

Paul S Russo

List of Publications by Year in descending order

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118
papers

5,352
citations

147726

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h-index

95218

68
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118
all docs

118
docs citations

118
times ranked

6415
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transitions in the assembly of multivalent signalling proteins. <i>Nature</i> , 2012, 483, 336-340.	13.7	1,938
2	Solubility and properties of a poly(aryl ether ketone) in strong acids. <i>Macromolecules</i> , 1985, 18, 86-93.	2.2	289
3	Cascade molecules. Part 6. Synthesis and characterization of two-directional cascade molecules and formation of aqueous gels. <i>Journal of the American Chemical Society</i> , 1990, 112, 8458-8465.	6.6	230
4	Chemistry of micelles series. Part 2. Cascade molecules. Synthesis and characterization of a benzene[9]3-arborol. <i>Journal of the American Chemical Society</i> , 1986, 108, 849-850.	6.6	208
5	Hexagonal Terpyridine- Ruthenium and Iron Macrocylic Complexes by Stepwise and Self-Assembly Procedures. <i>Chemistry - A European Journal</i> , 2002, 8, 2946.	1.7	118
6	Two-directional cascade molecules: synthesis and characterization of [9]-n-[9] arborols. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 752.	2.0	116
7	Self- and Directed Assembly of Hexaruthenium Macrocycles. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3717-3721.	7.2	116
8	Synthesis and Rapid Characterization of Amine-Functionalized Silica. <i>Langmuir</i> , 2012, 28, 5562-5569.	1.6	114
9	A Novel Solubility-Enhanced Curcumin Formulation Showing Stability and Maintenance of Anticancer Activity. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2778-2789.	1.6	80
10	Diffusion of Dextran in Aqueous (Hydroxypropyl)cellulose. <i>Macromolecules</i> , 1994, 27, 1187-1194.	2.2	76
11	Characterization of the Self-Assembly of <i>meso</i> -Tetra(4-sulfonatophenyl)porphyrin (H ₂ TPPS ⁴⁻) in Aqueous Solutions. <i>Biomacromolecules</i> , 2012, 13, 60-72.	2.6	75
12	Dye diffusion in isotropic and liquid-crystalline aqueous (hydroxypropyl)cellulose. <i>Macromolecules</i> , 1993, 26, 370-378.	2.2	71
13	Mesophase separation and probe dynamics in protein-polyelectrolyte coacervates. <i>Soft Matter</i> , 2007, 3, 1064-1076.	1.2	70
14	Liquid Crystalline Poly(3-hexylthiophene) Solutions Revisited: Role of Time-Dependent Self-Assembly. <i>Chemistry of Materials</i> , 2015, 27, 2687-2694.	3.2	64
15	The surface activity of the phytotoxin cerato-ulmin. <i>Canadian Journal of Botany</i> , 1982, 60, 1414-1422.	1.2	58
16	A Detergent-like Mechanism of Action of the Cytolytic Toxin Cyt1A from <i>Bacillus thuringiensis</i> var. <i>israelensis</i> . <i>Biochemistry</i> , 2005, 44, 589-597.	1.2	58
17	Time-resolved fluorescence of the single tryptophan of <i>Bacillus stearothermophilus</i> phosphofructokinase. <i>Biophysical Journal</i> , 1993, 65, 215-226.	0.2	57
18	Preparation of Organosoluble Silica-Polypeptide Particles by Click-Chemistry. <i>Macromolecules</i> , 2010, 43, 62-70.	2.2	52

