

Georges M Pavlov

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.

121
papers

2,469
citations

26
h-index

46
g-index

128
ext. papers

2,631
ext. citations

3.1
avg, IF

4.66
L-index

#	Paper	IF	Citations
121	Analytical ultracentrifugation and combined molecular hydrodynamic approaches for polymer characterization 2021 , 223-259		0
120	Detecting Hydrophobic Interactions in Star-Shaped Amphiphilic Copolymers by the Viscometric Method. <i>Polymer Science - Series A</i> , 2021 , 63, 1-7	1.2	0
119	Detection and evaluation of polymer-polymer interactions in dilute solutions of associating polymers. <i>Polymer Chemistry</i> , 2021 , 12, 2325-2334	4.9	2
118	Sizes Monitoring of Polyelectrolyte Flexible Chains over the Entire Range of Ionic Strength through Viscometry of Dilute Solutions. <i>Reviews and Advances in Chemistry</i> , 2021 , 11, 134-144	0	1
117	RAFT synthesized poly-N-vinylsuccinimide macromolecules: properties in dilute solutions. <i>Colloid and Polymer Science</i> , 2019 , 297, 1213-1221	2.4	2
116	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. <i>Polymer Science - Series A</i> , 2019 , 61, 805-814	1.2	1
115	Influence of Side Chain Length on the Properties of Alkylated Copolymers Based on N-Methyl-N-Vinylacetamide. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 500, 012017 ^{0.4}		
114	Electrostatic Long-Range Interactions in Macromolecules of Flexible-Chain Linear Polyelectrolytes with Low Charge Density in Aqueous Solutions of Different Ionic Strength. <i>Doklady Physical Chemistry</i> , 2019 , 489, 164-167	0.8	1
113	Spectrum of hydrodynamic volumes and sizes of macromolecules of linear polyelectrolytes versus their charge density in salt-free aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9975-9983	3.6	10
112	Sizes of Macromolecules of Copolymers of N-Methyl-N-Vinylacetamide and N-Methyl-N-Vinylamine Hydrochloride with Low Charge Linear Density. <i>Polymer Science - Series A</i> , 2018 , 60, 172-178	1.2	2
111	Conformational features of poly-l- and poly-d,l-lactides through molecular optics and hydrodynamics. <i>European Polymer Journal</i> , 2017 , 89, 324-338	5.2	4
110	Birefringence in solutions and films of poly[4,4'-bis(4''-N-phenoxy)diphenylsulfon]imide of 1,3-bis(3',4-dicarboxyphenoxy)benzene. <i>Polymer Science - Series A</i> , 2017 , 59, 193-197	1.2	2
109	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. <i>Polymer Science - Series C</i> , 2017 , 59, 125-132	1.1	9
108	Linear poly(ethylene imine)s: true molar masses, solution properties and conformation. <i>Polymer Chemistry</i> , 2017 , 8, 7169-7179	4.9	15
107	Orientational order in surface layers of pullulan films. <i>Biophysics (Russian Federation)</i> , 2017 , 62, 53-57	0.7	
106	Hydrodynamic, molecular, and conformational characteristics of poly[1,3-bis(3',4-dicarboxyphenoxy)benzene 4,4'-bis(4''-N-phenoxy)-diphenylsulfone]imide in solutions. <i>Polymer Science - Series A</i> , 2016 , 58, 12-17	1.2	4
105	Different Levels of Self-Sufficiency of the Velocity Sedimentation Method in the Study of Linear Macromolecules 2016 , 269-307		4

