Jacek Gapinski

List of Publications by Year in descending order

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IACER CADINSKI

#	Article	IF	CITATIONS
1	Comparative Analysis of Viscosity of Complex Liquids and Cytoplasm of Mammalian Cells at the Nanoscale. Nano Letters, 2011, 11, 2157-2163.	9.1	212
2	Scaling the \$alpha \$ -relaxation time of supercooled fragile organic liquids. European Physical Journal B, 2004, 42, 309-319.	1.5	161
3	Scaling form of viscosity at all length-scales in poly(ethylene glycol) solutions studied by fluorescence correlation spectroscopy and capillary electrophoresis. Physical Chemistry Chemical Physics, 2009, 11, 9025.	2.8	160
4	Temperature and pressure study of Brillouin transverse modes in the organic glass-forming liquid orthoterphenyl. Physical Review E, 2003, 68, 011204.	2.1	121
5	Does fragility depend on pressure? A dynamic light scattering study of a fragile glass-former. Journal of Chemical Physics, 2001, 114, 8048-8055.	3.0	77
6	Many-Body Hydrodynamic Interactions in Charge-Stabilized Suspensions. Physical Review Letters, 2006, 96, 138303.	7.8	73
7	Single-molecule imaging of DNA gyrase activity in living <i>Escherichia coli</i> . Nucleic Acids Research, 2019, 47, 210-220.	14.5	72
8	Spectrum of fast dynamics in glass forming liquids: Does the "knee―exist?. Journal of Chemical Physics, 1999, 110, 2312-2315.	3.0	70
9	Comparison of three rheological models of shear flow behavior studied on blood samples from post-infarction patients. Medical and Biological Engineering and Computing, 2007, 45, 837-844.	2.8	67
10	Pressure and temperature dependence of structural relaxation in diglycidylether of bisphenol A. Journal of Chemical Physics, 2003, 118, 3177-3186.	3.0	61
11	Light-scattering study of a supercooled epoxy resin. Physical Review E, 1999, 60, 3086-3096.	2.1	56
12	Diffusion of spheres in crowded suspensions of rods. Journal of Chemical Physics, 2005, 122, 044905.	3.0	56
13	Diffusion and microstructural properties of solutions of charged nanosized proteins: Experiment versus theory. Journal of Chemical Physics, 2005, 123, 054708.	3.0	54
14	Light Gradients in Spherical Photosynthetic Vesicles. Biophysical Journal, 1998, 75, 124-133.	0.5	51
15	Size and Shape of Micelles Studied by Means of SANS, PCS, and FCS. Langmuir, 2010, 26, 9304-9314.	3.5	45
16	Peptide-functionalized ZCIS QDs as fluorescent nanoprobe for targeted HER2-positive breast cancer cells imaging. Acta Biomaterialia, 2016, 35, 293-304.	8.3	45
17	Structure and short-time dynamics in suspensions of charged silica spheres in the entire fluid regime. Journal of Chemical Physics, 2009, 130, 084503.	3.0	44
18	Pressure effects on the α and α′ relaxations in polymethylphenylsiloxane. Journal of Chemical Physics, 2006, 124, 104901.	3.0	42

