

# Petr Herman

## List of Publications by Citations

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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	Fluorescence lifetime-resolved pH imaging of living cells. <i>Cytometry</i> , <b>2003</b> , 52, 77-89		128
88	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> , <b>2000</b> , 373, 182-92	4.1	125
87	Fluorescence lifetime characterization of novel low-pH probes. <i>Analytical Biochemistry</i> , <b>2001</b> , 294, 118-25	3.1	115
86	Fluorescent zinc indicators for neurobiology. <i>Journal of Neuroscience Methods</i> , <b>2002</b> , 118, 63-75	3	105
85	14-3-3 Protein interacts with nuclear localization sequence of forkhead transcription factor FoxO4. <i>Biochemistry</i> , <b>2005</b> , 44, 11608-17	3.2	86
84	Frequency-domain fluorescence microscopy with the LED as a light source. <i>Journal of Microscopy</i> , <b>2001</b> , 203, 176-81	1.9	82
83	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> , <b>1999</b> , 263, 550-3	3.4	67
82	Fluorescent probing of membrane potential in walled cells: diS-C3(3) assay in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>1998</b> , 14, 1189-1197	3.4	65
81	14-3-3zeta C-terminal stretch changes its conformation upon ligand binding and phosphorylation at Thr232. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 4531-40	5.4	62
80	In vivo kinetics of U4/U6/U5 tri-snRNP formation in Cajal bodies. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 513-23	3.5	59
79	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> , <b>2007</b> , 282, 8265-75	5.4	58
78	Texture analysis of fluorescence lifetime images of AT- and GC-rich regions in nuclei. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2001</b> , 49, 1443-51	3.4	52
77	14-3-3 protein masks the DNA binding interface of forkhead transcription factor FOXO4. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 19349-60	5.4	47
76	The 14-3-3 protein affects the conformation of the regulatory domain of human tyrosine hydroxylase. <i>Biochemistry</i> , <b>2008</b> , 47, 1768-77	3.2	42
75	Fluorescence lifetime imaging of nuclear DNA: effect of fluorescence resonance energy transfer. <i>Cytometry</i> , <b>2000</b> , 41, 178-85		42
74	14-3-3 protein C-terminal stretch occupies ligand binding groove and is displaced by phosphopeptide binding. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 49113-9	5.4	41
73	Molecular distance measurements reveal an (alpha beta) <sub>2</sub> dimeric structure of Na <sup>+</sup> /K <sup>+</sup> -ATPase. High affinity ATP binding site and K <sup>+</sup> -activated phosphatase reside on different alpha-subunits. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 28813-21	5.4	39

72	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> , <b>2017</b> , 114, E9811-E9820	11.5	36
71	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> , <b>2016</b> , 291, 20753-65	5.4	36
70	Texture analysis of fluorescence lifetime images of nuclear DNA with effect of fluorescence resonance energy transfer. <i>Cytometry</i> , <b>2001</b> , 43, 94-100		35
69	Fluorescent probing of membrane potential in walled cells: diS-C3(3) assay in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>1998</b> , 14, 1189-97	3.4	32
68	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> , <b>2010</b> , 170, 451-61	3.4	30
67	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> , <b>1994</b> , 1190, 1-8	3.8	30
66	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> , <b>2014</b> , 289, 24463-74	5.4	29
65	Sphingolipid levels crucially modulate lateral microdomain organization of plasma membrane in living yeast. <i>FEBS Letters</i> , <b>2014</b> , 588, 443-9	3.8	28
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> , <b>2011</b> , 286, 43527-36	5.4	24
63	Sensing of carbon dioxide by a decrease in photoinduced electron transfer quenching. <i>Analytical Biochemistry</i> , <b>1999</b> , 272, 87-93	3.1	24
62	The C-terminal segment of yeast BMH proteins exhibits different structure compared to other 14-3-3 protein isoforms. <i>Biochemistry</i> , <b>2010</b> , 49, 3853-61	3.2	23
61	Monitoring of membrane potential changes in <i>Saccharomyces cerevisiae</i> by diS-C3(3) fluorescence. <i>Folia Microbiologica</i> , <b>1997</b> , 42, 221-4	2.8	22
60	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> , <b>2005</b> , 61, 184-95	4.2	22
59	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> , <b>2000</b> , 40, 473-81	4.2	22
58	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> , <b>2010</b> , 396, 1197-210	6.5	21
57	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> , <b>1999</b> , 80, 143-51	3.5	21
56	Cysteine residues mediate high-affinity binding of thioredoxin to ASK1. <i>FEBS Journal</i> , <b>2016</b> , 283, 3821-3838	5.7	21
55	Maximum entropy analysis of analytically simulated complex fluorescence decays. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 873-81	2.4	19

