Grzegorz Piszczek

List of Publications by Year in descending order

65 papers	2,912 citations	218592 26 h-index	189801 50 g-index
70 all docs	70 docs citations	70 times ranked	4588 citing authors

#	Article	IF	Citations
1	High-Precision Isothermal Titration Calorimetry with Automated Peak-Shape Analysis. Analytical Chemistry, 2012, 84, 5066-5073.	3.2	440
2	SEDPHAT â€“ A platform for global ITC analysis and global multi-method analysis of molecular interactions. Methods, 2015, 76, 137-148.	1.9	264
3	Fixation-resistant photoactivatable fluorescent proteins for CLEM. Nature Methods, 2015, 12, 215-218.	9.0	173
4	Senataxin Mutation Reveals How R-Loops Promote Transcription by Blocking DNA Methylation at Gene Promoters. Molecular Cell, 2018, 69, 426-437.e7.	4.5	147
5	Tubulin tyrosine ligase structure reveals adaptation of an ancient fold to bind and modify tubulin. Nature Structural and Molecular Biology, 2011, 18, 1250-1258.	3.6	114
6	Recorded scan times can limit the accuracy of sedimentation coefficients in analytical ultracentrifugation. Analytical Biochemistry, 2013, 437, 104-108.	1.1	102
7	Katanin spiral and ring structures shed light on power stroke for microtubule severing. Nature Structural and Molecular Biology, 2017, 24, 717-725.	3.6	97
8	Multiphoton Ligand-Enhanced Excitation of Lanthanides. Journal of Fluorescence, 2001, 11, 101-107.	1.3	71
9	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	1.1	71
10	On the Possibility of Long-Wavelength Long-Lifetime High-Quantum-Yield Luminophores. Analytical Biochemistry, 2001, 288, 62-75.	1.1	69
11	Biochemical, Proteomic, Structural, and Thermodynamic Characterizations of Integrin-linked Kinase (ILK). Journal of Biological Chemistry, 2011, 286, 21886-21895.	1.6	65
12	Structure of Transmembrane Domain of Lysosome-associated Membrane Protein Type 2a (LAMP-2A) Reveals Key Features for Substrate Specificity in Chaperone-mediated Autophagy. Journal of Biological Chemistry, 2014, 289, 35111-35123.	1.6	63
13	Capping protein regulatory cycle driven by CARMIL and V-1 may promote actin network assembly at protruding edges. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1970-9.	3.3	62
14	Improving the thermal, radial, and temporal accuracy of the analytical ultracentrifuge through external references. Analytical Biochemistry, 2013, 440, 81-95.	1.1	60
15	Multi-Photon Sensitized Excitation of Near Infrared Emitting Lanthanides. Journal of Fluorescence, 2002, 12, 15-17.	1.3	52
16	Enhanced Emission Induced by FRET from a Long-Lifetime, Low Quantum Yield Donor to a Long-Wavelength, High Quantum Yield Acceptor. Journal of Fluorescence, 2002, 12, 97-103.	1.3	45
17	Multiphoton Excitation of Lanthanides. ChemPhysChem, 2001, 2, 247-252.	1.0	43
18	Novel Protective Mechanism against Irreversible Hyperoxidation of Peroxiredoxin. Journal of Biological Chemistry, 2009, 284, 13455-13465.	1.6	43

