Georges M Pavlov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of acetic acid concentration on the solubilization of chitosan. Polymer, 1999, 40, 7029-7032.	1.8	527
2	Solubilization of Chitosan in Strong Acid Medium. International Journal of Polymer Analysis and Characterization, 1999, 5, 267-276.	0.9	133
3	Partial specific volume and solvent interactions of amphipol A8-35. Analytical Biochemistry, 2004, 334, 318-334.	1.1	105
4	Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering. European Biophysics Journal, 2003, 32, 437-449.	1.2	99
5	Design and synthesis of new anionic "polymeric ionic liquids―with high charge delocalization. Polymer Chemistry, 2011, 2, 2609.	1.9	96
6	A Versatile Approach to Unimolecular Water-Soluble Carriers: ATRP of PEGMA with Hydrophobic Star-Shaped Polymeric Core Molecules as an Alternative for PEGylation. Macromolecules, 2009, 42, 1808-1816.	2.2	84
7	Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. Macromolecules, 2011, 44, 9792-9803.	2.2	84
8	Bis(trifluoromethylsulfonyl)amide based "polymeric ionic liquids― Synthesis, purification and peculiarities of structure–properties relationships. Electrochimica Acta, 2011, 57, 74-90.	2.6	84
9	Polyelectrolyte Complexes of DNA and Linear PEI: Formation, Composition and Properties. Langmuir, 2012, 28, 16167-16176.	1.6	67
10	Characterization of poly(methyl methacrylate) nanoparticles prepared by nanoprecipitation using analytical ultracentrifugation, dynamic light scattering, and scanning electron microscopy. Journal of Polymer Science Part A, 2010, 48, 3924-3931.	2.5	54
11	Hydrodynamic properties of poly(1-vinyl-2-pyrrolidone) molecules in dilute solution. Die Makromolekulare Chemie, 1990, 191, 2889-2899.	1.1	52
12	Size and average density spectra of macromolecules obtained from hydrodynamic data. European Physical Journal E, 2007, 22, 171-180.	0.7	47
13	Conformation parameters of linear macromolecules from velocity sedimentation and other hydrodynamic methods. Methods, 2011, 54, 124-135.	1.9	47
14	Conformation zoning of large molecules using the analytical ultracentrifuge. TrAC - Trends in Analytical Chemistry, 1997, 16, 401-405.	5.8	46
15	Hydrodynamic characteristics and equilibrium rigidity of pullulan molecules. International Journal of Biological Macromolecules, 1994, 16, 318-323.	3.6	41
16	π onjugated Donor and Donor–Acceptor Metalloâ€Polymers. Macromolecular Rapid Communications, 2010, 31, 868-874.	2.0	40
17	Strong Linear Polyelectrolytes in Solutions of Extreme Concentrations of One–One Valent Salt. Hydrodynamic Study. Macromolecules, 2014, 47, 2748-2758.	2.2	40
18	Hydrodynamic properties of cyclodextrin molecules in dilute solutions. European Biophysics Journal, 2010, 39, 371-379.	1.2	39

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#	Article	IF	CITATIONS
19	Molecular characteristics of poly(propylene imine) dendrimers as studied with translational diffusion and viscometry. Colloid and Polymer Science, 2002, 280, 416-423.	1.0	38
20	Hydrodynamic properties of carbohydrate-coated dendrimers. Carbohydrate Polymers, 1999, 38, 195-202.	5.1	35
21	Preparation, Cellular Internalization, and Biocompatibility of Highly Fluorescent PMMA Nanoparticles. Macromolecular Rapid Communications, 2012, 33, 1791-1797.	2.0	34
22	Nanoprecipitation of poly(methyl methacrylate)â€based nanoparticles: Effect of the molar mass and polymer behavior. Journal of Polymer Science Part A, 2012, 50, 2906-2913.	2.5	33
23	Sedimentation parameter of linear polymers. , 1995, , 101-108.		32
24	Amphiphilic star-shaped block copolymers as unimolecular drug delivery systems: investigations using a novel fungicide. Soft Matter, 2013, 9, 715-726.	1.2	32
25	Hyperbranched Poly(ethylene glycol) Copolymers: Absolute Values of the Molar Mass, Properties in Dilute Solution, and Hydrodynamic Homology. Macromolecules, 2015, 48, 5887-5898.	2.2	32