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19	Coexistence of liquid crystalline phases in poly($\hat{\text{I}}^3$ -benzyl $\hat{\text{I}}^\pm$,L-glutamate)-dimethylformamide. <i>Macromolecules</i> , 1983, 16, 1690-1693.	2.2	51
20	On the nature of the poly($\hat{\text{I}}^3$ -benzyl glutamate)-dimethylformamide "complex phase". <i>Macromolecules</i> , 1984, 17, 1324-1331.	2.2	49
21	Thermodynamic and dynamic behavior of semiflexible polymers in the isotropic phase. <i>Macromolecules</i> , 1991, 24, 6139-6155.	2.2	48
22	Study of Rodlike Homopolypeptides by Gel Permeation Chromatography with Light Scattering Detection: Validity of Universal Calibration and Stiffness Assessment. <i>Macromolecules</i> , 2001, 34, 582-586.	2.2	48
23	Self-Diffusion of Rodlike Polymers in Isotropic Solutions. <i>Macromolecules</i> , 1994, 27, 6871-6882.	2.2	45
24	Thermoreversible Gelation of a Rodlike Polymer. <i>Macromolecules</i> , 1996, 29, 7402-7411.	2.2	43
25	Tracer diffusion of proteins in DNA solutions. <i>Macromolecules</i> , 1992, 25, 5263-5265.	2.2	41
26	Rotational and Translational Diffusion of Tobacco Mosaic Virus in Extended and Globular Polymer Solutions. <i>Macromolecules</i> , 2004, 37, 9577-9584.	2.2	41
27	Rotational and Translational Diffusion of a Rodlike Virus in Random Coil Polymer Solutions. <i>Macromolecules</i> , 1997, 30, 4920-4926.	2.2	38
28	Dynamics of Poly(styrenesulfonate) Sodium Salt in Aqueous Solution. <i>Macromolecules</i> , 2006, 39, 731-739.	2.2	38
29	Hydrodynamic Studies on the Manganese-Stabilizing Protein of Photosystem II. <i>Biochemistry</i> , 1998, 37, 13553-13558.	1.2	36
30	Organophilic Colloidal Particles with a Synthetic Polypeptide Coating. <i>Langmuir</i> , 1999, 15, 4421-4426.	1.6	36
31	Dynamic light scattering study of semidilute solutions of a stiff chain polymer. <i>Journal of Chemical Physics</i> , 1984, 80, 5312-5325.	1.2	35
32	Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts. <i>Small</i> , 2018, 14, e1802060.	5.2	34
33	Zero-angle depolarized light scattering of a colloidal polymer. <i>Analytica Chimica Acta</i> , 1986, 189, 69-87.	2.6	32
34	Reformulation of etoposide with solubility-enhancing rubusoside. <i>International Journal of Pharmaceutics</i> , 2012, 434, 453-459.	2.6	30
35	Interactions between polystyrene latex spheres and a semiflexible polymer, hydroxypropylcellulose. <i>Journal of Colloid and Interface Science</i> , 1988, 122, 120-137.	5.0	29
36	Synthesis and Some Solution Properties of Poly(γ -stearyl α ,L-glutamate). <i>Macromolecules</i> , 1995, 28, 6745-6753.	2.2	29

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37	Nature and effects of nonexponential correlation functions in probe diffusion experiments by quasielastic light scattering. <i>Journal of Colloid and Interface Science</i> , 1989, 129, 240-253.	5.0	27
38	Light Scattering Study of Magnetic Latex Particles and Their Interaction with Polyelectrolytes. <i>Journal of Colloid and Interface Science</i> , 1996, 177, 31-44.	5.0	23
39	Colloidal Crystals of Silica~Homopolyptide Composite Particles. <i>Langmuir</i> , 2004, 20, 266-269.	1.6	23
40	The solubility and surface activity of the <i>Ceratocystis ulmi</i> toxin cerato-ulmin. <i>Physiological Plant Pathology</i> , 1981, 19, 113-126.	1.4	22
41	Following Polymer Gelation by Depolarized Dynamic Light Scattering from Optically and Geometrically Anisotropic Latex Particles. <i>Langmuir</i> , 1994, 10, 4053-4059.	1.6	22
42	Thermoreversible Gelation of Isotropic and Liquid Crystalline Solutions of a "Sticky" Rodlike Polymer. <i>Macromolecules</i> , 2000, 33, 4427-4432.	2.2	22
43	Silica~Polypeptide Composite Particles: Controlling Shell Growth. <i>Langmuir</i> , 2010, 26, 15604-15613.	1.6	22
44	Late stages of phase separation/gelation of isotropic solutions of rodlike polymers by video microscopy. <i>Journal of Chemical Physics</i> , 1990, 92, 5744-5750.	1.2	21
45	Cytotoxic and antiangiogenic paclitaxel solubilized and permeation-enhanced by natural product nanoparticles. <i>Anti-Cancer Drugs</i> , 2015, 26, 167-179.	0.7	21
46	Formation of a Rigid Hydrophobin Film and Disruption by an Anionic Surfactant at an Air/Water Interface. <i>Langmuir</i> , 2016, 32, 5542-5551.	1.6	20
47	Protein-Assisted Assembly of β -Conjugated Polymers. <i>Chemistry of Materials</i> , 2016, 28, 573-582.	3.2	20
48	Light scattering and fluorescence photobleaching recovery study of poly(amidoamine) cascade polymers in aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 1467-1475.	2.4	19
49	Asymmetric Flow Field-Flow Fractionation with Multiangle Light Scattering Detection for Characterization of Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2012, 13, 2671-2679.	2.6	19
50	Progress in silica polypeptide composite colloidal hybrids: from silica cores to fuzzy shells. <i>Colloid and Polymer Science</i> , 2014, 292, 1009-1040.	1.0	19
51	Enhanced Alignment of Water-Soluble Polythiophene Using Cellulose Nanocrystals as a Liquid Crystal Template. <i>Biomacromolecules</i> , 2017, 18, 1556-1562.	2.6	19
52	Factors Affecting the Size of Aqueous Poly(vinylphenol-co-potassium styrenesulfonate)/Poly(ethylene Terephthalate) Overlock 10 T	2.2	18
53	Monolayer properties of a fuzzy rod polymer: Poly(β -stearyl L-glutamate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 3025-3034.	2.4	17
54	Structural Changes and Aggregation of Human Influenza Virus. <i>Biomacromolecules</i> , 2004, 5, 1728-1735.	2.6	17

