

Petr Herman

List of Publications by Year in Descending Order

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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.

89
papers

2,110
citations

25
h-index

42
g-index

96
ext. papers

2,339
ext. citations

3.8
avg. IF

4.37
L-index

#	Paper	IF	Citations
89	TRPM7 N-terminal region forms complexes with calcium binding proteins CaM and S100A1.. <i>Heliyon</i> , 2021 , 7, e08490	3.6	1
88	Intrinsically disordered protein domain of human ameloblastin in synthetic fusion with calmodulin increases calmodulin stability and modulates its function. <i>International Journal of Biological Macromolecules</i> , 2021 , 168, 1-12	7.9	0
87	NSC348884 cytotoxicity is not mediated by inhibition of nucleophosmin oligomerization. <i>Scientific Reports</i> , 2021 , 11, 1084	4.9	1
86	14-3-3 proteins inactivate DAPK2 by promoting its dimerization and protecting key regulatory phosphosites. <i>Communications Biology</i> , 2021 , 4, 986	6.7	1
85	Mapping of CaM, S100A1 and PIP2-Binding Epitopes in the Intracellular N- and C-Termini of TRPM4. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
84	Interaction of an IBB Peptide with 14-3-3. <i>ACS Omega</i> , 2020 , 5, 5380-5388	3.9	1
83	Effect of Mg ²⁺ co-doping on the photo- and thermally stimulated luminescence of the (Lu,Gd) ₃ (Ga,Al) ₅ O ₁₂ :Ce epitaxial films. <i>Journal of Luminescence</i> , 2019 , 215, 116608	3.8	10
82	TRPM6 N-Terminal CaM- and S100A1-Binding Domains. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
81	Lifetime-based photoconversion of EGFP as a tool for FLIM. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 266-277	4	6
80	14-3-3 protein directly interacts with the kinase domain of calcium/calmodulin-dependent protein kinase kinase (CaMKK2). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 1612-1625	4	18
79	CaMKK2 kinase domain interacts with the autoinhibitory region through the N-terminal lobe including the RP insert. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2304-2313	4	2
78	Monitoring of nucleophosmin oligomerization in live cells. <i>Methods and Applications in Fluorescence</i> , 2018 , 6, 035016	3.1	9
77	Shared CaM- and S100A1-binding epitopes in the distal TRPM4 N terminus. <i>FEBS Journal</i> , 2018 , 285, 599-613	5.7	9
76	14-3-3 protein masks the nuclear localization sequence of caspase-2. <i>FEBS Journal</i> , 2018 , 285, 4196-4213	5.7	13
75	Molecular basis of the 14-3-3 protein-dependent activation of yeast neutral trehalase Nth1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9811-E9820	11.5	36
74	Cysteine residues mediate high-affinity binding of thioredoxin to ASK1. <i>FEBS Journal</i> , 2016 , 283, 3821-3838	5.7	21
73	Structural Insight into the 14-3-3 Protein-dependent Inhibition of Protein Kinase ASK1 (Apoptosis Signal-regulating kinase 1). <i>Journal of Biological Chemistry</i> , 2016 , 291, 20753-65	5.4	36

