

# Jose Garcia de la Torre

## List of Publications by Year in descending order

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215  
papers

10,824  
citations

50276

46  
h-index

36028

97  
g-index

218  
all docs

218  
docs citations

218  
times ranked

9216  
citing authors

#	ARTICLE	IF	CITATIONS
1	New short cationic antibacterial peptides. Synthesis, biological activity and mechanism of action. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183665.	2.6	13
2	Hydrodynamic Properties of Biomacromolecules and Macromolecular Complexes: Concepts and Methods. A Tutorial Mini-review. <i>Journal of Molecular Biology</i> , 2020, 432, 2930-2948.	4.2	16
3	The Effect of Number of Arms on the Aggregation Behavior of Thermoresponsive Poly( N ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.1	7
4	Small Cationic Peptides: Influence of Charge on Their Antimicrobial Activity. <i>ACS Omega</i> , 2018, 3, 5390-5398.	3.5	51
5	Prediction and analysis of analytical ultracentrifugation experiments for heterogeneous macromolecules and nanoparticles based on Brownian dynamics simulation. <i>European Biophysics Journal</i> , 2018, 47, 845-854.	2.2	5
6	The Cyanobacterial Ribosomal-Associated Protein LrtA from <i>Synechocystis</i> sp. PCC 6803 Is an Oligomeric Protein in Solution with Chameleonic Sequence Properties. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1857.	4.1	5
7	Hydrodynamics of Nucleic Acids: Modeling Overall Conformation and Dynamics. , 2018, , 1-7.		0
8	Crystallohydrodynamics of IgG. , 2018, , 1-8.		0
9	Single Fusion Events at Polarized Liquidâ€“Liquid Interfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 782-785.	13.8	36
10	The chondroitin sulfate/dermatan sulfate 4-O-endosulfatase from marine bacterium <i>Vibrio</i> sp FC509 is a dimeric species: Biophysical characterization of an endosulfatase. <i>Biochimie</i> , 2016, 131, 85-95.	2.6	9
11	Shape Analysis of DNAâ€“Au Hybrid Particles by Analytical Ultracentrifugation. <i>ACS Nano</i> , 2016, 10, 7418-7427.	14.6	14
12	Human COA3 Is an Oligomeric Highly Flexible Protein in Solution. <i>Biochemistry</i> , 2016, 55, 6209-6220.	2.5	4
13	The HYDRO Software Suite for the Prediction of Solution Properties of Rigid and Flexible Macromolecules and Nanoparticles. , 2016, , 195-217.		6
14	Application of recent advances in hydrodynamic methods for characterising mucins in solution. <i>European Biophysics Journal</i> , 2016, 45, 45-54.	2.2	7
15	Prediction of solution properties and dynamics of RNAs by means of Brownian dynamics simulation of coarse-grained models: Ribosomal 5S RNA and phenylalanine transfer RNA. <i>BMC Biophysics</i> , 2015, 8, 11.	4.4	9
16	Multi-Scale Simulation of Hyperbranched Polymers. <i>Polymers</i> , 2015, 7, 610-628.	4.5	7
17	Aggregation behaviour of gold nanoparticles in presence of chitosan. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	19
18	The Protein Acetyltransferase PatZ from <i>Escherichia coli</i> Is Regulated by Autoacetylation-induced Oligomerization. <i>Journal of Biological Chemistry</i> , 2015, 290, 23077-23093.	3.4	29

