# Petr Herman

List of Publications by Year
in descending order

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| 92 | 2,550 | 201385 | 214527 |
|---|---|---|---|
| papers | citations | 27 | 47 |
| | | h-index | g-index |

| 96 | 96 | 96 | 2912 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fluorescence lifetime-resolved pH imaging of living cells. Cytometry, 2003, 52A, 77-89. | 1.8 | 159 |
| 2 | Fluorescence Lifetime Characterization of Novel Low-pH Probes. Analytical Biochemistry, 2001, 294, 118-125. | 1.1 | 133 |
| 3 | Cloning, Overexpression, and Properties of a New Thermophilic and Thermostable Esterase with Sequence Similarity to Hormone-Sensitive Lipase Subfamily from the Archaeon Archaeoglobus fulgidus. Archives of Biochemistry and Biophysics, 2000, 373, 182-192. | 1.4 | 131 |
| 4 | Fluorescent zinc indicators for neurobiology. Journal of Neuroscience Methods, 2002, 118, 63-75. | 1.3 | 114 |
| 5 | 14-3-3 Protein Interacts with Nuclear Localization Sequence of Forkhead Transcription Factor FoxO4. Biochemistry, 2005, 44, 11608-11617. | 1.2 | 100 |
| 6 | Frequency-domain fluorescence microscopy with the LED as a light source. Journal of Microscopy, 2001, 203, 176-181. | 0.8 | 92 |
| 7 | 14-3-3Î¶ C-terminal Stretch Changes Its Conformation upon Ligand Binding and Phosphorylation at Thr232. Journal of Biological Chemistry, 2004, 279, 4531-4540. | 1.6 | 79 |
| 8 | Fluorescent probing of membrane potential in walled cells: diS-C3(3) assay inSaccharomyces cerevisiae. Yeast, 1998, 14, 1189-1197. | 0.8 | 77 |
| 9 | The Fluorescence Emission of the Apo-glucose Oxidase from Aspergillus niger as Probe to Estimate Glucose Concentrations. Biochemical and Biophysical Research Communications, 1999, 263, 550-553. | 1.0 | 73 |
| 10 | In vivo kinetics of U4/U6Â·U5 tri-snRNP formation in Cajal bodies. Molecular Biology of the Cell, 2011, 22, 513-523. | 0.9 | 71 |
| 11 | Both the N-terminal Loop and Wing W2 of the Forkhead Domain of Transcription Factor Foxo4 Are Important for DNA Binding. Journal of Biological Chemistry, 2007, 282, 8265-8275. | 1.6 | 68 |
| 12 | Molecular basis of the 14-3-3 protein-dependent activation of yeast neutral trehalase Nth1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9811-E9820. | 3.3 | 58 |
| 13 | Texture Analysis of Fluorescence Lifetime Images of AT- and GC-rich Regions in Nuclei. Journal of Histochemistry and Cytochemistry, 2001, 49, 1443-1451. | 1.3 | 56 |
| 14 | 14-3-3 Protein Masks the DNA Binding Interface of Forkhead Transcription Factor FOXO4. Journal of Biological Chemistry, 2009, 284, 19349-19360. | 1.6 | 55 |
| 15 | 14-3-3 Protein C-terminal Stretch Occupies Ligand Binding Groove and Is Displaced by Phosphopeptide Binding. Journal of Biological Chemistry, 2004, 279, 49113-49119. | 1.6 | 52 |
| 16 | Fluorescence lifetime imaging of nuclear DNA: Effect of fluorescence resonance energy transfer. Cytometry, 2000, 41, 178-185. | 1.8 | 49 |
| 17 | The 14-3-3 Protein Affects the Conformation of the Regulatory Domain of Human Tyrosine Hydroxylase. Biochemistry, 2008, 47, 1768-1777. | 1.2 | 49 |
| 18 | Structural Insight into the 14-3-3 Protein-dependent Inhibition of Protein Kinase ASK1 (Apoptosis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.6 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Molecular Distance Measurements Reveal an (Î±Î²)2Dimeric Structure of Na+/K+-ATPase. Journal of Biological Chemistry, 1998, 273, 28813-28821. | 1.6 | 43 |
| 20 | Texture analysis of fluorescence lifetime images of nuclear DNA with effect of fluorescence resonance energy transfer. Cytometry, 2001, 43, 94-100. | 1.8 | 41 |
| 21 | Fluorescent probing of membrane potential in walled cells: diSâ€C3(3) assay in Saccharomyces cerevisiae. Yeast, 1998, 14, 1189-1197. | 0.8 | 37 |
| 22 | Biophysical and Structural Characterization of the Thioredoxin-binding Domain of Protein Kinase ASK1 and Its Interaction with Reduced Thioredoxin. Journal of Biological Chemistry, 2014, 289, 24463-24474. | 1.6 | 36 |
| 23 | Sphingolipid levels crucially modulate lateral microdomain organization of plasma membrane in living yeast. FEBS Letters, 2014, 588, 443-449. | 1.3 | 36 |
| 24 | 14-3-3 protein interacts with and affects the structure of RGS domain of regulator of G protein signaling 3 (RGS3). Journal of Structural Biology, 2010, 170, 451-461. | 1.3 | 34 |
| 25 | Time-resolved polarized fluorescence studies of the temperature adaptation in Bacillus subtilis using DPH and TMA-DPH fluorescent probes. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1190, 1-8. | 1.4 | 31 |
| 26 | The role of calcium in the conformational dynamics and thermal stability of the D-galactose/D-glucose-binding protein from Escherichia coli. Proteins: Structure, Function and Bioinformatics, 2005, 61, 184-195. | 1.5 | 29 |
| 27 | 14-3-3 protein directly interacts with the kinase domain of calcium/calmodulin-dependent protein kinase kinase (CaMKK2). Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1612-1625. | 1.1 | 29 |
| 28 | Sensing of Carbon Dioxide by a Decrease in Photoinduced Electron Transfer Quenching. Analytical Biochemistry, 1999, 272, 87-93. | 1.1 | 28 |
| 29 | The C-Terminal Segment of Yeast BMH Proteins Exhibits Different Structure Compared to Other 14-3-3 Protein Isoforms. Biochemistry, 2010, 49, 3853-3861. | 1.2 | 28 |
| 30 | Effect of Mg2+ co-doping on the photo- and thermally stimulated luminescence of the (Lu,Gd)3(Ga,Al)5O12:Ce epitaxial films. Journal of Luminescence, 2019, 215, 116608. | 1.5 | 28 |
| 31 | Cysteine residues mediate highâ€affinity binding of thioredoxin to <scp>ASK</scp>1. FEBS Journal, 2016, 283, 3821-3838. | 2.2 | 27 |
| 32 | The esterase from the thermophilic eubacteriumBacillus acidocaldarius: Structural-functional relationship and comparison with the esterase from the hyperthermophilic archaeonArchaeoglobus fulgidus. Proteins: Structure, Function and Bioinformatics, 2000, 40, 473-481. | 1.5 | 26 |
| 33 | Monitoring of membrane potential changes inSaccharomyces cerevisiae by diS-C3(3) fluorescence. Folia Microbiologica, 1997, 42, 221-224. | 1.1 | 25 |
| 34 | Synthesis and spectral characterization of a long-lifetime osmium (II) metalâ€“ligand complex: a conjugatable red dye for applications in biophysics. Biophysical Chemistry, 1999, 80, 143-151. | 1.5 | 25 |
| 35 | Structural Basis for the 14-3-3 Protein-dependent Inhibition of the Regulator of G Protein Signaling 3 (RGS3) Function. Journal of Biological Chemistry, 2011, 286, 43527-43536. | 1.6 | 25 |
| 36 | Depolarization affects the lateral microdomain structure of yeast plasma membrane. FEBS Journal, 2015, 282, 419-434. | 2.2 | 24 |