72	Structural Characterization of Phosducin and Its Complex with the 14-3-3 Protein. <i>Journal of Biological Chemistry</i> , 2015 , 290, 16246-60	5.4	18
71	Sphingolipid levels crucially modulate lateral microdomain organization of plasma membrane in living yeast. <i>FEBS Letters</i> , 2014 , 588, 443-9	3.8	28
70	Biophysical and structural characterization of the thioredoxin-binding domain of protein kinase ASK1 and its interaction with reduced thioredoxin. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24463-74	5.4	29
69	Detailed kinetic analysis of the interaction between the FOXO4-DNA-binding domain and DNA. <i>Biophysical Chemistry</i> , 2013 , 184, 68-78	3.5	7
68	The advantage of global fitting of data involving complex linked reactions. <i>Methods in Molecular Biology</i> , 2012 , 796, 399-421	1.4	11
67	Structural modulation of phosducin by phosphorylation and 14-3-3 protein binding. <i>Biophysical Journal</i> , 2012 , 103, 1960-9	2.9	12
66	Maximum entropy analysis of analytically simulated complex fluorescence decays. <i>Journal of Fluorescence</i> , 2011 , 21, 873-81	2.4	19
65	Structural and functional energetic linkages in allosteric regulation of muscle pyruvate kinase. <i>Methods in Enzymology</i> , 2011 , 488, 185-217	1.7	6
64	Structural basis for the 14-3-3 protein-dependent inhibition of the regulator of G protein signaling 3 (RGS3) function. <i>Journal of Biological Chemistry</i> , 2011 , 286, 43527-36	5.4	24
63	In vivo kinetics of U4/U6/U5 tri-snRNP formation in Cajal bodies. <i>Molecular Biology of the Cell</i> , 2011 , 22, 513-23	3.5	59
62	The C-terminal segment of yeast BMH proteins exhibits different structure compared to other 14-3-3 protein isoforms. <i>Biochemistry</i> , 2010 , 49, 3853-61	3.2	23
61	14-3-3 protein interacts with and affects the structure of RGS domain of regulator of G protein signaling 3 (RGS3). <i>Journal of Structural Biology</i> , 2010 , 170, 451-61	3.4	30
60	Glycine-rich loop of mitochondrial processing peptidase alpha-subunit is responsible for substrate recognition by a mechanism analogous to mitochondrial receptor Tom20. <i>Journal of Molecular Biology</i> , 2010 , 396, 1197-210	6.5	21
59	Long-term adaptation of <i>Bacillus subtilis</i> 168 to extreme pH affects chemical and physical properties of the cellular membrane. <i>Journal of Membrane Biology</i> , 2010 , 233, 73-83	2.3	13
58	14-3-3 protein masks the DNA binding interface of forkhead transcription factor FOXO4. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19349-60	5.4	47
57	Creatine kinase structural changes induced by substrates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 270-4	4	4
56	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 2. Fluorescence study. <i>Biochemistry</i> , 2009 , 48, 9456-65	3.2	15
55	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 3. Mechanism. <i>Biochemistry</i> , 2009 , 48, 9466-70	3.2	10

54	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 1. Calorimetric study. <i>Biochemistry</i> , 2009 , 48, 9448-55	3.2	16
53	The 14-3-3 protein affects the conformation of the regulatory domain of human tyrosine hydroxylase. <i>Biochemistry</i> , 2008 , 47, 1768-77	3.2	42
52	Time-resolved fluorescence spectroscopy and molecular dynamics simulations point out the effects of pressure on the stability and dynamics of the porcine odorant-binding protein. <i>Biopolymers</i> , 2008 , 89, 284-91	2.2	6
51	Frequency domain fluorometry with pulsed light-emitting diodes. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1130, 56-61	6.5	6
50	Temperature modulates binding specificity and affinity of the d-trehalose/d-maltose-binding protein from the hyperthermophilic archaeon <i>Thermococcus litoralis</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007 , 1774, 540-4	4	9
49	Both the N-terminal loop and wing W2 of the forkhead domain of transcription factor Foxo4 are important for DNA binding. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8265-75	5.4	58
48	D-trehalose/D-maltose-binding protein from the hyperthermophilic archaeon <i>Thermococcus litoralis</i> : the binding of trehalose and maltose results in different protein conformational states. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 63, 754-67	4.2	19
47	Pressure effect on the stability and the conformational dynamics of the D-Galactose/D-Glucose-binding protein from <i>Escherichia coli</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 62, 193-201	4.2	5
46	14-3-3 Protein interacts with nuclear localization sequence of forkhead transcription factor FoxO4. <i>Biochemistry</i> , 2005 , 44, 11608-17	3.2	86
45	Electroporative adjustment of pH in living yeast cells: ratiometric fluorescence pH imaging. <i>Journal of Fluorescence</i> , 2005 , 15, 763-8	2.4	11
44	The role of calcium in the conformational dynamics and thermal stability of the D-galactose/D-glucose-binding protein from <i>Escherichia coli</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61, 184-95	4.2	22
43	Application of microscopic Forster resonance energy transfer to cytological diagnosis of the thyroid tumors. <i>Journal of Biomedical Optics</i> , 2005 , 10, 034008	3.5	5
42	14-3-3zeta C-terminal stretch changes its conformation upon ligand binding and phosphorylation at Thr232. <i>Journal of Biological Chemistry</i> , 2004 , 279, 4531-40	5.4	62
41	14-3-3 protein C-terminal stretch occupies ligand binding groove and is displaced by phosphopeptide binding. <i>Journal of Biological Chemistry</i> , 2004 , 279, 49113-9	5.4	41
40	A recombinant glutamine-binding protein from <i>Escherichia coli</i> : effect of ligand-binding on protein conformational dynamics. <i>Biotechnology Progress</i> , 2004 , 20, 1847-54	2.8	6
39	Pseudo real-time method for monitoring of the limiting anisotropy in membranes. <i>Journal of Fluorescence</i> , 2004 , 14, 79-85	2.4	5
38	Manipulation of intracellular pH by electroporation: an alternative method for fast calibration of pH in living cells. <i>Analytical Biochemistry</i> , 2004 , 329, 348-50	3.1	5
37	HIV Rev self-assembly is linked to a molten-globule to compact structural transition. <i>Biophysical Chemistry</i> , 2004 , 108, 101-19	3.5	18

