

Georges M Pavlov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1867635/georges-m-pavlov-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Influence of acetic acid concentration on the solubilization of chitosan. <i>Polymer</i> , 1999 , 40, 7029-7032	3.9	466
120	Solubilization of Chitosan in Strong Acid Medium. <i>International Journal of Polymer Analysis and Characterization</i> , 1999 , 5, 267-276	1.7	113
119	Partial specific volume and solvent interactions of amphipol A8-35. <i>Analytical Biochemistry</i> , 2004 , 334, 318-34	3.1	100
118	Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering. <i>European Biophysics Journal</i> , 2003 , 32, 437-49	1.9	88
117	Design and synthesis of new anionic polymeric ionic liquids with high charge delocalization. <i>Polymer Chemistry</i> , 2011 , 2, 2609	4.9	85
116	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
115	Bis(trifluoromethylsulfonyl)amide based polymeric ionic liquids Synthesis, purification and peculiarities of structure-properties relationships. <i>Electrochimica Acta</i> , 2011 , 57, 74-90	6.7	75
114	Polymeric Ionic Liquids: Comparison of Polycations and Polyanions. <i>Macromolecules</i> , 2011 , 44, 9792-9803	3.5	73
113	Polyelectrolyte complexes of DNA and linear PEI: formation, composition and properties. <i>Langmuir</i> , 2012 , 28, 16167-76	4	60
112	Hydrodynamic properties of poly(1-vinyl-2-pyrrolidone) molecules in dilute solution. <i>Die Makromolekulare Chemie</i> , 1990 , 191, 2889-2899		46
111	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
110	Conformation zoning of large molecules using the analytical ultracentrifuge. <i>TrAC - Trends in Analytical Chemistry</i> , 1997 , 16, 401-405	14.6	44
109	Conformation parameters of linear macromolecules from velocity sedimentation and other hydrodynamic methods. <i>Methods</i> , 2011 , 54, 124-35	4.6	41
108	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
107	Hydrodynamic characteristics and equilibrium rigidity of pullulan molecules. <i>International Journal of Biological Macromolecules</i> , 1994 , 16, 318-23	7.9	37
106	Conjugated Donor and Donor-Acceptor Metallo-Polymers. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 868-74	4.8	36
105	Hydrodynamic properties of cyclodextrin molecules in dilute solutions. <i>European Biophysics Journal</i> , 2010 , 39, 371-9	1.9	35

104	Size and average density spectra of macromolecules obtained from hydrodynamic data. <i>European Physical Journal E</i> , 2007 , 22, 171-80	1.5	35
103	Strong Linear Polyelectrolytes in Solutions of Extreme Concentrations of One-Divalent Salt. Hydrodynamic Study. <i>Macromolecules</i> , 2014 , 47, 2748-2758	5.5	33
102	Preparation, cellular internalization, and biocompatibility of highly fluorescent PMMA nanoparticles. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1791-7	4.8	31
101	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
100	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
99	Ruthenium(II) metallo-supramolecular polymers of click-derived tridentate ditopic ligands. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 597-602	4.8	28
98	Dilute solution properties of carboxymethylchitins in high ionic-strength solvent. <i>Polymer</i> , 1998 , 39, 6951-6961	3.6	28
97	Sedimentation parameter of linear polymers 1995 , 101-108		27
96	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
95	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
94	The concentration dependence of sedimentation for polysaccharides. <i>European Biophysics Journal</i> , 1997 , 25, 385-397	1.9	26
93	Hydrodynamic properties of carbohydrate-coated dendrimers. <i>Carbohydrate Polymers</i> , 1999 , 38, 195-202	10.3	26
92	Normalized scaling relations as a natural classification of linear macromolecules according to size 1999 , 76-80		25
91	Size and shape of inulin in dimethyl sulphoxide solution. <i>Carbohydrate Polymers</i> , 1999 , 38, 231-234	10.3	25
90	Determination of intrinsic viscosity of polyelectrolytes in salt-free solutions. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1407-1412	0.8	23
89	Dilute solution properties of lactosylated polyamidoamine dendrimers and their structural characteristics. <i>Polymer</i> , 2001 , 42, 3671-3678	3.9	21
88	Water-soluble p-carboxybenzylated beechwood 4-O-methylglucuronoxylan: structural features and properties. <i>Carbohydrate Polymers</i> , 2000 , 42, 123-131	10.3	21
87	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