104	Conformations of polyelectrolyte macromolecules with different charge density in solutions of different ionic strengths. <i>Journal of Physics: Conference Series</i> , 2016 , 769, 012017	0.3	
103	Intra- and inter-supramolecular complexation of poly(butyl methacrylate)-co-2-(1,2,3-triazol-4-yl)pyridine copolymers induced by Coll, Fell, and EuIII ions monitored by molecular hydrodynamics methods. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2632-2639	2.5	4
102	Amphiphilic star-shaped brushes based on block copolymers-molecular micelles for the delivery of drugs: Hydrodynamic studies. <i>Polymer Science - Series A</i> , 2015 , 57, 115-122	1.2	2
101	Hyperbranched Poly(ethylene glycol) Copolymers: Absolute Values of the Molar Mass, Properties in Dilute Solution, and Hydrodynamic Homology. <i>Macromolecules</i> , 2015 , 48, 5887-5898	5.5	28
100	Birefringence in solutions and films of poly(N-methyl-N-vinylacetamide) macromolecules. <i>Polymer Science - Series A</i> , 2015 , 57, 261-265	1.2	1
99	Unimolecular micelles based on amphiphilic of N-methyl-N-vinylacetamide copolymers. <i>Doklady Chemistry</i> , 2015 , 463, 181-184	0.8	6
98	Conformational differences of poly(L-lactic acid) and poly(D,L-lactic acid) in dilute solutions. <i>Doklady Chemistry</i> , 2015 , 465, 261-264	0.8	3
97	Size of linear polyelectrolytes with different charge density in salt-free aqueous solutions. <i>Doklady Chemistry</i> , 2014 , 454, 13-16	0.8	1
96	Strong Linear Polyelectrolytes in Solutions of Extreme Concentrations of One One Valent Salt. Hydrodynamic Study. <i>Macromolecules</i> , 2014 , 47, 2748-2758	5.5	33
95	Birefringence in triphenylamine-containing polyheteroarylene films. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2014 , 81, 104	0.9	
94	Star-Brush-Shaped Macromolecules: Peculiar Properties in Dilute Solution. <i>Macromolecules</i> , 2013 , 46, 8671-8679	5.5	10
93	Sizes and conformations of hydrophilic and hydrophobic polyelectrolytes in solutions of various ionic strengths. <i>Polymer Science - Series A</i> , 2013 , 55, 699-705	1.2	7
92	Characteristic features of the behavior of charged hydrophilic and hydrophobic macromolecules in solutions of different ionic strength. <i>Doklady Chemistry</i> , 2013 , 448, 16-18	0.8	3
91	Amphiphilic star-shaped block copolymers as unimolecular drug delivery systems: investigations using a novel fungicide. <i>Soft Matter</i> , 2013 , 9, 715-726	3.6	29
90	Hydrodynamic, molecular, and conformational characteristics of macromolecules of a random copolymer of N-Methyl-N-vinylacetamide and N-Methyl-N-vinylamine Hydrochloride. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1239-1246	0.8	15
89	Polyelectrolyte complexes of DNA and linear PEI: formation, composition and properties. <i>Langmuir</i> , 2012 , 28, 16167-76	4	60
88	Preparation, cellular internalization, and biocompatibility of highly fluorescent PMMA nanoparticles. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1791-7	4.8	31
87	Nanoprecipitation of poly(methyl methacrylate)-based nanoparticles: Effect of the molar mass and polymer behavior. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2906-2913	2.5	26

86	Synthesis and characterization of polymethacrylates containing conjugated oligo(phenylene ethynylene)s as side chains. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 3192-3205	2.5	15
85	Hydrodynamic and Molecular Study of Poly{4-[4-(hexyloxy)phenyl]ethynylphenyl methacrylate} in Dilute Solutions and Conformational Peculiarities of Brush-Like Macromolecules. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 904-916	2.6	11
84	Induced Charge Effect by Co(II) Complexation on the Conformation of a Copolymer Containing a Bidentate 2-(1,2,3-Triazol-4-yl)pyridine Chelating Unit. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1339-1348	2.6	10
83	Ruthenium(II) metallo-supramolecular polymers of click-derived tridentate ditopic ligands. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 597-602	4.8	28
82	Design and synthesis of new anionic β polymeric ionic liquids with high charge delocalization. <i>Polymer Chemistry</i> , 2011 , 2, 2609	4.9	85
81	Examination and optimization of the self-assembly of biocompatible, polymeric nanoparticles by high-throughput nanoprecipitation. <i>Soft Matter</i> , 2011 , 7, 5030	3.6	26
80	Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. <i>Macromolecules</i> , 2011 , 44, 9792-9803	3.5	73
79	Conformation parameters of linear macromolecules from velocity sedimentation and other hydrodynamic methods. <i>Methods</i> , 2011 , 54, 124-35	4.6	41
78	Bis(trifluoromethylsulfonyl)amide based β polymeric ionic liquids Synthesis, purification and peculiarities of structure-properties relationships. <i>Electrochimica Acta</i> , 2011 , 57, 74-90	6.7	75
77	Self-assembly of 3,6-bis(4-triazolyl)pyridazine ligands with copper(I) and silver(I) ions: time-dependant 2D-NOESY and ultracentrifuge measurements. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 873-80	4.5	18
76	Conformations of sodium poly(styrene-4-sulfonate) macromolecules in solutions with different ionic strengths. <i>Polymer Science - Series A</i> , 2011 , 53, 1003-1011	1.2	9
75	Synthesis, characterization, and micellization studies of coil-rod-coil and ABA ruthenium(II) terpyridine assemblies with β conjugated electron acceptor systems. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 1396-1408	2.5	13
74	Correlation Functions and Optical Effects in Surface Layers of Polymer Films. <i>Ferroelectrics</i> , 2010 , 397, 122-127	0.6	
73	Microwave-assisted synthesis of imidazolium ionenes and their application as humidity absorbers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3583		17
72	Dynamic birefringence of poly(styrene-4-sulfonate sodium) macromolecules in aqueous solutions at high ionic strengths. <i>Polymer Science - Series A</i> , 2010 , 52, 115-118	1.2	1
71	Molecular-hydrodynamic study of poly(N-methyl-N-vinylacetamide) macromolecules. <i>Polymer Science - Series C</i> , 2010 , 52, 62-69	1.1	6
70	Hydrodynamic properties of cyclodextrin molecules in dilute solutions. <i>European Biophysics Journal</i> , 2010 , 39, 371-9	1.9	35
69	Velocity Sedimentation and Intrinsic Viscosity Analysis of Polystyrene Standards with a Wide Range of Molar Masses. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1298-1310	2.6	20