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19	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
20	Aggregation behaviour of gold nanoparticles in saline aqueous media. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	160
21	Influence of ionic strength on the flexibility of alginate studied by size exclusion chromatography. Carbohydrate Polymers, 2014, 102, 223-230.	10.2	28
22	Ionic strength effect in polyelectrolyte dilute solutions within the Debye-Hückel approximation: Monte Carlo and Brownian dynamics simulations. Polymer Bulletin, 2014, 71, 2269-2285.	3.3	4
23	Analytical ultracentrifugation studies of oligomerization and DNA-binding of TtCarH, a Thermus thermophilus coenzyme B12-based photosensory regulator. European Biophysics Journal, 2013, 42, 463-476.	2.2	31
24	Prediction of Hydrodynamic and Other Solution Properties of Partially Disordered Proteins with a Simple, Coarse-Grained Model. Journal of Chemical Theory and Computation, 2013, 9, 1678-1685.	5.3	23
25	Hydrodynamic modelling of protein conformation in solution: ELLIPS and HYDRO. Biophysical Reviews, 2013, 5, 195-206.	3.2	29
26	Effect of Water Deficit and Domestic Storage on the Procyanidin Profile, Size, and Aggregation Process in Pear-Jujube ( <i>Z. jujuba</i> ) Fruits. Journal of Agricultural and Food Chemistry, 2013, 61, 6187-6197.	5.2	28
27	The Histidine-Phosphocarrier Protein of the Phosphoenolpyruvate: Sugar Phosphotransferase System of <i>Bacillus sphaericus</i> Self-Associates. PLoS ONE, 2013, 8, e69307.	2.5	8
28	HYDRO Suite of Computer Programs for Solution Properties of Rigid Macromolecules. , 2013, , 1002-1006.		1
29	Translational diffusion coefficients of macromolecules. European Physical Journal E, 2012, 35, 9806.	1.6	15
30	Characterization of low molecular mass thermosensitive diblock copolymers and their self-assembly by means of analytical ultracentrifugation. Colloid and Polymer Science, 2012, 290, 297-306.	2.1	4
31	Hydrodynamic Properties of Wormlike Macromolecules: Monte Carlo Simulation and Global Analysis of Experimental Data. Macromolecules, 2011, 44, 5788-5797.	4.8	38
32	Prediction of Hydrodynamic and Other Solution Properties of Rigid Proteins from Atomic- and Residue-Level Models. Biophysical Journal, 2011, 101, 892-898.	0.5	569
33	Effect of polyethylene glycol (PEG) length on the association properties of temperature-sensitive amphiphilic triblock copolymers (PNIPAAm-b-PEGn-b-PNIPAAm) in aqueous solution. Soft Matter, 2011, 7, 8111.	2.7	21
34	Global fit and structure optimization of flexible and rigid macromolecules and nanoparticles from analytical ultracentrifugation and other dilute solution properties. Methods, 2011, 54, 115-123.	3.8	11
35	Brownian dynamics simulation of analytical ultracentrifugation experiments. BMC Biophysics, 2011, 4, 6.	4.4	10
36	Comparison of Brownian dynamics algorithms with hydrodynamic interaction. Journal of Chemical Physics, 2011, 135, 084116.	3.0	34