86	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
85	The sedimentation parameter of linear polymer molecules in absence of excluded volume effects. <i>Acta Polymerica</i> , 1988 , 39, 107-111		20
84	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
83	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
82	Hydrodynamic and Optical Properties of Homologous Series of Styrene-Methyl Methacrylate Graft Copolymers. <i>Macromolecules</i> , 1978 , 11, 294-300	5.5	18
81	Microwave-assisted synthesis of imidazolium ionenes and their application as humidity absorbers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3583		17
80	Hydrodynamic Analysis of Well-Defined Flexible Linear Macromolecules of Low Molar Mass. <i>Macromolecules</i> , 2009 , 42, 7447-7455	5.5	17
79	Organization of human interferon gamma-heparin complexes from solution properties and hydrodynamics. <i>Biochemistry</i> , 2006 , 45, 13227-38	3.2	17
78	Linear poly(ethylene imine)s: true molar masses, solution properties and conformation. <i>Polymer Chemistry</i> , 2017 , 8, 7169-7179	4.9	15
77	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
76	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
75	Molecular orientation ordering in surface layers of polymer films. <i>Polymer Science - Series A</i> , 2007 , 49, 828-836	1.2	14
74	Evaluation of draining and volume effects in the interpretation of hydrodynamic data for linear macromolecules 2002 , 149-158		14
73	Hydrodynamic properties of the fractions of mannan formed by <i>Rhodotorula rubra</i> yeast. <i>Carbohydrate Polymers</i> , 1992 , 19, 243-248	10.3	14
72	Synthesis, characterization, and micellization studies of coil-rod-coil and ABA ruthenium(II) terpyridine assemblies with π -conjugated electron acceptor systems. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 1396-1408	2.5	13
71	Self-sufficiency of velocity sedimentation for the determination of molecular characteristics of linear polymers. <i>Polymer</i> , 1995 , 36, 2043-2048	3.9	13
70	Flow birefringence of xanthan and other polysaccharide solutions. <i>International Journal of Biological Macromolecules</i> , 1999 , 26, 295-301	7.9	12
69	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

68	Molecular Characteristics of Poly(methacrylamido d-Glucose)1. <i>Journal of Carbohydrate Chemistry</i> , 1996 , 15, 419-433	1.7	11
67	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
66	Star-Brush-Shaped Macromolecules: Peculiar Properties in Dilute Solution. <i>Macromolecules</i> , 2013 , 46, 8671-8679	5.5	10
65	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
64	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
63	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
62	Conformation of sodium poly(4-styrenesulfonate) macromolecules in aqueous solutions. <i>Doklady Chemistry</i> , 2008 , 419, 111-112	0.8	9
61	Polysaccharide Film Technologies: Interfacial Order and Chain Thermodynamic Rigidity. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999 , 16, 347-360	4.1	9
60	Molecular characteristics of poly(1-trimethylsilyl-1-propyne) in dilute solutions. <i>Polymer</i> , 2004 , 45, 1159-1166	3.66	8
59	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
58	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
57	Hydrodynamic and molecular characteristics of graft copolymers of chitosan with acrylamide. <i>Polymer Science - Series B</i> , 2007 , 49, 232-235	0.8	7
56	Optical properties of dextran in solution and in films. <i>Carbohydrate Polymers</i> , 1999 , 38, 267-271	10.3	7
55	Unimolecular micelles based on amphiphilic of N-methyl-N-vinylacetamide copolymers. <i>Doklady Chemistry</i> , 2015 , 463, 181-184	0.8	6
54	Molecular-hydrodynamic study of poly(N-methyl-N-vinylacetamide) macromolecules. <i>Polymer Science - Series C</i> , 2010 , 52, 62-69	1.1	6
53	Flow birefringence of pullulan molecules in solutions. <i>Polymer</i> , 1998 , 39, 235-239	3.9	6
52	Molecular Properties and Electrostatic Interactions of Linear Poly(allylamine hydrochloride) Chains	134-140	6
51	Dendrimers Based on α -Amino Acids: Synthesis and Hydrodynamic Characteristics. <i>Doklady Physical Chemistry</i> , 2004 , 399, 290-292	0.8	6