54	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> , <b>2006</b> , 63, 754-67	4.2	19
53	Structural Characterization of Phosducin and Its Complex with the 14-3-3 Protein. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16246-60	5.4	18
52	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> , <b>2018</b> , 1862, 1612-1625	4	18
51	HIV Rev self-assembly is linked to a molten-globule to compact structural transition. <i>Biophysical Chemistry</i> , <b>2004</b> , 108, 101-19	3.5	18
50	The thermophilic esterase from <i>Archaeoglobus fulgidus</i> : structure and conformational dynamics at high temperature. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2000</b> , 38, 351-60	4.2	18
49	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 1. Calorimetric study. <i>Biochemistry</i> , <b>2009</b> , 48, 9448-55	3.2	16
48	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 2. Fluorescence study. <i>Biochemistry</i> , <b>2009</b> , 48, 9456-65	3.2	15
47	The origin of the diphenylhexatriene short lifetime component in membranes and solvents. <i>Chemical Physics Letters</i> , <b>1998</b> , 293, 429-435	2.5	14
46	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> , <b>2010</b> , 233, 73-83	2.3	13
45	14-3-3 protein masks the nuclear localization sequence of caspase-2. <i>FEBS Journal</i> , <b>2018</b> , 285, 4196-4213	5.7	13
44	Structural modulation of phosducin by phosphorylation and 14-3-3 protein binding. <i>Biophysical Journal</i> , <b>2012</b> , 103, 1960-9	2.9	12
43	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> , <b>1997</b> , 1325, 155-64	3.8	12
42	Spatial distribution analysis of AT- and GC-rich regions in nuclei using corrected fluorescence resonance energy transfer. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2003</b> , 51, 951-8	3.4	12
41	The advantage of global fitting of data involving complex linked reactions. <i>Methods in Molecular Biology</i> , <b>2012</b> , 796, 399-421	1.4	11
40	Electroporative adjustment of pH in living yeast cells: ratiometric fluorescence pH imaging. <i>Journal of Fluorescence</i> , <b>2005</b> , 15, 763-8	2.4	11
39	Effect of Mg <sup>2+</sup> co-doping on the photo- and thermally stimulated luminescence of the (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce epitaxial films. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116608	3.8	10
38	Functional energetic landscape in the allosteric regulation of muscle pyruvate kinase. 3. Mechanism. <i>Biochemistry</i> , <b>2009</b> , 48, 9466-70	3.2	10
37	Pyruvate kinase from the thermophilic eubacterium <i>Bacillus acidocaldarius</i> as probe to monitor the sodium concentrations in the blood. <i>Biophysical Chemistry</i> , <b>2000</b> , 84, 167-76	3.5	10