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37	Multi-scale calculation and global-fit analysis of hydrodynamic properties of biological macromolecules: determination of the overall conformation of antibody IgG molecules. <i>European Biophysics Journal</i> , 2010, 39, 361-370.	2.2	12
38	Intrinsic viscosity of bead models for macromolecules and nanoparticles. <i>European Biophysics Journal</i> , 2010, 39, 381-388.	2.2	20
39	Methods and Tools for the Prediction of Hydrodynamic Coefficients and Other Solution Properties of Flexible Macromolecules in Solution. A Tutorial Minireview. <i>Macromolecular Bioscience</i> , 2010, 10, 721-730.	4.1	9
40	Characterization of polyelectrolyte features in polysaccharide systems and mucin. <i>Advances in Colloid and Interface Science</i> , 2010, 158, 108-118.	14.7	30
41	The influence of mono and divalent cations on dilute and non-dilute aqueous solutions of sodium alginates. <i>Carbohydrate Polymers</i> , 2010, 80, 248-253.	10.2	68
42	Kerr constant of multi-subunit particles and semiflexible, wormlike chains. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 494104.	1.8	2
43	Single-Molecule Behavior of Asymmetric Thermoresponsive Amphiphilic Copolymers in Dilute Solution. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8887-8893.	2.6	15
44	A Multiscale Scheme for the Simulation of Conformational and Solution Properties of Different Dendrimer Molecules. <i>Journal of the American Chemical Society</i> , 2009, 131, 8548-8556.	13.7	35
45	Hydrodynamic Analysis of Well-Defined Flexible Linear Macromolecules of Low Molar Mass. <i>Macromolecules</i> , 2009, 42, 7447-7455.	4.8	17
46	SIMUFLEX: Algorithms and Tools for Simulation of the Conformation and Dynamics of Flexible Molecules and Nanoparticles in Dilute Solution. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2606-2618.	5.3	30
47	Determination of intrinsic viscosities of macromolecules and nanoparticles. Comparison of single-point and dilution procedures. <i>Colloid and Polymer Science</i> , 2008, 286, 1223-1231.	2.1	194
48	Molecular Flexibility of Methylcelluloses of Differing Degree of Substitution by Combined Sedimentation and Viscosity Analysis. <i>Macromolecular Bioscience</i> , 2008, 8, 1108-1115.	4.1	33
49	Global hydrodynamic analysis of the molecular flexibility of galactomannans. <i>Carbohydrate Polymers</i> , 2008, 72, 356-360.	10.2	44
50	Global conformation analysis of irradiated xyloglucans. <i>Carbohydrate Polymers</i> , 2008, 74, 845-851.	10.2	49
51	Molecular flexibility of citrus pectins by combined sedimentation and viscosity analysis. <i>Food Hydrocolloids</i> , 2008, 22, 1435-1442.	10.7	78
52	Prediction of solution properties of flexible-chain polymers: a computer simulation undergraduate experiment. <i>European Journal of Physics</i> , 2008, 29, 945-956.	0.6	2
53	Improved Calculation of Rotational Diffusion and Intrinsic Viscosity of Bead Models for Macromolecules and Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 955-961.	2.6	141
54	Equivalent Radii and Ratios of Radii from Solution Properties as Indicators of Macromolecular Conformation, Shape, and Flexibility. <i>Biomacromolecules</i> , 2007, 8, 2464-2475.	5.4	86

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55	Solution Conformation of Wild-Type and Mutant IgG3 and IgG4 Immunoglobulins Using Crystallohydrodynamics: Possible Implications for Complement Activation. <i>Biophysical Journal</i> , 2007, 93, 3733-3744.	0.5	59
56	Dynamic electro-optic properties of macromolecules and nanoparticles in solution: A review of computational and simulation methodologies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 56, 4-15.	5.0	15
57	Improved simulation method for the calculation of the intrinsic viscosity of some dendrimer molecules. <i>Polymer</i> , 2007, 48, 1155-1163.	3.8	13
58	Brownian dynamics simulation of reversible polymer networks using a non-interacting bead-and-spring chain model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 146, 3-10.	2.4	11
59	Brownian dynamics simulation of polyelectrolyte dilute solutions under shear flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1-9.	2.1	15
60	Brownian dynamics simulation of polyelectrolyte dilute solutions: Relaxation time and elongational flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 714-722.	2.1	11
61	Relaxation time of non-linear polymers in dilute solution via computer simulation. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5081-5086.	3.1	6
62	Crystallohydrodynamics of Protein Assemblies: Combining Sedimentation, Viscometry, and X-Ray Scattering. <i>Biophysical Journal</i> , 2006, 91, 1688-1697.	0.5	17
63	Characterization of Interactions in Aqueous Solutions of Hydroxyethylcellulose and Its Hydrophobically Modified Analogue in the Presence of a Cyclodextrin Derivative. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6601-6608.	2.6	42
64	Organization of Human Interferon $\beta$ -Heparin Complexes from Solution Properties and Hydrodynamics. <i>Biochemistry</i> , 2006, 45, 13227-13238.	2.5	18
65	Multi-Scale Simulation of the Conformation and Dynamics of Dendrimeric Macromolecules. <i>Macromolecular Symposia</i> , 2006, 245-246, 386-389.	0.7	1
66	Steady-state behavior of star polymers in dilute flowing solutions via Brownian dynamics. <i>Polymer</i> , 2005, 46, 6756-6766.	3.8	10
67	MULTIHYDRO and MONTEHYDRO: Conformational search and Monte Carlo calculation of solution properties of rigid or flexible bead models. <i>Biophysical Chemistry</i> , 2005, 116, 121-128.	2.8	27
68	Steady-state behavior of ring polymers in dilute flowing solutions via Brownian dynamics. <i>Polymer</i> , 2005, 46, 267-274.	3.8	24
69	Transient electric birefringence of wormlike macromolecules in electric fields of arbitrary strength: A computer simulation study. <i>Journal of Chemical Physics</i> , 2005, 122, 124902.	3.0	6
70	Non-Newtonian Viscosity of Dilute Polymer Solutions. <i>Macromolecules</i> , 2005, 38, 1371-1377.	4.8	25
71	Efficient, Accurate Calculation of Rotational Diffusion and NMR Relaxation of Globular Proteins from Atomic-Level Structures and Approximate Hydrodynamic Calculations. <i>Journal of the American Chemical Society</i> , 2005, 127, 12764-12765.	13.7	26
72	Hydrodynamic Models and Computational Methods for NMR Relaxation. <i>Methods in Enzymology</i> , 2005, 394, 419-430.	1.0	10