50	Diffusion-viscometric analysis and conformational characteristics of sodium polystyrenesulfonate molecules. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1490-1493	0.8	5
49	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
48	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
47	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
46	Spontaneous birefringence in films of some phenyl-containing polymers. <i>Polymer Science - Series B</i> , 2007 , 49, 191-195	0.8	4
45	Orientalional order in surface layers of gelatin films. <i>European Polymer Journal</i> , 2001 , 37, 179-182	5.2	4
44	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
43	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
42	Different Levels of Self-Sufficiency of the Velocity Sedimentation Method in the Study of Linear Macromolecules 2016 , 269-307		4
41	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
40	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
39	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
38	Orientalional order in nanolayers of cast polymer films. <i>Langmuir</i> , 2009 , 25, 9085-93	4	3
37	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
36	Grafting of poly-N-methacryloylaminodeoxyglucose on poly-N-vinylpyrrolidone. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1341-1344	0.8	3
35	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
34	Hydrodynamic and Molecular Characteristics of Poly[1-(trimethylgermyl)propyne]. <i>Russian Journal of Applied Chemistry</i> , 2001 , 74, 286-291	0.8	3
33	Correlations of hydrodynamic characteristics of macromolecules and their retention volumes in GPC. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 2059-2061	2.9	3

32	Conformation and Equilibrium Rigidity of Molecules of Poly(phenylquinoxalines). <i>Macromolecules</i> , 1979 , 12, 645-650	5.5	3
31	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
30	RAFT synthesized poly-N-vinylsuccinimide macromolecules: properties in dilute solutions. <i>Colloid and Polymer Science</i> , 2019 , 297, 1213-1221	2.4	2
29	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
28	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
27	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
26	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
25	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
24	Water-Soluble Starlike Fullerene C60 Derivatives Based on Polyvinylpyrrolidone. <i>Doklady Physical Chemistry</i> , 2003 , 391, 177-179	0.8	2
23	Detection and evaluation of polymer-polymer interactions in dilute solutions of associating polymers. <i>Polymer Chemistry</i> , 2021 , 12, 2325-2334	4.9	2
22	Size of linear polyelectrolytes with different charge density in salt-free aqueous solutions. <i>Doklady Chemistry</i> , 2014 , 454, 13-16	0.8	1
21	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
20	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
19	Modification of the Benoit model for β -4 glucans. <i>Carbohydrate Polymers</i> , 1998 , 37, 415-418	10.3	1
18	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
17	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
16	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
15	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

14	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
13	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
12	Analytical ultracentrifugation and combined molecular hydrodynamic approaches for polymer characterization 2021 , 223-259		0
11	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
10	Orientalional order in surface layers of pullulan films. <i>Biophysics (Russian Federation)</i> , 2017 , 62, 53-57	0.7	
9	Birefringence in triphenylamine-containing polyheteroarylene films. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2014 , 81, 104	0.9	
8	Correlation Functions and Optical Effects in Surface Layers of Polymer Films. <i>Ferroelectrics</i> , 2010 , 397, 122-127	0.6	
7	Hydrodynamic and molecular characteristics of cyclodextrin molecules in solutions. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 426, 164-6	0.8	
6	Analytical ultracentrifugation in the former USSR: The MOM ultracentrifuges. <i>Macromolecular Bioscience</i> , 2010 , 10, 700-2	5.5	
5	Hierarchy of Structural Organization of Fullerene-Containing Polyvinylformamide in Solutions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 321-326	1.8	
4	Neutron Star Atmospheres 2002 , 37-48		
3	Water-Soluble Polymeric Methanofullerene and Fullero-pyrrolidine Derivatives. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 1981-1986	0.8	
2	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	
1	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}		