36	Monitoring of nucleophosmin oligomerization in live cells. <i>Methods and Applications in Fluorescence</i> , <b>2018</b> , 6, 035016	3.1	9
35	Fluoresceinyl-ethylenediamine-ouabain detects an acidic environment in the cardiac glycoside binding site of Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>FEBS Journal</i> , <b>1997</b> , 249, 301-8		9
34	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> , <b>2007</b> , 1774, 540-4	4	9
33	Synthesis, characterisation, and fluorescence spectroscopic mobility studies of fluorene labeled inorganic/organic hybrid polymers. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2445-2452		9
32	Shared CaM- and S100A1-binding epitopes in the distal TRPM4 N terminus. <i>FEBS Journal</i> , <b>2018</b> , 285, 599-613	5.7	9
31	Detailed kinetic analysis of the interaction between the FOXO4-DNA-binding domain and DNA. <i>Biophysical Chemistry</i> , <b>2013</b> , 184, 68-78	3.5	7
30	Study of membrane potential changes of yeast cells caused by killer toxin K1. <i>Folia Microbiologica</i> , <b>1994</b> , 39, 516-7	2.8	7
29	Monitoring of membrane potential by means of fluorescent dyes and time-resolved fluorescence spectroscopy. <i>Folia Microbiologica</i> , <b>1994</b> , 39, 521-4	2.8	7
28	Structural and functional energetic linkages in allosteric regulation of muscle pyruvate kinase. <i>Methods in Enzymology</i> , <b>2011</b> , 488, 185-217	1.7	6
27	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> , <b>2008</b> , 89, 284-91	2.2	6
26	Frequency domain fluorometry with pulsed light-emitting diodes. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1130, 56-61	6.5	6
25	A recombinant glutamine-binding protein from <i>Escherichia coli</i> : effect of ligand-binding on protein conformational dynamics. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 1847-54	2.8	6
24	Lifetime-based photoconversion of EGFP as a tool for FLIM. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 266-277	4	6
23	TRPM6 N-Terminal CaM- and S100A1-Binding Domains. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	5
22	Pseudo real-time method for monitoring of the limiting anisotropy in membranes. <i>Journal of Fluorescence</i> , <b>2004</b> , 14, 79-85	2.4	5
21	Manipulation of intracellular pH by electroporation: an alternative method for fast calibration of pH in living cells. <i>Analytical Biochemistry</i> , <b>2004</b> , 329, 348-50	3.1	5
20	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> , <b>2006</b> , 62, 193-201	4.2	5
19	Application of microscopic Forster resonance energy transfer to cytological diagnosis of the thyroid tumors. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 034008	3.5	5

18	Fluorescence properties of albumin blue 633 and 670 in plasma and whole blood. <i>Journal of Biomedical Optics</i> , <b>2001</b> , 6, 359-65	3.5	5
17	Creatine kinase structural changes induced by substrates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2009</b> , 1794, 270-4	4	4
16	Real-time background suppression during frequency domain lifetime measurements. <i>Analytical Biochemistry</i> , <b>2002</b> , 309, 19-26	3.1	4
15	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> , <b>2018</b> , 1862, 2304-2313	4	2
14	Fluorescent measurements in whole blood and plasma using red-emitting dyes <b>2000</b> ,		2
13	Lifetime- Based Imaging <b>2003</b> ,		2
12	Mapping of CaM, S100A1 and PIP2-Binding Epitopes in the Intracellular N- and C-Termini of TRPM4. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	1
11	Interaction of an IBP peptide with 14-3-3. <i>ACS Omega</i> , <b>2020</b> , 5, 5380-5388	3.9	1
10	Compact hyperspectral imager for low-light applications <b>2001</b> ,		1
9	LOW-TEMPERATURE LUMINESCENCE SPECTRA AND FLUORESCENCE LIFETIMES OF POLYCYTIDYLIC ACID IN POLYALCOHOLIC GLASSES. <i>Photochemistry and Photobiology</i> , <b>1993</b> , 57, 792-793 <sup>3.6</sup>		1
8	Integrated software packages in the physical laboratory. <i>Computer Physics Communications</i> , <b>1990</b> , 61, 219-224	4.2	1
7	TRPM7 N-terminal region forms complexes with calcium binding proteins CaM and S100A1.. <i>Heliyon</i> , <b>2021</b> , 7, e08490	3.6	1
6	NSC348884 cytotoxicity is not mediated by inhibition of nucleophosmin oligomerization		1
5	NSC348884 cytotoxicity is not mediated by inhibition of nucleophosmin oligomerization. <i>Scientific Reports</i> , <b>2021</b> , 11, 1084	4.9	1
4	14-3-3 proteins inactivate DAPK2 by promoting its dimerization and protecting key regulatory phosphosites. <i>Communications Biology</i> , <b>2021</b> , 4, 986	6.7	1
3	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> , <b>2021</b> , 168, 1-12	7.9	0
2	High Performance Hyperspectral Imager for Microimaging. <i>Microscopy and Microanalysis</i> , <b>2001</b> , 7, 14-15	0.5	
1	Kinetic Behavior of Potential-Sensitive Fluorescent Redistribution Probes: Modelling of the Time Course of Cell Staining <b>1996</b> , 145-149		