36	Fluorescence lifetime-resolved pH imaging of living cells. <i>Cytometry</i> , 2003 , 52, 77-89		128
35	Spatial distribution analysis of AT- and GC-rich regions in nuclei using corrected fluorescence resonance energy transfer. <i>Journal of Histochemistry and Cytochemistry</i> , 2003 , 51, 951-8	3-4	12
34	Lifetime- Based Imaging 2003 ,		2
33	Fluorescent zinc indicators for neurobiology. <i>Journal of Neuroscience Methods</i> , 2002 , 118, 63-75	3	105
32	Real-time background suppression during frequency domain lifetime measurements. <i>Analytical Biochemistry</i> , 2002 , 309, 19-26	3-1	4
31	Compact hyperspectral imager for low-light applications 2001 ,		1
30	Frequency-domain fluorescence microscopy with the LED as a light source. <i>Journal of Microscopy</i> , 2001 , 203, 176-81	1-9	82
29	Texture analysis of fluorescence lifetime images of nuclear DNA with effect of fluorescence resonance energy transfer. <i>Cytometry</i> , 2001 , 43, 94-100		35
28	Fluorescence lifetime characterization of novel low-pH probes. <i>Analytical Biochemistry</i> , 2001 , 294, 118-25.	1	115
27	Fluorescence properties of albumin blue 633 and 670 in plasma and whole blood. <i>Journal of Biomedical Optics</i> , 2001 , 6, 359-65	3-5	5
26	Synthesis, characterisation, and fluorescence spectroscopic mobility studies of fluorene labeled inorganic-organic hybrid polymers. <i>Journal of Materials Chemistry</i> , 2001 , 11, 2445-2452		9
25	Texture analysis of fluorescence lifetime images of AT- and GC-rich regions in nuclei. <i>Journal of Histochemistry and Cytochemistry</i> , 2001 , 49, 1443-51	3-4	52
24	High Performance Hyperspectral Imager for Microimaging. <i>Microscopy and Microanalysis</i> , 2001 , 7, 14-15	0-5	
23	The thermophilic esterase from <i>Archaeoglobus fulgidus</i> : structure and conformational dynamics at high temperature. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 38, 351-60	4-2	18
22	The esterase from the thermophilic eubacterium <i>Bacillus acidocaldarius</i> : structural-functional relationship and comparison with the esterase from the hyperthermophilic archaeon <i>Archaeoglobus fulgidus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 40, 473-81	4-2	22
21	Fluorescence lifetime imaging of nuclear DNA: effect of fluorescence resonance energy transfer. <i>Cytometry</i> , 2000 , 41, 178-85		42
20	Pyruvate kinase from the thermophilic eubacterium <i>Bacillus acidocaldarius</i> as probe to monitor the sodium concentrations in the blood. <i>Biophysical Chemistry</i> , 2000 , 84, 167-76	3-5	10
19	Cloning, overexpression, and properties of a new thermophilic and thermostable esterase with sequence similarity to hormone-sensitive lipase subfamily from the archaeon <i>Archaeoglobus fulgidus</i> . <i>Archives of Biochemistry and Biophysics</i> , 2000 , 373, 182-92	4-1	125