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73	Studying Antibody Conformations by Ultracentrifugation and Hydrodynamic Modeling. , 2004, 248, 93-114.		7
74	Interpretation of NMR relaxation properties of Pin1, a two-domain protein, based on Brownian dynamic simulations. Journal of Biomolecular NMR, 2004, 29, 21-35.	2.8	27
75	Macromolecular crowding in biological systems: hydrodynamics and NMR methods. Journal of Molecular Recognition, 2004, 17, 397-407.	2.1	47
76	Orientation of Polymer Chains in Dilute Solution under Shear: Effect of Chain Model and Excluded Volume. Macromolecular Theory and Simulations, 2004, 13, 273-279.	1.4	8
77	Calculation of the solution properties of flexible macromolecules: methods and applications. European Biophysics Journal, 2003, 32, 477-486.	2.2	35
78	Estimating domain orientation of two human antibody IgG4 chimeras by crystallohydrodynamics. European Biophysics Journal, 2003, 32, 503-510.	2.2	13
79	Hydrodynamic properties of rodlike and disklike particles in dilute solution. Journal of Chemical Physics, 2003, 119, 9914-9919.	3.0	279
80	Multiple Linear Least-Squares Fits with a Common Intercept: Determination of the Intrinsic Viscosity of Macromolecules in Solution. Journal of Chemical Education, 2003, 80, 1036.	2.3	13
81	Birefringence, Deformation, and Scattering of Wormlike Macromolecules under an External Agent. Steady-State Properties in an Electric Field. Journal of Physical Chemistry B, 2003, 107, 13192-13200.	2.6	3
82	Combined Use of NMR Relaxation Measurements and Hydrodynamic Calculations To Study Protein Association. Evidence for Tetramers of Low Molecular Weight Protein Tyrosine Phosphatase in Solution. Journal of the American Chemical Society, 2003, 125, 916-923.	13.7	38
83	Radiation Scattering by Dilute Polymer Solutions in Shear Flow: An Example of Mesoscale Modeling and Brownian Dynamics Simulation. Applied Rheology, 2003, 13, 200-208.	5.2	1
84	Calculation of hydrodynamic properties of small nucleic acids from their atomic structure. Nucleic Acids Research, 2002, 30, 1782-1788.	14.5	73
85	Influence of Field Strength and Flexibility on the Transient Electric Birefringence of Segmentally Flexible Macromolecules. Journal of Physical Chemistry B, 2002, 106, 6754-6761.	2.6	4
86	Brownian dynamics simulation of the unsaturated lipidic molecules oleic and docosahexaenoic acid confined in a cellular membrane. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1565, 29-35.	2.6	14
87	Brownian Dynamics Simulation of Rigid Particles of Arbitrary Shape in External Fields. Biophysical Journal, 2002, 83, 3039-3048.	0.5	99
88	Hydrodynamic properties of rigid macromolecules composed of ellipsoidal and cylindrical subunits. Biopolymers, 2002, 63, 163-167.	2.4	58
89	Joint determination by Brownian dynamics and fluorescence quenching of the in-depth location profile of biomolecules in membranes. Analytical Biochemistry, 2002, 307, 1-12.	2.4	48
90	Interpretation of <sup>15</sup> N NMR relaxation data of globular proteins using hydrodynamic calculations with HYDRONMR. Journal of Biomolecular NMR, 2002, 23, 139-150.	2.8	76