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55	Observation of a porous gel structure in poly(p-phenylenebenzobisthiazole)/97% sulfuric acid. <i>Macromolecules</i> , 1986, 19, 2856-2859.	2.2	15
56	Temperature ramped fluorescence photobleaching recovery for the direct evaluation of thermoreversible gels. <i>Macromolecules</i> , 1989, 22, 1500-1504.	2.2	15
57	Self-Diffusion of a Rodlike Virus in the Isotropic Phase. <i>Macromolecules</i> , 2002, 35, 8659-8662.	2.2	15
58	Probe diffusion from dilute to concentrated in polyelectrolyte solution: Salt effect. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 469-475.	5.0	15
59	Cellulose Nanocrystal-Polyelectrolyte Hybrids for Bentonite Water-Based Drilling Fluids. <i>ACS Applied Bio Materials</i> , 2020, 3, 3015-3027.	2.3	15
60	β -Amyloid Protein Aggregation. , 2007, 386, 203-225.		15
61	A Perspective on Reversible Gels and Related Systems. <i>ACS Symposium Series</i> , 1987, , 1-21.	0.5	14
62	Fluid-liquid equilibria in poly(ethylene-co-hexene-1)+propane: a light-scattering probe of cloud-point pressure and critical polymer concentration. <i>Fluid Phase Equilibria</i> , 2000, 173, 149-158.	1.4	14
63	Preparation of Metalloporphyrin-Bound Superparamagnetic Silica Particles via Click-Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 792-801.	4.0	14
64	Silica-Conjugated Polymer Hybrid Fluorescent Nanoparticles: Preparation by Surface-Initiated Polymerization and Spectroscopic Studies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6963-6975.	1.5	14
65	On the Use of Pattern Fluorescence Photobleaching Recovery with Modulation Detection to Obtain Colloidal Size Distributions. <i>Journal of Colloid and Interface Science</i> , 2001, 239, 374-379.	5.0	13
66	Diffusion of Dextran Probes in a Self-Assembled Fibrous Gel Composed of Two-Dimensional Arborols. <i>Journal of Physical Chemistry B</i> , 2008, 112, 29-35.	1.2	13
67	Sculpting the internal architecture of fluorescent silica particles via a template-free approach. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 321-334.	5.0	13
68	Observations on the thermoreversible gelation of two-directional arborols in water-methanol mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 2787-2793.	2.4	12
69	A New Synthesis of Fluorescein Isothiocyanate Labeled Poly(styrenesulfonate sodium salt). <i>Macromolecules</i> , 2004, 37, 4731-4735.	2.2	12
70	Reversibility of β -Amyloid Self-Assembly: Effects of pH and Added Salts Assessed by Fluorescence Photobleaching Recovery. <i>Biomacromolecules</i> , 2010, 11, 341-347.	2.6	12
71	Synthesis of perfectly sulfonated sodium polystyrene sulfonate over a wide molar mass range via reversible-deactivation radical polymerization. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1527-1537.	2.5	12
72	Physical Properties of Sodium Poly(styrene sulfonate): Comparison to Incompletely Sulfonated Polystyrene. <i>Macromolecules</i> , 2022, 55, 1747-1762.	2.2	12