26	The concentration dependence of sedimentation for polysaccharides. European Biophysics Journal, 1997, 25, 385-397.	1.2	31
27	Examination and optimization of the self-assembly of biocompatible, polymeric nanoparticles by high-throughput nanoprecipitation. Soft Matter, 2011, 7, 5030.	1.2	31
28	Dilute solution properties of carboxymethylchitins in high ionic-strength solvent. Polymer, 1998, 39, 6951-6961.	1.8	30
29	Ruthenium(II) Metallo‣upramolecular Polymers of Clickâ€Derived Tridentate Ditopic Ligands. Macromolecular Rapid Communications, 2012, 33, 597-602.	2.0	29
30	Normalized scaling relations as a natural classification of linear macromolecules according to size. , 1999, , 76-80.		27
31	Size and shape of inulin in dimethyl sulphoxide solution. Carbohydrate Polymers, 1999, 38, 231-234.	5.1	27
32	Dilute solution properties of lactosylated polyamidoamine dendrimers and their structural characteristics. Polymer, 2001, 42, 3671-3678.	1.8	25
33	Conformational Parameters of Poly(<i>N</i> â€methylâ€ <i>N</i> â€vinylacetamide) Molecules Through the Hydrodynamic Characteristics Studies. Macromolecular Bioscience, 2010, 10, 790-797.	2.1	24
34	The sedimentation parameter of linear polymer molecules in absence of excluded volume effects. Acta Polymerica, 1988, 39, 107-111.	1.4	23
35	Determination of intrinsic viscosity of polyelectrolytes in salt-free solutions. Russian Journal of Applied Chemistry, 2006, 79, 1407-1412.	0.1	23
36	Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. Carbohydrate Polymers, 2000, 42, 123-131.	5.1	22

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37	Alternating terpyridineâ€endfunctionalized copolymers of styrene and diphenylethylene via anionic polymerization techniques: A detailed characterization study. Journal of Polymer Science Part A, 2009, 47, 3691-3701.	2.5	22
38	Velocity Sedimentation and Intrinsic Viscosity Analysis of Polystyrene Standards with a Wide Range of Molar Masses. Macromolecular Chemistry and Physics, 2010, 211, 1298-1310.	1.1	21
39	Hydrodynamic and Optical Properties of Homologous Series of Styrene-Methyl Methacrylate Graft Copolymers. Macromolecules, 1978, 11, 294-300.	2.2	20
40	Organization of Human Interferon γâ~'Heparin Complexes from Solution Properties and Hydrodynamicsâ€. Biochemistry, 2006, 45, 13227-13238.	1.2	18
41	Selfâ€Assembly of 3,6â€Bis(4â€triazolyl)pyridazine Ligands with Copper(I) and Silver(I) Ions: Timeâ€Dependant 2Dâ€NOESY and Ultracentrifuge Measurements. Chemistry - an Asian Journal, 2011, 6, 873-880.	1.7	18
42	Linear poly(ethylene imine)s: true molar masses, solution properties and conformation. Polymer Chemistry, 2017, 8, 7169-7179.	1.9	18
43	Hydrodynamic Analysis of Well-Defined Flexible Linear Macromolecules of Low Molar Mass. Macromolecules, 2009, 42, 7447-7455.	2.2	17
44	Microwave-assisted synthesis of imidazolium ionenes and their application as humidity absorbers. Journal of Materials Chemistry, 2010, 20, 3583.	6.7	17
45	Hydrodynamic properties of the fractions of mannan formed by Rhodotorula rubra yeast. Carbohydrate Polymers, 1992, 19, 243-248.	5.1	15
46	Hydrodynamic, molecular, and conformational characteristics of macromolecules of a random copolymer of N-Methyl-N-vinylacetamide and N-Methyl-N-vinylamine Hydrochloride. Russian Journal of Applied Chemistry, 2012, 85, 1239-1246.	0.1	15
47	Synthesis and characterization of polymethacrylates containing conjugated oligo(phenylene) Tj ETQq1 1 0.78431	14.rgBT /O	verlock 10 T
48	Self-sufficiency of velocity sedimentation for the determination of molecular characteristics of linear polymers. Polymer, 1995, 36, 2043-2048.	1.8	14
49	Flow birefringence of xanthan and other polysaccharide solutions. International Journal of Biological Macromolecules, 1999, 26, 295-301.	3.6	14
50	Evaluation of draining and volume effects in the interpretation of hydrodynamic data for linear macromolecules. , 2002, , 149-158.		14
