

Jedrzej Szymanski

List of Publications by Citations

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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.

32 papers	2,004 citations	20 h-index	38 g-index
38 ext. papers	2,344 ext. citations	5.2 avg, IF	4.63 L-index

#	Paper	IF	Citations
32	Elucidating the origin of anomalous diffusion in crowded fluids. <i>Physical Review Letters</i> , 2009 , 103, 038102	16.4	336
31	Amino acids for Diels-Alder reactions in living cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4166-70	16.4	271
30	Minimal tags for rapid dual-color live-cell labeling and super-resolution microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2245-9	16.4	210
29	Comparative analysis of viscosity of complex liquids and cytoplasm of mammalian cells at the nanoscale. <i>Nano Letters</i> , 2011 , 11, 2157-63	11.5	171
28	Scaling form of viscosity at all length-scales in poly(ethylene glycol) solutions studied by fluorescence correlation spectroscopy and capillary electrophoresis. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9025-32	3.6	147
27	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. <i>International Review of Cell and Molecular Biology</i> , 2018 , 340, 209-344	6	102
26	Interaction of Mitochondria with the Endoplasmic Reticulum and Plasma Membrane in Calcium Homeostasis, Lipid Trafficking and Mitochondrial Structure. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	99
25	Diffusion and viscosity in a crowded environment: from nano- to macroscale. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25593-7	3.4	87
24	Mitochondria-associated membranes in aging and senescence: structure, function, and dynamics. <i>Cell Death and Disease</i> , 2018 , 9, 332	9.8	79
23	Amino Acids for Diels-Alder Reactions in Living Cells. <i>Angewandte Chemie</i> , 2012 , 124, 4242-4246	3.6	73
22	Motion of nanoprobe in complex liquids within the framework of the length-scale dependent viscosity model. <i>Advances in Colloid and Interface Science</i> , 2015 , 223, 55-63	14.3	51
21	The effect of macromolecular crowding on mobility of biomolecules, association kinetics, and gene expression in living cells. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	46
20	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2014 , 126, 2278-2282	3.6	45
19	Size and shape of micelles studied by means of SANS, PCS, and FCS. <i>Langmuir</i> , 2010 , 26, 9304-14	4	38
18	Mitochondria as a possible target for nicotine action. <i>Journal of Bioenergetics and Biomembranes</i> , 2019 , 51, 259-276	3.7	30
17	Movement of proteins in an environment crowded by surfactant micelles: anomalous versus normal diffusion. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7367-73	3.4	28
16	Apparent Anomalous Diffusion in the Cytoplasm of Human Cells: The Effect of Probe's Polydispersity. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9831-9837	3.4	24

15	Assessment of mitochondrial function following short- and long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk tobacco product and reference cigarettes. <i>Food and Chemical Toxicology</i> , 2018 , 115, 1-12	4.7	23
14	Insight into the fission mechanism by quantitative characterization of Drp1 protein distribution in the living cell. <i>Scientific Reports</i> , 2018 , 8, 8122	4.9	21
13	Aggregation of aqueous lysozyme solutions followed by dynamic light scattering and ¹ H NMR spectroscopy. <i>Journal of Molecular Liquids</i> , 2005 , 121, 21-26	6	20
12	Determination of oligomerization state of Drp1 protein in living cells at nanomolar concentrations. <i>Scientific Reports</i> , 2019 , 9, 5906	4.9	17
11	Dynamic subcellular partitioning of the nucleolar transcription factor TIF-IA under ribotoxic stress. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 1191-8	4.9	16
10	Distinction of sporadic and familial forms of ALS based on mitochondrial characteristics. <i>FASEB Journal</i> , 2019 , 33, 4388-4403	0.9	14
9	Net charge and electrophoretic mobility of lysozyme charge ladders in solutions of nonionic surfactant. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5503-10	3.4	13
8	Micro- and macro-shear viscosity in dispersed lamellar phases. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 148, 134-140	2.7	11
7	Nanoscale Viscosity of Cytoplasm Is Conserved in Human Cell Lines. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6914-6920	6.4	8
6	Mitochondrial Network and Biogenesis in Response to Short and Long-Term Exposure of Human BEAS-2B Cells to Aerosol Extracts from the Tobacco Heating System 2.2. <i>Cellular Physiology and Biochemistry</i> , 2020 , 54, 230-251	3.9	7
5	Microcalorimetric, volumetric and dynamic light scattering studies on nucleating ovalbumin solutions. <i>Journal of Molecular Liquids</i> , 2005 , 121, 58-61	6	1
4	Effects of plant alkaloids on mitochondrial bioenergetic parameters. <i>Food and Chemical Toxicology</i> , 2021 , 154, 112316	4.7	1
3	Partial molar volumes of mRNA 5'cap analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003 , 22, 1553-6	1.4	0
2	Method to analyze effects of low-level laser therapy on biological cells with a digital holographic microscope.. <i>Applied Optics</i> , 2022 , 61, B297-B306	1.7	0
1	Cell extract gels as an example of active matter. <i>Rheologica Acta</i> , 2020 , 59, 575-582	2.3	0