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73	Domed Silica Microcylinders Coated with Oleophilic Polypeptides and Their Behavior in Lyotropic Cholesteric Liquid Crystals of the Same Polypeptide. <i>Langmuir</i> , 2016, 32, 13137-13148.	1.6	11
74	Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 98-106.	2.5	11
75	Surface Properties of a Series of Amphiphilic Dendrimers with Short Hydrophobic Chains. <i>Langmuir</i> , 2008, 24, 1858-1862.	1.6	10
76	Determination of Particle Size Distributions, Molecular Weight Distributions, Swelling, Conformation, and Morphology of Dilute Suspensions of Cross-Linked Polymeric Nanoparticles via Size-Exclusion Chromatography/Differential Viscometry. <i>Macromolecules</i> , 2014, 47, 6715-6729.	2.2	10
77	Synergistic Reinforcement of Composite Hydrogels with Nanofiber Mixtures of Cellulose Nanocrystals and Chitin Nanofibers. <i>Biomacromolecules</i> , 2021, 22, 340-352.	2.6	10
78	Dynamic light scattering from ternary solutions of semiflexible polymers. <i>Macromolecules</i> , 1985, 18, 2733-2738.	2.2	9
79	Light scattering from random coils dispersed in a solution of rodlike polymers. <i>Macromolecules</i> , 1994, 27, 171-178.	2.2	9
80	Self-diffusion of a semiflexible polymer measured across the lyotropic liquid-crystalline-phase boundary. <i>Journal of Chemical Physics</i> , 1999, 111, 1746-1752.	1.2	9
81	Teaching Light Scattering to Reinforce Basic Principles. <i>Journal of Chemical Education</i> , 1999, 76, 1534.	1.1	9
82	Matrix Fluorescence Photobleaching Recovery for Polymer Molecular Weight Distributions and Other Applications. <i>Macromolecules</i> , 2006, 39, 9446-9455.	2.2	9
83	Simple multiangle, multicorrelator depolarized dynamic light scattering apparatus. <i>Review of Scientific Instruments</i> , 2006, 77, 043902.	0.6	9
84	Discovering Volatile Chemicals from Window Weatherstripping through Solid-Phase Microextraction/Gas Chromatography-Mass Spectrometry. <i>Journal of Chemical Education</i> , 2017, 94, 1784-1789.	1.1	9
85	Interactions between Colloidal Poly(tetrafluoroethylene) Latex and Sodium Poly(styrenesulfonate). <i>Langmuir</i> , 1998, 14, 264-270.	1.6	8
86	NMR investigations of the structure of water-soluble poly(ethylene oxide) complexes with polystyrene sulfonate copolymers. <i>Colloid and Polymer Science</i> , 2003, 281, 150-156.	1.0	8
87	Dynamic light scattering from a semiflexible polymer at very low concentrations. <i>Journal of Chemical Physics</i> , 1992, 97, 2777-2782.	1.2	7
88	Static light scattering instrument for rapid and time-resolved particle sizing in polymer and colloid solutions. <i>Review of Scientific Instruments</i> , 1996, 67, 3645-3648.	0.6	7
89	Separation and Characterization of Poly(tetrafluoroethylene) Latex Particles by Asymmetric Flow Field Flow Fractionation with Light-Scattering Detection. <i>Langmuir</i> , 2014, 30, 3373-3380.	1.6	7
90	Fluorescent Labeling Can Alter Polymer Solution Dynamics. <i>Macromolecules</i> , 2015, 48, 7245-7255.	2.2	7