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|---|---|---|---|
| 37 | Glycine-Rich Loop of Mitochondrial Processing Peptidase Î±-Subunit Is Responsible for Substrate Recognition by a Mechanism Analogous to Mitochondrial Receptor Tom20. Journal of Molecular Biology, 2010, 396, 1197-1210. | 2.0 | 22 |
| 38 | Maximum Entropy Analysis of Analytically Simulated Complex Fluorescence Decays. Journal of Fluorescence, 2011, 21, 873-881. | 1.3 | 22 |
| 39 | HIV Rev self-assembly is linked to a molten-globule to compact structural transition. Biophysical Chemistry, 2004, 108, 101-119. | 1.5 | 20 |
| 40 | D-Trehalose/D-maltose-binding protein from the hyperthermophilic archaeon Thermococcus litoralis: The binding of trehalose and maltose results in different protein conformational states. Proteins: Structure, Function and Bioinformatics, 2006, 63, 754-767. | 1.5 | 20 |
| 41 | Structural Characterization of Phosducin and Its Complex with the 14-3-3 Protein. Journal of Biological Chemistry, 2015, 290, 16246-16260. | 1.6 | 20 |
| 42 | The thermophilic esterase fromArchaeoglobus fulgidus: Structure and conformational dynamics at high temperature. , 2000, 38, 351-360. | | 19 |
| 43 | 14-3-3 proteins inactivate DAPK2 by promoting its dimerization and protecting key regulatory phosphosites. Communications Biology, 2021, 4, 986. | 2.0 | 19 |
| 44 | The origin of the diphenylhexatriene short lifetime component in membranes and solvents. Chemical Physics Letters, 1998, 293, 429-435. | 1.2 | 17 |
| 45 | 14â€3â€3 protein masks the nuclear localization sequence of caspaseâ€2. FEBS Journal, 2018, 285, 4196-4213. | 2.2 | 17 |
| 46 | Functional Energetic Landscape in the Allosteric Regulation of Muscle Pyruvate Kinase. 2. Fluorescence Study. Biochemistry, 2009, 48, 9456-9465. | 1.2 | 16 |
| 47 | Functional Energetic Landscape in the Allosteric Regulation of Muscle Pyruvate Kinase. 1. Calorimetric Study. Biochemistry, 2009, 48, 9448-9455. | 1.2 | 16 |
| 48 | 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. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1325, 155-164. | 1.4 | 15 |
| 49 | Long-Term Adaptation of Bacillus subtilis 168 to Extreme pH Affects Chemical and Physical Properties of the Cellular Membrane. Journal of Membrane Biology, 2010, 233, 73-83. | 1.0 | 15 |
| 50 | The Advantage of Global Fitting of Data Involving Complex Linked Reactions. Methods in Molecular Biology, 2012, 796, 399-421. | 0.4 | 15 |
| 51 | Electroporative Adjustment of pH in Living Yeast Cells: Ratiometric Fluorescence pH Imaging. Journal of Fluorescence, 2005, 15, 763-768. | 1.3 | 14 |
| 52 | Structural Modulation of Phosducin by Phosphorylation and 14-3-3 Protein Binding. Biophysical Journal, 2012, 103, 1960-1969. | 0.2 | 13 |
| 53 | Monitoring of nucleophosmin oligomerization in live cells. Methods and Applications in Fluorescence, 2018, 6, 035016. | 1.1 | 13 |
| 54 | Spatial Distribution Analysis of AT- and GC-rich Regions in Nuclei Using Corrected Fluorescence Resonance Energy Transfer. Journal of Histochemistry and Cytochemistry, 2003, 51, 951-958. | 1.3 | 12 |