51	Molecular orientation ordering in surface layers of polymer films. Polymer Science - Series A, 2007, 49, 828-836.	0.4	14
52	Synthesis, characterization, and micellization studies of coilâ€rodâ€coil and ABA ruthenium(II) terpyridine assemblies with l€â€conjugated electron acceptor systems. Journal of Polymer Science Part A, 2011, 49, 1396-1408.	2.5	13
53	Star-Brush-Shaped Macromolecules: Peculiar Properties in Dilute Solution. Macromolecules, 2013, 46, 8671-8679.	2.2	12
54	Dimensions and conformations of macromolecules of N-methyl-N-vinylacetamide and N-methyl-N-vinylamine hydrochloride in solutions in a wide interval of ionic strength. Polymer Science - Series C, 2017, 59, 125-132.	0.8	12

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55	Molecular Characteristics of Poly(methacrylamido <scp>d</scp> -Glucose) ¹ . Journal of Carbohydrate Chemistry, 1996, 15, 419-433.	0.4	11
56	Investigation of the formation and properties of water-soluble conjugates of polymer p-nitrophenyl esters with polymer primary amines. European Polymer Journal, 2000, 36, 1127-1135.	2.6	11
57	Conformations of sodium poly(styrene-4-sulfonate) macromolecules in solutions with different ionic strengths. Polymer Science - Series A, 2011, 53, 1003-1011.	0.4	11
58	Hydrodynamic and Molecular Study of Poly{4â€[4â€(hexyloxy)phenyl]ethynylphenyl methacrylate} in Dilute Solutions and Conformational Peculiarities of Brushâ€Like Macromolecules. Macromolecular Chemistry and Physics, 2012, 213, 904-916.	1.1	11
59	Induced Charge Effect by Co(II) Complexation on the Conformation of a Copolymer Containing a Bidentate 2â€(1,2,3â€Triazolâ€4â€yl)pyridine Chelating Unit. Macromolecular Chemistry and Physics, 2012, 213, 1339-1348.	1.1	11
60	Polysaccharide Film Technologies: Interfacial Order and Chain Thermodynamic Rigidity. Biotechnology and Genetic Engineering Reviews, 1999, 16, 347-360.	2.4	10
61	Spectrum of hydrodynamic volumes and sizes of macromolecules of linear polyelectrolytes <i>versus</i> their charge density in salt-free aqueous solutions. Physical Chemistry Chemical Physics, 2018, 20, 9975-9983.	1.3	10
62	Optical properties of dextran in solution and in films. Carbohydrate Polymers, 1999, 38, 267-271.	5.1	9
63	Hydrodynamic and molecular characteristics of graft copolymers of chitosan with acrylamide. Polymer Science - Series B, 2007, 49, 232-235.	0.3	9
64	Conformation of sodium poly(4-styrenesulfonate) macromolecules in aqueous solutions. Doklady Chemistry, 2008, 419, 111-112.	0.2	9
65	Sizes and conformations of hydrophilic and hydrophobic polyelectrolytes in solutions of various ionic strengths. Polymer Science - Series A, 2013, 55, 699-705.	0.4	9
66	Molecular characteristics of poly(1-trimethylsilyl-1-propyne) in dilute solutions. Polymer, 2004, 45, 1159-1166.	1.8	8
67	Diffusion-viscometric analysis and conformational characteristics of sodium polystyrenesulfonate molecules. Russian Journal of Applied Chemistry, 2006, 79, 1490-1493.	0.1	8
68	Flow birefringence of pullulan molecules in solutions. Polymer, 1998, 39, 235-239.	1.8	7
69	Molecular Properties and Electrostatic Interactions of Linear Poly(allylamine hydrochloride) Chains. , 0, , 134-140.		7
70	Different Levels of Self-Sufficiency of the Velocity Sedimentation Method in the Study of Linear Macromolecules. , 2016, , 269-307.		7
71	Title is missing!. Russian Journal of Applied Chemistry, 2001, 74, 663-668.	0.1	6
72	Dendrimers Based on Â-Amino Acids: Synthesis and Hydrodynamic Characteristics. Doklady Physical Chemistry, 2004, 399, 290-292.	0.2	6

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73	Molecular-hydrodynamic study of poly(N-methyl-N-vinylacetamide) macromolecules. Polymer Science - Series C, 2010, 52, 62-69.	0.8	6
74	Unimolecular micelles based on amphiphilic of N-methyl-N-vinylacetamide copolymers. Doklady Chemistry, 2015, 463, 181-184.	0.2	6