68	Conjugated Donor and Donor-Acceptor Metallo-Polymers. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 868-74	4.8	36
67	Conformational parameters of poly(N-methyl-N-vinylacetamide) molecules through the hydrodynamic characteristics studies. <i>Macromolecular Bioscience</i> , 2010 , 10, 790-7	5.5	20
66	Analytical ultracentrifugation in the former USSR: The MOM ultracentrifuges. <i>Macromolecular Bioscience</i> , 2010 , 10, 700-2	5.5	
65	Characterization of poly(methyl methacrylate) nanoparticles prepared by nanoprecipitation using analytical ultracentrifugation, dynamic light scattering, and scanning electron microscopy. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3924-3931	2.5	44
64	Alternating terpyridine-endfunctionalized copolymers of styrene and diphenylethylene via anionic polymerization techniques: A detailed characterization study. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 3691-3701	2.5	18
63	Hydrodynamic and molecular characteristics of cyclodextrin molecules in solutions. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 426, 164-6	0.8	
62	A Versatile Approach to Unimolecular Water-Soluble Carriers: ATRP of PEGMA with Hydrophobic Star-Shaped Polymeric Core Molecules as an Alternative for PEGylation. <i>Macromolecules</i> , 2009 , 42, 1808-1816	5.5	78
61	Hydrodynamic Analysis of Well-Defined Flexible Linear Macromolecules of Low Molar Mass. <i>Macromolecules</i> , 2009 , 42, 7447-7455	5.5	17
60	Orientalional order in nanolayers of cast polymer films. <i>Langmuir</i> , 2009 , 25, 9085-93	4	3
59	Conformation of sodium poly(4-styrenesulfonate) macromolecules in aqueous solutions. <i>Doklady Chemistry</i> , 2008 , 419, 111-112	0.8	9
58	The structure and spontaneous orientational order in surface layers of water-soluble methyl- and hydroxypropylmethyl cellulose films. <i>Polymer Science - Series B</i> , 2008 , 50, 20-24	0.8	2
57	Molecular orientation ordering in surface layers of polymer films. <i>Polymer Science - Series A</i> , 2007 , 49, 828-836	1.2	14
56	Orientalional ordering of polymer chains near the surface and asymmetry of the statistical segment of macromolecules. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 102-105	0.8	3
55	Synthesis and hydrodynamic and molecular characteristics of N-methacryloylglucosamine N-vinylformamide copolymers. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 777-782	0.8	2
54	Spontaneous birefringence in films of some phenyl-containing polymers. <i>Polymer Science - Series B</i> , 2007 , 49, 191-195	0.8	4
53	Hydrodynamic and molecular characteristics of graft copolymers of chitosan with acrylamide. <i>Polymer Science - Series B</i> , 2007 , 49, 232-235	0.8	7
52	Size and average density spectra of macromolecules obtained from hydrodynamic data. <i>European Physical Journal E</i> , 2007 , 22, 171-80	1.5	35
51	Hierarchy of Structural Organization of Fullerene-Containing Polyvinylformamide in Solutions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 321-326	1.8	