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|---|---|---|---|
| 55 | Shared CaMâ€•and S100A1â€‰binding epitopes in the distal <scp>TRPM</scp>4 N terminus. FEBS Journal, 2018, 285, 599-613. | 2.2 | 12 |
| 56 | Pyruvate kinase from the thermophilic eubacterium Bacillus acidocaldarius as probe to monitor the sodium concentrations in the blood. Biophysical Chemistry, 2000, 84, 167-176. | 1.5 | 11 |
| 57 | Synthesis, characterisation, and fluorescence spectroscopic mobility studies of fluorene labeled inorganicâ€“organic hybrid polymers. Journal of Materials Chemistry, 2001, 11, 2445-2452. | 6.7 | 11 |
| 58 | Functional Energetic Landscape in the Allosteric Regulation of Muscle Pyruvate Kinase. 3. Mechanism. Biochemistry, 2009, 48, 9466-9470. | 1.2 | 11 |
| 59 | Study of membrane potential changes of yeast cells caused by Killer Toxin K1. Folia Microbiologica, 1994, 39, 516-517. | 1.1 | 9 |
| 60 | Fluoresceinyl-Ethylenediamine-Ouabain Detects an Acidic Environment in the Cardiac Glycoside binding Site of Na+/K+-ATPase. FEBS Journal, 1997, 249, 301-308. | 0.2 | 9 |
| 61 | A Recombinant Glutamine-Binding Protein from Escherichia coli: Effect of Ligand-Binding on Protein Conformational Dynamics. Biotechnology Progress, 2004, 20, 1847-1854. | 1.3 | 9 |
| 62 | Temperature modulates binding specificity and affinity of the d-trehalose/d-maltose-binding protein from the hyperthermophilic archaeon Thermococcus litoralis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 540-544. | 1.1 | 9 |
| 63 | Detailed kinetic analysis of the interaction between the FOXO4â€“DNA-binding domain and DNA. Biophysical Chemistry, 2013, 184, 68-78. | 1.5 | 9 |
| 64 | TRPM6 N-Terminal CaM- and S100A1-Binding Domains. International Journal of Molecular Sciences, 2019, 20, 4430. | 1.8 | 9 |
| 65 | Lifetime-based photoconversion of EGFP as a tool for FLIM. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 266-277. | 1.1 | 9 |
| 66 | Monitoring of membrane potential by means of fluorescent dyes and time-resolved fluorescence spectroscopy. Folia Microbiologica, 1994, 39, 521-524. | 1.1 | 8 |
| 67 | Fluorescence properties of albumin blue 633 and 670 in plasma and whole blood. Journal of Biomedical Optics, 2001, 6, 359. | 1.4 | 7 |
| 68 | Pressure effect on the stability and the conformational dynamics of the D-Galactose/D-Glucose-binding protein from Escherichia coli. Proteins: Structure, Function and Bioinformatics, 2005, 62, 193-201. | 1.5 | 7 |
| 69 | Timeâ€‐resolved fluorescence spectroscopy and molecular dynamics simulations point out the effects of pressure on the stability and dynamics of the porcine odorantâ€‰binding protein. Biopolymers, 2008, 89, 284-291. | 1.2 | 7 |
| 70 | Frequency Domain Fluorometry with Pulsed Lightâ€‰Emitting Diodes. Annals of the New York Academy of Sciences, 2008, 1130, 56-61. | 1.8 | 7 |
| 71 | NSC348884 cytotoxicity is not mediated by inhibition of nucleophosmin oligomerization. Scientific Reports, 2021, 11, 1084. | 1.6 | 7 |
| 72 | Real-time background suppression during frequency domain lifetime measurements. Analytical Biochemistry, 2002, 309, 19-26. | 1.1 | 6 |