75	Title is missing!. Russian Journal of Applied Chemistry, 2002, 75, 1665-1672.	0.1	5
76	Conformational features of poly- l - and poly- d , l -lactides through molecular optics and hydrodynamics. European Polymer Journal, 2017, 89, 324-338.	2.6	5
77	Detection and evaluation of polymer–polymer interactions in dilute solutions of associating polymers. Polymer Chemistry, 2021, 12, 2325-2334.	1.9	5
78	Hydrodynamics of Macromolecules: Conformation Zoning for General Macromolecules. , 2013, , 1014-1024.		5
79	Orientational order in surface layers of gelatin films. European Polymer Journal, 2001, 37, 179-182.	2.6	4
80	Dynamo-optical properties of methylcellulose solutions and the optical anisotropy of glucopyranose ring. European Polymer Journal, 2001, 37, 1219-1225.	2.6	4
81	Spontaneous birefringence in films of some phenyl-containing polymers. Polymer Science - Series B, 2007, 49, 191-195.	0.3	4
82	Intra―and interâ€supramolecular complexation of poly(butyl methacrylate)â€coâ€2â€(1,2,3â€triazolâ€4â€yl)p copolymers induced by CoII, FeII, and EuIII ions monitored by molecular hydrodynamics methods. Journal of Polymer Science Part A, 2016, 54, 2632-2639.	yridine 2.5	4
83	Hydrodynamic, molecular, and conformational characteristics of poly[1,3-bis(3′,4-dicarboxyphenoxy)benzene 4,4′-bis(4″-N-phenoxy)-diphenylsulfone]imide in solutions. Polymer Science - Series A, 2016, 58, 12-17.	0.4	4
84	Conformation and Equilibrium Rigidity of Molecules of Poly(phenylquinoxalines). Macromolecules, 1979, 12, 645-650.	2.2	3
85	Correlations of hydrodynamic characteristics of macromolecules and their retention volumes in GPC. Journal of Applied Polymer Science, 1992, 46, 2059-2061.	1.3	3
86	Hydrodynamic and Molecular Characteristics of Poly[1-(trimethylgermyl)propyne]. Russian Journal of Applied Chemistry, 2001, 74, 286-291.	0.1	3
87	Water-Soluble Starlike Fullerene C60 Derivatives Based on Polyvinylpyrrolidone. Doklady Physical Chemistry, 2003, 391, 177-179.	0.2	3
88	Title is missing!. Russian Journal of General Chemistry, 2003, 73, 344-349.	0.3	3
89	Grafting of poly-N-methacryloylaminodeoxyglucose on poly-N-vinylpyrrolidone. Russian Journal of Applied Chemistry, 2004, 77, 1341-1344.	0.1	3
90	Molecular Characteristics of Star-Like Polyvinylpyrrolidone with Fullerene C60 as the Branching Site in Dilute Solutions. Russian Journal of Applied Chemistry, 2005, 78, 130-136.	0.1	3

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91	Orientational ordering of polymer chains near the surface and asymmetry of the statistical segment of macromolecules. Russian Journal of Applied Chemistry, 2007, 80, 102-105.	0.1	3
92	Orientational Order in Nanolayers of Cast Polymer Films. Langmuir, 2009, 25, 9085-9093.	1.6	3
93	Characteristic features of the behavior of charged hydrophilic and hydrophobic macromolecules in solutions of different ionic strength. Doklady Chemistry, 2013, 448, 16-18.	0.2	3
94	Conformational differences of poly(L-lactic acid) and poly(D,L-lactic acid) in dilute solutions. Doklady Chemistry, 2015, 465, 261-264.	0.2	3
95	Amphiphilic star-shaped brushes based on block copolymers-molecular micelles for the delivery of drugs: Hydrodynamic studies. Polymer Science - Series A, 2015, 57, 115-122.	0.4	3
96	Analytical ultracentrifugation and combined molecular hydrodynamic approaches for polymer characterization. , 2021, , 223-259.		3
97	Modification of the Benoit model for β1-4 glucans. Carbohydrate Polymers, 1998, 37, 415-418.	5.1	2
98	Title is missing!. Russian Journal of Applied Chemistry, 2002, 75, 276-280.	0.1	2
99	Synthesis and hydrodynamic and molecular characteristics of N-methacryloylglucosamine N-vinylformamide copolymers. Russian Journal of Applied Chemistry, 2007, 80, 777-782.	0.1	2
100	The structure and spontaneous orientational order in surface layers of water-soluble methyl- and hydroxypropylmethyl cellulose films. Polymer Science - Series B, 2008, 50, 20-24.	0.3	2