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91	Hydrodynamic properties of rigid macromolecules composed of ellipsoidal and cylindrical subunits. <i>Biopolymers</i> , 2002, 63, 163.	2.4	5
92	The Conformation of Serum Albumin in Solution: A Combined Phosphorescence Depolarization-Hydrodynamic Modeling Study. <i>Biophysical Journal</i> , 2001, 80, 2422-2430.	0.5	234
93	An Analytical Solution to the Problem of the Orientation of Rigid Particles by Planar Obstacles. Application to Membrane Systems and to the Calculation of Dipolar Couplings in Protein NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 12037-12047.	13.7	54
94	HYDROMIC: prediction of hydrodynamic properties of rigid macromolecular structures obtained from electron microscopy images. <i>European Biophysics Journal</i> , 2001, 30, 457-462.	2.2	45
95	Hydration from hydrodynamics. General considerations and applications of bead modelling to globular proteins. <i>Biophysical Chemistry</i> , 2001, 93, 159-170.	2.8	95
96	Crystallohydrodynamics for solving the hydration problem for multi-domain proteins: open physiological conformations for human IgG. <i>Biophysical Chemistry</i> , 2001, 93, 181-196.	2.8	65
97	Building hydrodynamic bead-shell models for rigid bioparticles of arbitrary shape. <i>Biophysical Chemistry</i> , 2001, 94, 265-274.	2.8	41
98	Kinetic aspects of the coil-stretch transition of polymer chains in dilute solution under extensional flow. <i>Journal of Chemical Physics</i> , 2001, 115, 9578-9584.	3.0	22
99	HYDRONMR: Prediction of NMR Relaxation of Globular Proteins from Atomic-Level Structures and Hydrodynamic Calculations. <i>Journal of Magnetic Resonance</i> , 2000, 147, 138-146.	2.1	493
100	Calculation of Hydrodynamic Properties of Globular Proteins from Their Atomic-Level Structure. <i>Biophysical Journal</i> , 2000, 78, 719-730.	0.5	1,001
101	Conformation and dynamic properties of a saturated hydrocarbon chain confined in a model membrane: a Brownian dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1463, 131-141.	2.6	9
102	Transient Electric Birefringence of Segmentally Flexible Macromolecules in Electric Fields of Arbitrary Strength. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12339-12346.	2.6	6
103	A Brownian Dynamics Simulation of an Acyl Chain and atrans-Parinaric Acid Molecule Confined in a Phospholipid Bilayer in the Gel and Liquid-Crystal Phases. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11579-11584.	2.6	8
104	Improved hydrodynamic interaction in macromolecular bead models. <i>Journal of Chemical Physics</i> , 1999, 111, 4817-4826.	3.0	61
105	Simulation of the distribution and diffusion of a rigid amphipathic particle embedded in a model membrane. <i>Biophysical Chemistry</i> , 1999, 79, 41-53.	2.8	5
106	Calculation of NMR relaxation, covolume, and scattering-related properties of bead models using the SOLPRO computer program. <i>European Biophysics Journal</i> , 1999, 28, 119-132.	2.2	49
107	Calculation of hydrodynamic properties of macromolecular bead models with overlapping spheres. <i>European Biophysics Journal</i> , 1999, 28, 510-515.	2.2	42
108	Novel Size-Independent Modeling of the Dilute Solution Conformation of the Immunoglobulin IgG Fab <sup>2</sup> Domain Using SOLPRO and ELLIPS. <i>Biophysical Journal</i> , 1999, 77, 2902-2910.	0.5	29