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19	Theranostic liposomes as a bimodal carrier for magnetic resonance imaging contrast agent and photosensitizer. Journal of Inorganic Biochemistry, 2018, 180, 1-14.	3.5	40
20	Amplitude and Polarity of the Light Gradient Photovoltage from Chloroplasts. Journal of Theoretical Biology, 1994, 170, 129-143.	1.7	37
21	Effect of electrostatic interactions on the structure and dynamics of a model polyelectrolyte. I. Diffusion. Journal of Chemical Physics, 1998, 109, 7556-7566.	3.0	36
22	Effect of electrostatic interactions on the structure and dynamics of a model polyelectrolyte. II. Intermolecular correlations. Journal of Chemical Physics, 1999, 110, 1794-1800.	3.0	34
23	Film Formation and Redispersion of Waterborne Latex Coatings. Journal of Colloid and Interface Science, 2000, 224, 91-98.	9.4	34
24	Self-organizing silver and ultrasmall iron oxide nanoparticles prepared with ginger rhizome extract: Characterization, biomedical potential and microstructure analysis of hydrocolloids. Materials and Design, 2017, 133, 307-324.	7.0	34
25	Interparticle correlations due to electrostatic interactions: A small angle x-ray and dynamic light scattering study. I. Apoferritin. Journal of Chemical Physics, 2002, 117, 413-426.	3.0	33
26	Movement of Proteins in an Environment Crowded by Surfactant Micelles:Â Anomalous versus Normal Diffusion. Journal of Physical Chemistry B, 2006, 110, 7367-7373.	2.6	32
27	Structuring Effects and Hydration Phenomena in Poly(Ethylene Glycol)/Water Mixtures Investigated by Brillouin Scattering. Journal of Physical Chemistry B, 2006, 110, 20533-20539.	2.6	32
28	Rapamycin Loaded Solid Lipid Nanoparticles as a New Tool to Deliver mTOR Inhibitors: Formulation and in Vitro Characterization. Nanomaterials, 2016, 6, 87.	4.1	31
29	A comparison of relaxation processes in structurally related van der Waals glass formers: The role of internal degrees of freedom. Journal of Chemical Physics, 2005, 122, 074506.	3.0	29
30	Adsorption of bacteriophages on polypropylene labware affects the reproducibility of phage research. Scientific Reports, 2021, 11, 7387.	3.3	29
31	Collective diffusion in charge-stabilized suspensions: Concentration and salt effects. Journal of Chemical Physics, 2007, 126, 104905.	3.0	27
32	Solution Structure of Biopolymers: A New Method of Constructing a Bead Model. Biophysical Journal, 2000, 78, 70-78.	0.5	26
33	Correlation between nonexponential relaxation and non-Arrhenius behavior under conditions of high compression. Physical Review E, 2002, 66, 011501.	2.1	26
34	Dynamics of core-shell particles in concentrated suspensions. Physical Review E, 2004, 69, 042401.	2.1	26
35	Successful FCS Experiment in Nonstandard Conditions. Langmuir, 2014, 30, 8945-8955.	3.5	26
36	Rapamycin-loaded solid lipid nanoparticles: Morphology and impact of the drug loading on the phase transition between lipid polymorphs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 502, 54-65.	4.7	24

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37	Effect of electrostatic interactions on the dynamics of semiflexible monodisperse DNA fragments. Journal of Chemical Physics, 2000, 113, 6001-6010.	3.0	22
38	Relationship between T0, Tg and their pressure dependence for supercooled liquids. Journal of Non-Crystalline Solids, 2003, 330, 259-263.	3.1	21
39	Evidences of Nonideal Mixing in Poly(ethylene Glycol)/Organic Solvent Mixtures by Brillouin Scattering. Journal of Physical Chemistry B, 2006, 110, 485-493.	2.6	21
40	Excess compressibility in binary liquid mixtures. Journal of Chemical Physics, 2007, 126, 224508.	3.0	21
41	Photophysical properties of betaxanthins: Vulgaxanthin I in aqueous and alcoholic solutions. Journal of Luminescence, 2015, 167, 289-295.	3.1	21
42	Uptake and controlled release of a dye from thermo-sensitive polymer P(NIPAM-co-Vim). Reactive and Functional Polymers, 2017, 115, 102-108.	4.1	21
43	Fast Light-Driven Motion of Polydopamine Nanomembranes. Nano Letters, 2022, 22, 578-585.	9.1	21
44	Dynamics of supercooled van der Waals liquid under pressure. A dynamic light scattering study. Colloid and Polymer Science, 2004, 282, 874-881.	2.1	19
45	Silver and ultrasmall iron oxides nanoparticles in hydrocolloids: effect of magnetic field and temperature on self-organization. Scientific Reports, 2018, 8, 4041.	3.3	19
46	Structural Relaxation Processes in Polyethylene Glycol/CCl4Solutions by Brillouin Scattering. Journal of Physical Chemistry B, 2005, 109, 4181-4188.	2.6	18
47	Physical nature of complex structural relaxation in polysiloxane – PMpTS: α and α′ relaxations. Polymer, 2006, 47, 7231-7240.	3.8	18
48	Freezing lines of colloidal Yukawa spheres. I. A Rogers-Young integral equation study. Journal of Chemical Physics, 2012, 136, 024507.	3.0	18
49	Porphyrazine with bulky 2-(1-adamantyl)-5-phenylpyrrol-1-yl periphery tuning its spectral and electrochemical properties. Polyhedron, 2015, 98, 217-223.	2.2	18
50	Self-diffusion in solutions of a 20 base pair oligonucleotide: Effects of concentration and ionic strength. Journal of Chemical Physics, 2004, 121, 10794-10802.	3.0	17
51	Structural properties of the intrinsically disordered, multiple calcium ion-binding otolith matrix macromolecule-64 (OMM-64). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1358-1371.	2.3	17
52	Acetate-Induced Disassembly of Spherical Iron Oxide Nanoparticle Clusters into Monodispersed Core–Shell Structures upon Nanoemulsion Fusion. Langmuir, 2017, 33, 10351-10365.	3.5	16
53	Brillouin Scattering Study of Polyethylene Glycol/Water System below Crystallization Temperature. Journal of Physical Chemistry B, 2010, 114, 2644-2649.	2.6	15
54	Experimental evidence of high pressure decoupling between charge transport and structural dynamics in a protic ionic glass-former. Scientific Reports, 2017, 7, 7084.	3.3	15