50	Organization of human interferon gamma-heparin complexes from solution properties and hydrodynamics. <i>Biochemistry</i> , 2006 , 45, 13227-38	3.2	17
49	Determination of intrinsic viscosity of polyelectrolytes in salt-free solutions. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1407-1412	0.8	23
48	Diffusion-viscometric analysis and conformational characteristics of sodium polystyrenesulfonate molecules. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1490-1493	0.8	5
47	Electrostatic long-range and short-range interactions in linear poly(allylamine hydrochloride) chains. <i>Polymer Science - Series A</i> , 2006 , 48, 177-182	1.2	1
46	Molecular Characteristics of Star-Like Polyvinylpyrrolidone with Fullerene C60 as the Branching Site in Dilute Solutions. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 130-136	0.8	1
45	Water-Soluble Polymeric Methanofullerene and Fullero-pyrrolidine Derivatives. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 1981-1986	0.8	
44	Dendrimers Based on α -Amino Acids: Synthesis and Hydrodynamic Characteristics. <i>Doklady Physical Chemistry</i> , 2004 , 399, 290-292	0.8	6
43	Grafting of poly-N-methacryloylaminodeoxyglucose on poly-N-vinylpyrrolidone. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1341-1344	0.8	3
42	Behavior of polymeric stars with fullerene core in aqueous solution: structural investigation by neutron and light scattering. <i>Physica B: Condensed Matter</i> , 2004 , 350, E419-E422	2.8	1
41	Molecular characteristics of poly(1-trimethylsilyl-1-propyne) in dilute solutions. <i>Polymer</i> , 2004 , 45, 1159-1166	3.1	8
40	Partial specific volume and solvent interactions of amphipol A8-35. <i>Analytical Biochemistry</i> , 2004 , 334, 318-34	3.1	100
39	Water-Soluble Starlike Fullerene C60 Derivatives Based on Polyvinylpyrrolidone. <i>Doklady Physical Chemistry</i> , 2003 , 391, 177-179	0.8	2
38	Molecular and Electrooptical Characteristics of Poly(1-trimethylsilyl-1-propynes) with Varied Chain Regularity. <i>Russian Journal of General Chemistry</i> , 2003 , 73, 344-349	0.7	3
37	Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering. <i>European Biophysics Journal</i> , 2003 , 32, 437-49	1.9	88
36	Neutron Star Atmospheres 2002 , 37-48		
35	Molecular characteristics of poly(propylene imine) dendrimers as studied with translational diffusion and viscometry. <i>Colloid and Polymer Science</i> , 2002 , 280, 416-423	2.4	37
34	Synthesis of N-Vinylpyrrolidone-Crotonic Acid-2-Hydroxyethyl Methacrylate Terpolymers as Carriers of Biologically Active Substances. <i>Russian Journal of Applied Chemistry</i> , 2002 , 75, 276-280	0.8	2
33	Electrooptical and Conformational Properties of Poly(1-Trimethylsilyl-1-Propynes) with Different Chain Microstructures. <i>Russian Journal of Applied Chemistry</i> , 2002 , 75, 1665-1672	0.8	5