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109	Hydrodynamic Properties of Rigid Particles: Comparison of Different Modeling and Computational Procedures. <i>Biophysical Journal</i> , 1999, 76, 3044-3057.	0.5	249
110	Birefringence, Deformation, and Scattering of Segmentally Flexible Macromolecules under an External Agent. Steady-State Properties in an Electric Field. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7822-7830.	2.6	7
111	Steady-state properties and dynamic behavior of polymer chains in dilute solution under elongational flow. <i>Macromolecular Symposia</i> , 1999, 146, 125-131.	0.7	0
112	Fracture of DNA in transient extensional flow. A numerical simulation study. <i>Biopolymers</i> , 1998, 39, 435-444.	2.4	5
113	Intrinsic viscosity and rotational diffusion of bead models for rigid macromolecules and bioparticles. <i>European Biophysics Journal</i> , 1998, 27, 549-557.	2.2	38
114	Anaesthetic Mechanism on a Model Biological Membrane: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 1998, 102, 625-631.	2.6	30
115	Advances in modelling solution properties of macromolecules and particles. <i>Biochemical Society Transactions</i> , 1998, 26, 716-721.	3.4	5
116	Models for the multisubunit conformation of oil-seed globulins. <i>Biochemical Society Transactions</i> , 1998, 26, 721-725.	3.4	1
117	Usefulness of the Bead Model Algorithm SOLPRO for Modeling the Conformation of Seed Globulins. , 1998, , 152-155.		0
118	Simulation of the conformation and dynamics of a double-helical model for DNA. <i>Biophysical Journal</i> , 1997, 73, 3142-3153.	0.5	29
119	Effect of lithium and sodium ions on a charged membrane of dipalmitoylphosphatidylserine: A study by molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1330, 145-156.	2.6	28
120	Fracture of flexible polymer chains in dilute solution under transient extensional flow. <i>Colloid and Polymer Science</i> , 1997, 275, 1001-1009.	2.1	4
121	SOLPRO: theory and computer program for the prediction of SOLUTION PROPERTIES of rigid macromolecules and bioparticles. <i>European Biophysics Journal</i> , 1997, 25, 361-372.	2.2	76
122	Molecular dynamics simulation of a dye molecule in the interior of a bilayer: 1,6-diphenyl-1,3,5-hexatriene in dipalmitoylphosphatidylcholine. <i>Biophysical Chemistry</i> , 1997, 69, 1-8.	2.8	26
123	Deformation, scattering, and birefringence of flexible polymer chains under external forces or electric fields. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 689-697.	2.1	10
124	Distribution and diffusivity of a hydrophobic probe molecule in the interior of a membrane: theory and simulation. <i>Biophysical Journal</i> , 1996, 71, 1428-1439.	0.5	21
125	Conformation and Fracture of Polystyrene Chains in Extensional Flow Studied by Numerical Simulation. <i>Macromolecules</i> , 1996, 29, 3603-3610.	4.8	19
126	Gaussian chains with excluded volume and hydrodynamic interaction: shear rate dependence of radius of gyration, intrinsic viscosity and flow birefringence. <i>Polymer</i> , 1996, 37, 1317-1322.	3.8	19