101	Birefringence in solutions and films of poly(N-methyl-N-vinylacetamide) macromolecules. Polymer Science - Series A, 2015, 57, 261-265.	0.4	2
102	Birefringence in solutions and films of poly[4,4'-bis(4''-N-phenoxy)diphenylsulfon]imide of 1,3 bis(3',4-dicarboxyphenoxy)benzene. Polymer Science - Series A, 2017, 59, 193-197.	0.4	2
103	Sizes of Macromolecules of Copolymers of N-Methyl-N-Vinylacetamide and N-Methyl-N-Vinylamine Hydrochloride with Low Charge Linear Density. Polymer Science - Series A, 2018, 60, 172-178.	0.4	2
104	RAFT synthesized poly-N-vinylsuccinimide macromolecules: properties in dilute solutions. Colloid and Polymer Science, 2019, 297, 1213-1221.	1.0	2
105	Advances in Physicochemical Properties of Biopolymers (Part 1). , 2017, , .		2
106	Hydrodynamic and molecular homology of dendrimer molecules. Colloid and Polymer Science, 2001, 279, 714-715.	1.0	1
107	Behavior of polymeric stars with fullerene core in aqueous solution: structural investigation by neutron and light scattering. Physica B: Condensed Matter, 2004, 350, E419-E422.	1.3	1
108	Electrostatic long-range and short-range interactions in linear poly(allylamine hydrochloride) chains. Polymer Science - Series A, 2006, 48, 177-182.	0.4	1

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109	Dynamic birefringence of poly(styrene-4-sulfonate sodium) macromolecules in aqueous solutions at high ionic strengths. Polymer Science - Series A, 2010, 52, 115-118.	0.4	1
110	Size of linear polyelectrolytes with different charge density in salt-free aqueous solutions. Doklady Chemistry, 2014, 454, 13-16.	0.2	1
111	Influence of Electrostatic Long-Range and Short-Range Effects on the Conformations of Flexible-Chain Linear Polyelectrolyte Macromolecules with Different Charge Density in Salt-Free Aqueous Solutions. Polymer Science - Series A, 2019, 61, 805-814.	0.4	1
112	Electrostatic Long-Range Interactions in Macromolecules of Flexible-Chain Linear Polyelectrolytes with Low Charge Density in Aqueous Solutions of Different Ionic Strength. Doklady Physical Chemistry, 2019, 489, 164-167.	0.2	1
113	Detecting Hydrophobic Interactions in Star-Shaped Amphiphilic Copolymers by the Viscometric Method. Polymer Science - Series A, 2021, 63, 1-7.	0.4	1
114	Sizes Monitoring of Polyelectrolyte Flexible Chains over the Entire Range of Ionic Strength through Viscometry of Dilute Solutions. Reviews and Advances in Chemistry, 2021, 11, 134-144.	0.2	1
115	Neutron Star Atmospheres. , 2002, , 37-48.		0
116	Water-Soluble Polymeric Methanofullerene and Fulleropyrrolidine Derivatives. Russian Journal of Applied Chemistry, 2005, 78, 1981-1986.	0.1	0
117	Hierarchy of Structural Organization of Fullerene ontaining Polyvinylformamide in Solutions. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 321-326.	1.0	0
118	Hydrodynamic and molecular characteristics of cyclodextrin molecules in solutions. Doklady Biochemistry and Biophysics, 2009, 426, 164-166.	0.3	0
119	Analytical Ultracentrifugation in the Former USSR: The MOM Ultracentrifuges. Macromolecular Bioscience, 2010, 10, 700-702.	2.1	0
120	Correlation Functions and Optical Effects in Surface Layers of Polymer Films. Ferroelectrics, 2010, 397, 122-127.	0.3	0
121	Birefringence in triphenylamine-containing polyheteroarylene films. Journal of Optical Technology (A) Tj ETQq1 1	0.784314 0.2	rgBT /Overlo
122	Conformations of polyelectrolyte macromolecules with different charge density in solutions of different ionic strengths. Journal of Physics: Conference Series, 2016, 769, 012017.	0.3	0
123	Orientational order in surface layers of pullulan films. Biophysics (Russian Federation), 2017, 62, 53-57.	0.2	0
124	Influence of Side Chain Length on the Properties of Alkylated Copolymers Based on N-Methyl-N-Vinylacetamide. IOP Conference Series: Materials Science and Engineering, 2019, 500, 012017.	0.3	0