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55	Dynamic light scattering from liquid crystal polymer brushes swollen in a nematic solvent. Liquid Crystals, 2001, 28, 1353-1360.	2.2	14
56	Size of Submicrometer Particles Measured by FCS: Correction of the Confocal Volume. Langmuir, 2015, 31, 6681-6687.	3.5	14
57	Synthesis, structure, EPR studies and up-conversion luminescence of ZnO:Er ³⁺ –Yb ³⁺ @Gd ₂ O ₃ nanostructures. RSC Advances, 2016, 6, 89305-89312.	3.6	13
58	Synthesis, characterization and in vitro cytotoxicity studies of poly-N-isopropyl acrylamide gel nanoparticles and films. Materials Science and Engineering C, 2021, 118, 111507.	7.3	13
59	Isotropic Brillouin spectra of liquids having an internal degree of freedom. Journal of Chemical Physics, 2007, 126, 014508.	3.0	12
60	Freezing lines of colloidal Yukawa spheres. II. Local structure and characteristic lengths. Journal of Chemical Physics, 2014, 141, 124505.	3.0	12
61	Cytotoxicity and imaging studies of β-NaGdF ₄ :Yb ³⁺ Er ³⁺ @PEG-Mo nanorods. RSC Advances, 2016, 6, 95633-95643.	3.6	12
62	Core–shell fluorinated methacrylate nanoparticles with Rhodamine-B for confocal microscopy and fluorescence correlation spectroscopy applications. Journal of Fluorine Chemistry, 2016, 183, 92-99.	1.7	12
63	Effect of acrylamide on aldolase structure. II. Characterization of aldolase unfolding intermediates. BBA - Proteins and Proteomics, 1999, 1431, 351-362.	2.1	11
64	Generic behavior of the hydrodynamic function of charged colloidal suspensions. Journal of Chemical Physics, 2010, 132, 054510.	3.0	11
65	Structure and Dimensions of Core–Shell Nanoparticles Comparable to the Confocal Volume Studied by Means of Fluorescence Correlation Spectroscopy. Langmuir, 2016, 32, 2482-2491.	3.5	11
66	Release and cytotoxicity studies of magnetite/Ag/antibiotic nanoparticles: An interdependent relationship. Colloids and Surfaces B: Biointerfaces, 2017, 152, 85-94.	5.0	11
67	Mechanical reinforcement of polymer colloidal crystals by supercritical fluids. Journal of Colloid and Interface Science, 2020, 579, 786-793.	9.4	11
68	Micellar Aggregation Behavior at Low Ionic Strength of Cyclic Acetal-Type Cationic Surfactants Containing the 1,3-Dioxolane Moiety. Journal of Physical Chemistry B, 1997, 101, 871-875.	2.6	10
69	Synthesis and encapsulation of fluorescein in zeolite Y. Microporous and Mesoporous Materials, 2016, 236, 79-84.	4.4	10
70	The effect of intramolecular relaxations on the damping of longitudinal and transverse phonons in polysiloxanes studied by Brillouin spectroscopy. Journal of Chemical Physics, 2008, 128, 014507.	3.0	9
71	Some Evidence of Scaling Behavior in the Relaxation Dynamics of Aqueous Polymer Solutions. Journal of Physical Chemistry B, 2010, 114, 1614-1620.	2.6	9
72	Fluorescein ether-ester dyes for labeling of fluorinated methacrylate nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111956.	3.9	9