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127	Molecular dynamics simulation of a charged biological membrane. <i>Journal of Chemical Physics</i> , 1996, 104, 2713-2720.	3.0	118
128	Molecular Dynamics Simulation of Water between Two Charged Layers of Dipalmitoylphosphatidylserine. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8621-8627.	2.9	46
129	Transient Orientation and Electrooptical Properties of Axially Symmetric Macromolecules in an Electric Field of Arbitrary Strength. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9900-9905.	2.9	12
130	Fracture of DNA in transient extensional flow. A numerical simulation study. <i>Biopolymers</i> , 1996, 39, 435-444.	2.4	1
131	Numerical analysis of the rotational relaxation time of spectrin segments and spectrin heterodimer in dilute aqueous solution. <i>Macromolecular Theory and Simulations</i> , 1995, 4, 253-275.	1.4	3
132	Simulation of non-linear models for polymer chains in flowing solutions. <i>Polymer</i> , 1995, 36, 345-351.	3.8	22
133	Relaxation times in transient electric birefringence and electric field light scattering of flexible polymer chains. <i>Journal of Chemical Physics</i> , 1995, 103, 7631-7639.	3.0	17
134	Simulation of Fracture of Flexible Polymer Chains in Transient Elongational Flow. <i>Macromolecules</i> , 1995, 28, 4660-4664.	4.8	9
135	Hydrodynamics of segmentally flexible macromolecules. <i>European Biophysics Journal</i> , 1994, 23, 307-322.	2.2	47
136	HYDRO: a computer program for the prediction of hydrodynamic properties of macromolecules. <i>Biophysical Journal</i> , 1994, 67, 530-531.	0.5	293
137	Hydrodynamic properties of a double-helical model for DNA. <i>Biophysical Journal</i> , 1994, 66, 1573-1579.	0.5	42
138	Appendix: Hydrodynamic Analysis of Tubulin Dimer and Double Rings. <i>Journal of Molecular Biology</i> , 1994, 238, 223-225.	4.2	4
139	Viscoelastic Properties of Semiflexible Macromolecules in Solution: Brownian Dynamics Simulation of a Trumbell Model. <i>Macromolecules</i> , 1994, 27, 5371-5376.	4.8	6
140	Bead-model calculation of scattering diagrams: Brownian dynamics study of flexibility in immunoglobulin IgG1. <i>Journal of Proteomics</i> , 1993, 26, 261-271.	2.4	10
141	Flow birefringence of flexible polymer chains in steady shear flow: a Brownian dynamics simulation. <i>Macromolecules</i> , 1993, 26, 3851-3857.	4.8	12
142	Simulation of polymer chains in elongational flow. Kinetics of chain fracture and fragment distribution. <i>Journal of Chemical Physics</i> , 1992, 97, 4549-4554.	3.0	22
143	Deformation, orientation, and scattering from polymer chains in shear flow. A Brownian dynamics simulation study. <i>Macromolecules</i> , 1992, 25, 3574-3580.	4.8	33
144	Brownian dynamics simulation of flexible polymer chains with excluded volume and hydrodynamic interactions. A comparison with Monte Carlo and theoretical results. <i>Polymer</i> , 1992, 33, 3477-3481.	3.8	27

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145	Monte Carlo calculation of hydrodynamic properties of linear and cyclic polymers in good solvents. <i>Macromolecules</i> , 1991, 24, 593-598.	4.8	59
146	Translational diffusion, relaxation times, and quasi-elastic scattering of flexible chains with excluded volume and fluctuating hydrodynamic interactions: a Brownian dynamics study. <i>Macromolecules</i> , 1991, 24, 4666-4672.	4.8	20
147	Buildup of electrooptic properties of axially symmetric macromolecules in fields of arbitrary strength studied by Brownian dynamics simulation. <i>The Journal of Physical Chemistry</i> , 1991, 95, 952-955.	2.9	8
148	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1991, 192, 935-943.	1.1	1
149	Shear-rate dependence of the intrinsic viscosity of bead-and-spring chains: hydrodynamic interaction and excluded-volume effects. <i>Polymer</i> , 1991, 32, 3359-3363.	3.8	16
150	The molecular weight distribution and conformation of citrus pectins in solution studied by hydrodynamics. <i>Carbohydrate Polymers</i> , 1991, 16, 1-15.	10.2	81
151	Rotational Brownian dynamics of semiflexible broken rods. <i>Journal of Fluorescence</i> , 1991, 1, 129-134.	2.5	4
152	Simulation of polymer chains in elongational flow. Steady-state properties and chain fracture. <i>Journal of Chemical Physics</i> , 1991, 95, 9384-9392.	3.0	32
153	Time course of the orientation and birefringence of axially symmetric macromolecules on reversal of an electric field of arbitrary strength. <i>The Journal of Physical Chemistry</i> , 1991, 95, 5661-5664.	2.9	5
154	Computer simulation of hydrodynamic properties of semiflexible macromolecules: Randomly broken chains, wormlike chains, and analysis of properties of DNA. <i>Biopolymers</i> , 1990, 29, 883-900.	2.4	19
155	Hydrodynamic study of flexibility in immunoglobulin igG1 using Brownian dynamics and the Monte Carlo simulations of a simple model. <i>Biopolymers</i> , 1990, 30, 547-554.	2.4	13
156	Frequency-dependent viscosity of linear, ring, and star Gaussian chains with fluctuating hydrodynamic interactions. <i>Journal of Chemical Physics</i> , 1990, 92, 6278-6282.	3.0	7
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