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| 73 | Pseudo Real-Time Method for Monitoring of the Limiting Anisotropy in Membranes. Journal of Fluorescence, 2004, 14, 79-85. | 1.3 | 6 |
| 74 | Manipulation of intracellular pH by electroporation: an alternative method for fast calibration of pH in living cells. Analytical Biochemistry, 2004, 329, 348-350. | 1.1 | 6 |
| 75 | Application of microscopic Foì rster resonance energy transfer to cytological diagnosis of the thyroid tumors. Journal of Biomedical Optics, 2005, 10, 034008. | 1.4 | 6 |
| 76 | Creatine kinase structural changes induced by substrates. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 270-274. | 1.1 | 6 |
| 77 | Structural and Functional Energetic Linkages in Allosteric Regulation of Muscle Pyruvate Kinase. Methods in Enzymology, 2011, 488, 185-217. | 0.4 | 6 |
| 78 | Mapping of CaM, S100A1 and PIP2-Binding Epitopes in the Intracellular N- and C-Termini of TRPM4. International Journal of Molecular Sciences, 2020, 21, 4323. | 1.8 | 6 |
| 79 | AML-Related NPM Mutations Drive p53 Delocalization into the Cytoplasm with Possible Impact on p53-Dependent Stress Response. Cancers, 2021, 13, 3266. | 1.7 | 6 |
| 80 | Nedd4-2 binding to 14-3-3 modulates the accessibility of its catalytic site and WW domains. Biophysical Journal, 2022, 121, 1299-1311. | 0.2 | 5 |
| 81 | <title>Fluorescent measurements in whole blood and plasma using red-emitting dyes</title>. , 2000, , . | | 4 |
| 82 | CaMKK2 kinase domain interacts with the autoinhibitory region through the N-terminal lobe including the RP insert. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2304-2313. | 1.1 | 4 |
| 83 | Intrinsically disordered protein domain of human ameloblastin in synthetic fusion with calmodulin increases calmodulin stability and modulates its function. International Journal of Biological Macromolecules, 2021, 168, 1-12. | 3.6 | 3 |
| 84 | Lifetime- Based Imaging. , 2003, , . | | 3 |
| 85 | TRPM7 N-terminal region forms complexes with calcium binding proteins CaM and S100A1. Heliyon, 2021, 7, e08490. | 1.4 | 3 |
| 86 | LOW-TEMPERATURE LUMINESCENCE SPECTRA AND FLUORESCENCE LIFETIMES OF POLYCYTIDYLIC ACID IN POLYALCOHOLIC GLASSES. Photochemistry and Photobiology, 1993, 57, 792-795. | 1.3 | 2 |
| 87 | <title>Compact hyperspectral imager for low-light applications</title>. , 2001, , . | | 2 |
| 88 | Interaction of an IÎºBÎ± Peptide with 14-3-3. ACS Omega, 2020, 5, 5380-5388. | 1.6 | 2 |
| 89 | Integrated software packages in the physical laboratory. Computer Physics Communications, 1990, 61, 219-224. | 3.0 | 1 |
| 90 | TRPM5 Channel Binds Calcium-Binding Proteins Calmodulin and S100A1. Biochemistry, 2022, 61, 413-423. | 1.2 | 1 |

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|---|---|---|---|
| 91 | High Performance Hyperspectral Imager for Microimaging. Microscopy and Microanalysis, 2001, 7, 14-15. | 0.2 | 0 |
| 92 | Laser and Optical Radiation Safety in Biophotonics. , 2014, , 304-335. | | 0 |