32	Evaluation of draining and volume effects in the interpretation of hydrodynamic data for linear macromolecules 2002 , 149-158		14
31	Dilute solution properties of lactosylated polyamidoamine dendrimers and their structural characteristics. <i>Polymer</i> , 2001 , 42, 3671-3678	3.9	21
30	Orientalional order in surface layers of gelatin films. <i>European Polymer Journal</i> , 2001 , 37, 179-182	5.2	4
29	Dynamo-optical properties of methylcellulose solutions and the optical anisotropy of glucopyranose ring. <i>European Polymer Journal</i> , 2001 , 37, 1219-1225	5.2	4
28	Hydrodynamic and Molecular Characteristics of Poly[1-(trimethylgermyl)propyne]. <i>Russian Journal of Applied Chemistry</i> , 2001 , 74, 286-291	0.8	3
27	Synthesis of Water-Soluble Chemically Degradable Polymers from Glutaraldehyde and N-Vinylpyrrolidone-Allylamine Copolymers. <i>Russian Journal of Applied Chemistry</i> , 2001 , 74, 663-668	0.8	4
26	Investigation of the formation and properties of water-soluble conjugates of polymer p-nitrophenyl esters with polymer primary amines. <i>European Polymer Journal</i> , 2000 , 36, 1127-1135	5.2	8
25	Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. <i>Carbohydrate Polymers</i> , 2000 , 42, 123-131	10.3	21
24	Normalized scaling relations as a natural classification of linear macromolecules according to size 1999 , 76-80		25
23	Influence of acetic acid concentration on the solubilization of chitosan. <i>Polymer</i> , 1999 , 40, 7029-7032	3.9	466
22	Hydrodynamic properties of carbohydrate-coated dendrimers. <i>Carbohydrate Polymers</i> , 1999 , 38, 195-202	10.3	26
21	Size and shape of inulin in dimethyl sulphoxide solution. <i>Carbohydrate Polymers</i> , 1999 , 38, 231-234	10.3	25
20	Optical properties of dextran in solution and in films. <i>Carbohydrate Polymers</i> , 1999 , 38, 267-271	10.3	7
19	Polysaccharide Film Technologies: Interfacial Order and Chain Thermodynamic Rigidity. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999 , 16, 347-360	4.1	9
18	Flow birefringence of xanthan and other polysaccharide solutions. <i>International Journal of Biological Macromolecules</i> , 1999 , 26, 295-301	7.9	12
17	Solubilization of Chitosan in Strong Acid Medium. <i>International Journal of Polymer Analysis and Characterization</i> , 1999 , 5, 267-276	1.7	113
16	Modification of the Benoit model for 1-4 glucans. <i>Carbohydrate Polymers</i> , 1998 , 37, 415-418	10.3	1
15	Flow birefringence of pullulan molecules in solutions. <i>Polymer</i> , 1998 , 39, 235-239	3.9	6

14 Dilute solution properties of carboxymethylchitins in high ionic-strength solvent. *Polymer*, **1998**, 39, 6951-6961 28

13 The concentration dependence of sedimentation for polysaccharides. *European Biophysics Journal*, **1997**, 25, 385-397 1.9 26

12 Conformation zoning of large molecules using the analytical ultracentrifuge. *TrAC - Trends in Analytical Chemistry*, **1997**, 16, 401-405 14.6 44

11 Molecular Characteristics of Poly(methacrylamido d-Glucose)1. *Journal of Carbohydrate Chemistry*, **1996**, 15, 419-433 1.7 11

10 Self-sufficiency of velocity sedimentation for the determination of molecular characteristics of linear polymers. *Polymer*, **1995**, 36, 2043-2048 3.9 13

9 Sedimentation parameter of linear polymers **1995**, 101-108 27

8 Hydrodynamic characteristics and equilibrium rigidity of pullulan molecules. *International Journal of Biological Macromolecules*, **1994**, 16, 318-23 7.9 37

7 Hydrodynamic properties of the fractions of mannan formed by *Rhodotorula rubra* yeast. *Carbohydrate Polymers*, **1992**, 19, 243-248 10.3 14

6 Correlations of hydrodynamic characteristics of macromolecules and their retention volumes in GPC. *Journal of Applied Polymer Science*, **1992**, 46, 2059-2061 2.9 3

5 Hydrodynamic properties of poly(1-vinyl-2-pyrrolidone) molecules in dilute solution. *Die Makromolekulare Chemie*, **1990**, 191, 2889-2899 46

4 The sedimentation parameter of linear polymer molecules in absence of excluded volume effects. *Acta Polymerica*, **1988**, 39, 107-111 20

3 Conformation and Equilibrium Rigidity of Molecules of Poly(phenylquinoxalines). *Macromolecules*, **1979**, 12, 645-650 5.5 3

2 Hydrodynamic and Optical Properties of Homologous Series of Styrene-Methyl Methacrylate Graft Copolymers. *Macromolecules*, **1978**, 11, 294-300 5.5 18

1 Molecular Properties and Electrostatic Interactions of Linear Poly(allylamine hydrochloride) Chains 134-140 6