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73	Up-conversion luminescence of RE3+ -doped polymer composites KGd(WO4)2&PMMA. Optical Materials, 2019, 88, 366-371.	3.6	9
74	In-situ thickness control of centimetre-scale 2D-Like polydopamine films with large scalability. Materials Today Chemistry, 2022, 24, 100935.	3.5	9
75	Unfolding and Refolding of Juvenile Hormone Binding Protein. Biophysical Journal, 2004, 86, 1138-1148.	0.5	8
76	Collective acoustic modes in liquids: A comparison between the generalized-hydrodynamics and memory-function approaches. Physical Review E, 2011, 84, 051202.	2.1	8
77	Stimuli-Responsive PNIPAM Based Copolymers: Modeling and Light Scattering Investigations. Acta Physica Polonica A, 2014, 125, 1236-1239.	0.5	8
78	EPR Oximetry Sensor—Developing a TAM Derivative for In Vivo Studies. Cell Biochemistry and Biophysics, 2018, 76, 19-28.	1.8	8
79	Structural similarity ofE. coli 5S rRNA in solution and within the ribosome. Biopolymers, 2004, 73, 316-325.	2.4	6
80	Unexpected effect of internal degrees of freedom on transverse phonons in supercooled liquids. Europhysics Letters, 2006, 73, 607-613.	2.0	6
81	Second Harmonic Generation Response in Thermally reconstructed Multiferroic βâ€2- Gd2(MoO4)3 Thin Films. Scientific Reports, 2017, 7, 11800.	3.3	6
82	Synthesis of fluorescein by a ship-in-a-bottle method in different zeolites. New Journal of Chemistry, 2017, 41, 9969-9976.	2.8	6
83	Evidence of fast diffusive process in a mixed polymeric glass. Journal of Chemical Physics, 1992, 96, 6311-6313.	3.0	5
84	Hidden Minima of the Gibbs Free Energy Revealed in a Phase Separation in Polymer/Surfactant/Water Mixture. Journal of Physical Chemistry B, 2005, 109, 8533-8537.	2.6	5
85	Simple way to analyze Brillouin spectra from turbid liquids. Optics Letters, 2015, 40, 1456.	3.3	5
86	Submicron sized fluorescent silica particles characterization. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 78-84.	1.4	5
87	Temperature dependent FCS studies using a long working distance objective: Viscosities of supercooled liquids and particle size. Journal of Chemical Physics, 2017, 146, 084506.	3.0	5
88	Nanomolar Nitric Oxide Concentrations in Living Cells Measured by Means of Fluorescence Correlation Spectroscopy. Molecules, 2022, 27, 1010.	3.8	5
89	Magneto-optics of Ferritin. Journal of Colloid and Interface Science, 2002, 253, 265-272.	9.4	4
90	Revealing Fast Proton Transport in Condensed Matter by Means of Density Scaling Concept. Journal of Physical Chemistry C, 2020, 124, 15749-15756.	3.1	4

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91	High-Frequency Dynamical Behavior of Poly(ethylene glycol)+H2O Mixtures by Brillouin Spectroscopy. Macromolecular Symposia, 2007, 251, 47-53.	0.7	3
92	High-frequency propagating density fluctuations in deeply supercooled water: Evidence of a single viscous relaxation. Physical Review E, 2013, 87, 022303.	2.1	3
93	Encapsulation of fluorescein into nanozeolites L and Y. Microporous and Mesoporous Materials, 2018, 260, 70-75.	4.4	3
94	On the nature of uncoupled chlorophylls in the extremophilic photosystem I-light harvesting I supercomplex. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148136.	1.0	3
95	Chromatin and transcriptome changes in human myoblasts show spatio-temporal correlations and demonstrate DPP4 inhibition in differentiated myotubes. Scientific Reports, 2020, 10, 14336.	3.3	3
96	Microenvironment characteristics of microemulsions stabilized by cyclic acetal-type cationic surfactants. Progress in Colloid and Polymer Science, 1997, 105, 311-316.	0.5	3
97	Fluorescent Submicron-Sized Poly(heptafluoro-n-butyl methacrylate) Particles with Long-Term Stability. Molecules, 2020, 25, 2013.	3.8	2
98	Computer-controlled digital correlator and its application in experimental physics. Microprocessors and Microsystems, 1992, 16, 171-176.	2.8	1
99	Nano-viscosity of supercooled liquid measured by fluorescence correlation spectroscopy: Pressure and temperature dependence and the density scaling. Journal of Chemical Physics, 2018, 148, 094201.	3.0	1
100	Nature of intramolecular dynamics in protic ionic glass-former: insight from ambient and high pressure Brillouin spectroscopy. Journal of Molecular Liquids, 2019, 282, 51-56.	4.9	1
101	Structure and Dynamics of Colloidal Suspensions Studied by Means of XPCS. Acta Physica Polonica A, 2008, 114, 339-350.	0.5	1
102	Stimuli-Responsive PNIPAM Based Copolymers: Modeling and Light Scattering Investigations. Acta Physica Polonica A, 2014, 125, 1245-1248.	0.5	1
103	Brillouin spectroscopy. , 2022, , 45-72.		1
104	Study of the Rytov dip for liquido-terphenyl. Philosophical Magazine, 2004, 84, 1463-1469.	1.6	0
105	Scaling of the Structural Relaxation in Supercooled Fragile Liquids and Simulated Liquid Silica. AIP Conference Proceedings, 2008, , .	0.4	0
106	Relaxation dynamics and evidence of scaling behaviours in aqueous polymer solutions. Journal of Molecular Liquids, 2011, 159, 105-111.	4.9	0
107	Penetration of Light in Photosynthetic Membranes of Spherical Symmetry. , 1995, , 2361-2364.		0