#	Article	IF	Citations
19	Standard protocol for mass photometry experiments. European Biophysics Journal, 2021, 50, 403-409.	1.2	43
20	Functional Role of Methylation of G518 of the 16S rRNA 530 Loop by GidB in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2013, 57, 6311-6318.	1.4	42
21	Measuring the affinity of protein-protein interactions on a single-molecule level by mass photometry. Analytical Biochemistry, 2020, 592, 113575.	1.1	41
22	Lateral Diffusion Coefficients in Membranes Measured by Resonance Energy Transfer and a New Algorithm for Diffusion in Two Dimensions. Biophysical Journal, 2002, 82, 1358-1372.	0.2	40
23	The POTRA domains of Toc75 exhibit chaperone-like function to facilitate import into chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4868-E4876.	3.3	40
24	Plasticity in structure and assembly of SARS-CoV-2 nucleocapsid protein. , 2022, 1, .		36
25	Energetic and structural features of SARS-CoV-2 N-protein co-assemblies with nucleic acids. IScience, 2021, 24, 102523.	1.9	34
26	Luminescent metal-ligand complexes as probes of macromolecular interactions and biopolymer dynamics. Archives of Biochemistry and Biophysics, 2006, 453, 54-62.	1.4	33
27	Crystal Structures of Tubulin Acetyltransferase Reveal a Conserved Catalytic Core and the Plasticity of the Essential N Terminus. Journal of Biological Chemistry, 2012, 287, 41569-41575.	1.6	32
28	The Molecular Chaperone, ClpA, Has a Single High Affinity Peptide Binding Site per Hexamer. Journal of Biological Chemistry, 2005, 280, 12221-12230.	1.6	28
29	Donor fluorescence decay analysis for energy transfer in double-helical DNA with various acceptor concentrations. Biopolymers, 2000, 57, 306-315.	1.2	27
30	Molecular Basis for Barbed End Uncapping by CARMIL Homology Domain 3 of Mouse CARMIL-1. Journal of Biological Chemistry, 2010, 285, 29014-29026.	1.6	27
31	Rapid characterization of adeno-associated virus (AAV) gene therapy vectors by mass photometry. Gene Therapy, 2022, 29, 691-697.	2.3	27
32	Engineered ACE2-Fc counters murine lethal SARS-CoV-2 infection through direct neutralization and Fc-effector activities. Science Advances, 2022, 8, .	4.7	27
33	Conformational stability and domain coupling in D-glucose/D-galactose-binding protein from Escherichia coli. Biochemical Journal, 2004, 381, 97-103.	1.7	26
34	V-1 regulates capping protein activity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6610-E6619.	3.3	26
35	Effect of ATP and regulatory light-chain phosphorylation on the polymerization of mammalian nonmuscle myosin II. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6516-E6525.	3.3	26
36	Microsecond dynamics of biological macromolecules. Methods in Enzymology, 2000, 323, 473-509.	0.4	25