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91	Polypeptide-Coated Silica Particles Dispersed in Lyotropic Liquid Crystals of the Same Polypeptide. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7275-7288.	1.2	7
92	Microbubbles and Oil Droplets Stabilized by a Class II Hydrophobin in Marinelike Environments. <i>Langmuir</i> , 2019, 35, 4380-4386.	1.6	7
93	Diffusion of Labeled Polyelectrolyte Probes in Unlabeled Polyelectrolyte Matrix Solutions. <i>Macromolecules</i> , 2005, 38, 10627-10630.	2.2	5
94	Poly(colloid)s: α -Polymerization of Poly(<i>l</i> -tyrosine)-silica Composite Particles through the Photoinduced Cross-Linking of Unmodified Proteins Method. <i>Langmuir</i> , 2016, 32, 8392-8402.	1.6	5
95	Phase Behavior in a Ternary Rod/Coil/Solvent System: Poly(β -Benzyl-L-glutamate)/Nylon-6/m-cresol. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1988, 157, 501-514.	0.3	4
96	Gelation of Rodlike Polymers. <i>Materials Research Society Symposia Proceedings</i> , 1988, 134, 207.	0.1	4
97	Synthesis of Paucidisperse Poly(β -benzyl-L-glutamate) Oligomers and Star Polymers with Rigid Arms. <i>Biomacromolecules</i> , 2001, 2, 1214-1219.	2.6	4
98	Elucidating the Kinetics of β -Amyloid Fibril Formation. <i>ACS Symposium Series</i> , 2005, , 106-118.	0.5	4
99	β -Amyloid Protein Aggregation. <i>Methods in Molecular Biology</i> , 2007, , 203-225.	0.4	4
100	Colorful Polyelectrolytes: An Atom Transfer Radical Polymerization Route to Fluorescent Polystyrene Sulfonate. <i>Journal of Fluorescence</i> , 2016, 26, 609-615.	1.3	4
101	Polypeptide-Assisted Organization of β -Conjugated Polymers into Responsive, Soft 3D Networks. <i>Chemistry of Materials</i> , 2017, 29, 5058-5062.	3.2	4
102	Molecular Dynamics Simulations of Nanostructures Formed by Hydrophobins and Oil in Seawater. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7886-7899.	1.2	4
103	Comment on the correct polarization factor for light scattering photometers employing annular detection. <i>Macromolecules</i> , 1984, 17, 1289-1291.	2.2	3
104	Some Structural Observations of Self-Assembled, Fibrillar Gels Composed of Two-Directional Bolaform Arborols. <i>ACS Symposium Series</i> , 2006, , 370-383.	0.5	3
105	Diffusion of Rodlike Polymers: Pulsed Gradient Spin Echo NMR of Poly(β -stearyl-L-glutamate) Solutions and the Importance of Helix Stability. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12194-12200.	1.2	3
106	Characterization of polymers by static light scattering. , 2021, , 499-532.		3
107	Effect of Length on the Diffusion of a Rodlike Polymer at Concentrations Spanning the Isotropic \rightarrow Lyotropic Transition. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4777-4782.	1.2	2
108	Sugar-Based Polyamides: Self-Organization in Strong Polar Organic Solvents. <i>Biomacromolecules</i> , 2015, 16, 3062-3072.	2.6	2

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109	Thermoresponsive Liquid Crystals: Thermally Switchable Liquid Crystals Based on Cellulose Nanocrystals with Patchy Polymer Grafts (Small 46/2018). Small, 2018, 14, 1870218.	5.2	2
110	Organophilic, Superparamagnetic, and Reversibly Thermoresponsive Silica-Polypeptide Core-Shell Particles. Langmuir, 2019, 35, 14248-14257.	1.6	2
111	Characterization of Submicron Bubbles Formed by the Hydrophobin Cerato-ulmin. Journal of Physical Chemistry B, 2019, 123, 3955-3961.	1.2	2
112	Characterization of polymers by dynamic light scattering. , 2021, , 441-498.		2
113	Light Scattering from Magnetic Latex Particles. Materials Research Society Symposia Proceedings, 1991, 248, 247.	0.1	1
114	Static and dynamic light scattering of a random coil polymer in rodlike polymer solution. Macromolecular Symposia, 1994, 79, 81-85.	0.4	1
115	Craft-Based IGERT Experiment in Graduate Macromolecular Studies. Polymer Reviews, 2008, 48, 653-673.	5.3	1
116	Reshaping sub-millimetre bubbles from spheres to tori. Soft Matter, 2022, 18, 4660-4666.	1.2	1
117	Diffusion of spherical probes in aqueous systems containing the semiflexible polymer hydroxypropylcellulose. , 1991, , .		0
118	Detection of Polypeptide Conformational Transitions in Solution via Sound Velocity. Macromolecules, 2020, 53, 5127-5139.	2.2	0