymer Science - Series A</i> , 2007, 49, 1053-1063.	0.4	14
53	Field-induced surface deformation of magnetoactive elastomers with anisometric fillers: a single-particle model. <i>Soft Matter</i> , 2019, 15, 9507-9519.	1.2	13
54	Magnetic-field-induced stress in confined magnetoactive elastomers. <i>Soft Matter</i> , 2020, 16, 9047-9058.	1.2	13

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55	Molecular dynamics simulations of single siloxane dendrimers: Molecular structure and intramolecular mobility of terminal groups. <i>Journal of Chemical Physics</i> , 2018, 148, 014902.	1.2	12
56	Modification of carbonyl iron particles by carboxyl-containing polydimethylsiloxanes. <i>Russian Chemical Bulletin</i> , 2018, 67, 1639-1647.	0.4	12
57	Magnetoactive elastomers with controllable radio-absorbing properties. <i>Materials Today Communications</i> , 2019, 21, 100610.	0.9	12
58	A Comparative Study of Intramolecular Mobility of Single Siloxane and Carbosilane Dendrimers via Molecular Dynamics Simulations. <i>Polymers</i> , 2018, 10, 838.	2.0	11
59	Collapse of a polymer gel induced by complex formation with linear polymers. <i>Die Makromolekulare Chemie Theory and Simulations</i> , 1993, 2, 169-177.	1.0	10
60	Effects of generation number, spacer length and temperature on the structure and intramolecular dynamics of siloxane dendrimer melts: molecular dynamics simulations. <i>Soft Matter</i> , 2020, 16, 3792-3805.	1.2	10
61	Microphase Separation Induced by Complexation of Ionic/Non-Ionic Diblock Copolymers with Oppositely Charged Linear Chains. <i>Macromolecules</i> , 2010, 43, 2622-2629.	2.2	8
62	Effect of Counterion Size on the Structure of a Flexible Polyelectrolyte Chain in Low-Polar Solvents. <i>Polymer Science - Series C</i> , 2018, 60, 37-48.	0.8	8
63	Conformational behavior of a semiflexible dipolar chain with a variable relative size of charged groups via molecular dynamics simulations. <i>Soft Matter</i> , 2019, 15, 6073-6085.	1.2	8
64	Unusual Nanostructured Morphologies Enabled by Interpolyelectrolyte Complexation of Polyions Bearing Incompatible Nonionic Segments. <i>Macromolecules</i> , 2020, 53, 10754-10764.	2.2	7
65	Low-Modulus Elastomeric Matrices for Magnetoactive Composites with a High Magnetic Field Response. <i>Polymer Science - Series A</i> , 2020, 62, 383-391.	0.4	7
66	Dielectric Spectroscopy of Hybrid Magnetoactive Elastomers. <i>Polymers</i> , 2021, 13, 2002.	2.0	7
67	Polymerization-Induced Self-Assembly (PISA) Generated Cholesterol-Based Block Copolymer Nano-Objects in a Nonpolar Solvent: Combined Experimental and Simulation Study. <i>Macromolecules</i> , 2022, 55, 1139-1152.	2.2	7
68	Rheological properties of nonfunctional derivatives of hyperbranched polycarbosilanes. <i>Russian Chemical Bulletin</i> , 2015, 64, 2145-2151.	0.4	6
69	Polymer gels with associating side chains and their interaction with surfactants. <i>Journal of Chemical Physics</i> , 2016, 144, 184902.	1.2	6
70	Regulating Tissue-Mimetic Mechanical Properties of Bottlebrush Elastomers by Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38783-38791.	4.0	6
71	Effect of iron particles on dielectric properties of polydimethylsiloxane near crystallization and glass transition temperatures. <i>Polymer Science - Series B</i> , 2006, 48, 267-270.	0.3	5
72	Influence of the geometry on magnetic interactions in a retina fixator based on a magnetoactive elastomer seal. <i>Journal of Physics: Conference Series</i> , 2018, 994, 012002.	0.3	5

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73	Comb macromolecules with attracting functional groups in side chains. <i>Polymer Science - Series A</i> , 2007, 49, 1233-1241.	0.4	4
74	Electrophysical and acoustic properties of magnetic elastomers structured by an external magnetic field. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017, 81, 945-949.	0.1	4
75	Adsorption of Silicon-Containing Dendrimers: Effects of Chemical Composition, Structure, and Generation Number. <i>Polymers</i> , 2021, 13, 552.	2.0	4
76	Two contributions to the dielectric response of polar liquids. <i>Journal of Chemical Physics</i> , 2021, 154, 116101.	1.2	4
77	Effect of the Fraction and Size of Polar Groups on the Formation of Compact Conformations of a Polymer Chain with Variable Stiffness in Low-Polar Media. <i>Polymer Science - Series B</i> , 2019, 61, 704-714.	0.3	2
78	pH-Dependent Structure of Block Copolymer Micelles Featuring a Polyampholyte Corona: A Combined Experimental and Theoretical Approach. <i>Macromolecules</i> , 2021, 54, 1976-1991.	2.2	2
79	Interaction of two polyelectrolyte gels in solution of an oppositely charged surfactant. <i>Polymer Science - Series A</i> , 2007, 49, 1129-1136.	0.4	1
80	AB-Block Copolymer with Moving B Blocks as a Model for Interpolymer Complexes. <i>Macromolecular Theory and Simulations</i> , 2010, 19, 240-248.	0.6	1
81	Conformational transitions and helical structures of a dipolar chain in external electric fields. <i>Soft Matter</i> , 2021, 17, 1376-1387.	1.2	1
82	The Effect of Explicit Polarity on Conformational Behavior of a Single Polyelectrolyte Chain. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26296-26305.	1.3	1
83	Tuning the Volume Phase Transition Temperature of Microgels by Light (<i>Adv. Funct. Mater.</i> 2/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	1
84	Magnetorheological Fluids Based on Star-Shaped and Linear Polydimethylsiloxanes. <i>Polymer Science - Series A</i> , 2021, 63, 296-306.	0.4	0