#	Article	IF	Citations
37	An Engineered Palette of Metal Ion Quenchable Fluorescent Proteins. PLoS ONE, 2014, 9, e95808.	1.1	23
38	The Crystal Structure and Mechanism of an Unusual Oxidoreductase, GilR, Involved in Gilvocarcin V Biosynthesis. Journal of Biological Chemistry, 2011, 286, 23533-23543.	1.6	21
39	Structural Insights into the Catalytic Mechanism of Escherichia coli Selenophosphate Synthetase. Journal of Bacteriology, 2012, 194, 499-508.	1.0	21
40	Dissociation of glucocerebrosidase dimer in solution by its co-factor, saposin C. Biochemical and Biophysical Research Communications, 2015, 457, 561-566.	1.0	19
41	Chlorpromazine binding to the PAS domains uncovers the effect of ligand modulation on EAG channel activity. Journal of Biological Chemistry, 2020, 295, 4114-4123.	1.6	18
42	DNA dynamics: a fluorescence resonance energy transfer study using a long-lifetime metal-ligand complex. Archives of Pharmacal Research, 2002, 25, 143-150.	2.7	16
43	Deuteration of Escherichia coli Enzyme INtr alters its stability. Archives of Biochemistry and Biophysics, 2011, 507, 332-342.	1.4	15
44	Characterization and Solution Structure of Mouse Myristoylated Methionine Sulfoxide Reductase A. Journal of Biological Chemistry, 2012, 287, 25589-25595.	1.6	15
45	Measurement of the temperature of the resting rotor in analytical ultracentrifugation. Analytical Biochemistry, 2014, 458, 37-39.	1.1	14
46	Tubulin Tyrosine Ligase and Stathmin Compete for Tubulin Binding In Vitro. Journal of Molecular Biology, 2013, 425, 2412-2414.	2.0	13
47	Reproducibility and accuracy of microscale thermophoresis in the NanoTemper Monolith: a multi laboratory benchmark study. European Biophysics Journal, 2021, 50, 411-427.	1.2	13
48	The Maturational Refolding of the Î²-Hairpin Motif of Equine Infectious Anemia Virus Capsid Protein Extends Its Helix Î±1 at Capsid Assembly Locus. Journal of Biological Chemistry, 2013, 288, 1511-1520.	1.6	12
49	Reformulation of an extant ATPase active site to mimic ancestral GTPase activity reveals a nucleotide base requirement for function. ELife, 2021, 10, .	2.8	12
50	A multi-laboratory benchmark study of isothermal titration calorimetry (ITC) using Ca2+ and Mg2+ binding to EDTA. European Biophysics Journal, 2021, 50, 429-451.	1.2	12
51	Investigating cyclic nucleotide and cyclic dinucleotide binding to HCN channels by surface plasmon resonance. PLoS ONE, 2017, 12, e0185359.	1.1	12
52	Virus-like Particle Display of Vibrio cholerae O-Specific Polysaccharide as a Potential Vaccine against Cholera. ACS Infectious Diseases, 2022, 8, 574-583.	1.8	12
53	Accounting for Photophysical Processes and Specific Signal Intensity Changes in Fluorescence-Detected Sedimentation Velocity. Analytical Chemistry, 2014, 86, 9286-9292.	3.2	11
54	Effects of diffusion on energy transfer in solution using a microsecond decay time rhenium metalâ€“ligand complex as the donor. Chemical Physics Letters, 2000, 319, 661-668.	1.2	10

#	Article	IF	Citations
55	Four-Photon Excitation of 2,2â€˜-Dimethyl-p-terphenyl. Journal of Physical Chemistry A, 2002, 106, 754-759.	1.1	10
56	Extensibility of the Extended Tail Domain of Processive and Nonprocessive Myosin V Molecules. Biophysical Journal, 2009, 97, 3123-3131.	0.2	9
57	Isothermal Titration Calorimetry Measurements of Riboswitch-Ligand Interactions. Methods in Molecular Biology, 2019, 1964, 75-87.	0.4	9
58	End-to-End Diffusion on the Microsecond Timescale Measured with Resonance Energy Transfer from a Long-lifetime Rhenium Metalâ€“Ligand Complex. Photochemistry and Photobiology, 2000, 71, 157.	1.3	8
59	High-molecular-weight protein hydrodynamics studied with a long-lifetime metal-ligand complex. BBA - Proteins and Proteomics, 2002, 1597, 221-228.	2.1	8
60	Rapid Determination of Antibody-Antigen Affinity by Mass Photometry. Journal of Visualized Experiments, 2021, , .	0.2	7
61	Nonenzymatic Conversion of ADP-Ribosylated Arginines to Ornithine Alters the Biological Activities of Human Neutrophil Peptide-1. Journal of Immunology, 2014, 193, 6144-6151.	0.4	6
62	Calcium-binding calmyrin forms stable covalent dimers in vitro, but in vivo is found in monomeric form. Acta Biochimica Polonica, 2005, 52, 469-76.	0.3	4
63	Biochemical and biological properties of cortexillin III, a component ofDictyosteliumDGAP1â€“cortexillin complexes. Molecular Biology of the Cell, 2014, 25, 2026-2038.	0.9	3
64	On the conformational stability and dimerization of phosphotransferase enzyme I from Escherichia coli. Thermochimica Acta, 2004, 420, 37-43.	1.2	1
65	End-to-End Diffusion on the Microsecond Timescale Measured with Resonance Energy Transfer from a Long-lifetime Rhenium Metal-Ligand Complex. Photochemistry and Photobiology, 2000, 71, 157-161.	1.3	1