18	Fluorescent measurements in whole blood and plasma using red-emitting dyes 2000 ,		2
17	Synthesis and spectral characterization of a long-lifetime osmium (II) metal-ligand complex: a conjugatable red dye for applications in biophysics. <i>Biophysical Chemistry</i> , 1999 , 80, 143-51	3.5	21
16	Sensing of carbon dioxide by a decrease in photoinduced electron transfer quenching. <i>Analytical Biochemistry</i> , 1999 , 272, 87-93	3.1	24
15	The fluorescence emission of the apo-glucose oxidase from <i>Aspergillus niger</i> as probe to estimate glucose concentrations. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 263, 550-3	3.4	67
14	The origin of the diphenylhexatriene short lifetime component in membranes and solvents. <i>Chemical Physics Letters</i> , 1998 , 293, 429-435	2.5	14
13	Fluorescent probing of membrane potential in walled cells: diS-C3(3) assay in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1998 , 14, 1189-1197	3.4	65
12	Molecular distance measurements reveal an (alpha beta) ₂ dimeric structure of Na ⁺ /K ⁺ -ATPase. High affinity ATP binding site and K ⁺ -activated phosphatase reside on different alpha-subunits. <i>Journal of Biological Chemistry</i> , 1998 , 273, 28813-21	5.4	39
11	Fluorescent probing of membrane potential in walled cells: diS-C3(3) assay in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1998 , 14, 1189-97	3.4	32
10	Diffusion membrane potential in liposomes: setting by ion gradients, absolute calibration and monitoring of fast changes by spectral shifts of diS-C3(3) fluorescence maximum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1325, 155-64	3.8	12
9	Fluoresceinyl-ethylenediamine-ouabain detects an acidic environment in the cardiac glycoside binding site of Na ⁺ /K ⁺ -ATPase. <i>FEBS Journal</i> , 1997 , 249, 301-8		9
8	Monitoring of membrane potential changes in <i>Saccharomyces cerevisiae</i> by diS-C3(3) fluorescence. <i>Folia Microbiologica</i> , 1997 , 42, 221-4	2.8	22
7	Kinetic Behavior of Potential-Sensitive Fluorescent Redistribution Probes: Modelling of the Time Course of Cell Staining 1996 , 145-149		
6	Study of membrane potential changes of yeast cells caused by killer toxin K1. <i>Folia Microbiologica</i> , 1994 , 39, 516-7	2.8	7
5	Monitoring of membrane potential by means of fluorescent dyes and time-resolved fluorescence spectroscopy. <i>Folia Microbiologica</i> , 1994 , 39, 521-4	2.8	7
4	Time-resolved polarized fluorescence studies of the temperature adaptation in <i>Bacillus subtilis</i> using DPH and TMA-DPH fluorescent probes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994 , 1190, 1-8	3.8	30
3	LOW-TEMPERATURE LUMINESCENCE SPECTRA AND FLUORESCENCE LIFETIMES OF POLYCYTIDYLIC ACID IN POLYALCOHOLIC GLASSES. <i>Photochemistry and Photobiology</i> , 1993 , 57, 792-793 ^{3.6}		1
2	Integrated software packages in the physical laboratory. <i>Computer Physics Communications</i> , 1990 , 61, 219-224	4.2	1
1	NSC348884 cytotoxicity is not mediated by inhibition of nucleophosmin oligomerization		1

