

ZdeneĚk PetrĀ;Ājek

List of Publications by Year in descending order

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47
papers

2,056
citations

361413

20
h-index

254184

43
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48
all docs

48
docs citations

48
times ranked

3386
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise Measurement of Diffusion Coefficients using Scanning Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 1437-1448.	0.5	442
2	Fgf8 morphogen gradient forms by a source-sink mechanism with freely diffusing molecules. <i>Nature</i> , 2009, 461, 533-536.	27.8	335
3	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013, 12, 359-366.	27.5	240
4	Myosin motors fragment and compact membrane-bound actin filaments. <i>ELife</i> , 2013, 2, e00116.	6.0	115
5	Excitation Spectra and Brightness Optimization of Two-Photon Excited Probes. <i>Biophysical Journal</i> , 2012, 102, 934-944.	0.5	100
6	MinCDE exploits the dynamic nature of FtsZ filaments for its spatial regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1192-200.	7.1	66
7	Characterization of Protein Dynamics in Asymmetric Cell Division by Scanning Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 95, 5476-5486.	0.5	52
8	Excitation energy transfer from phycobiliprotein to chlorophyll d in intact cells of <i>Acaryochloris marina</i> studied by time- and wavelength-resolved fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1016.	2.9	48
9	A comprehensive framework for fluorescence cross-correlation spectroscopy. <i>New Journal of Physics</i> , 2010, 12, 113009.	2.9	44
10	Correcting for Spectral Cross-Talk in Dual-Color Fluorescence Cross-Correlation Spectroscopy. <i>ChemPhysChem</i> , 2012, 13, 1221-1231.	2.1	43
11	A time-resolved study of concentration quenching of disulfonated aluminium phthalocyanine fluorescence. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 236-244.	2.9	41
12	Photobleaching in Two-Photon Scanning Fluorescence Correlation Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 147-158.	2.1	35
13	Scanning FCS for the Characterization of Protein Dynamics in Live Cells. <i>Methods in Enzymology</i> , 2010, 472, 317-343.	1.0	35
14	FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. <i>Biophysical Journal</i> , 2015, 108, 2371-2383.	0.5	33
15	Let the substrate flow, not the enzyme: Practical immobilization of <i>d</i> -amino acid oxidase in a glass microreactor for effective biocatalytic conversions. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2342-2349.	3.3	33
16	Wide-field time-correlated single photon counting-based fluorescence lifetime imaging microscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 942, 162365.	1.6	26
17	Sub-100 fs time resolution in wide-field time-correlated single photon counting microscopy obtained from the photon event phosphor decay. <i>New Journal of Physics</i> , 2015, 17, 023032.	2.9	24
18	Solvent effects on the photophysical and photochemical properties of (E,E)-1,6-bis(4-nitrophenyl)hexa-1,3,5-triene. <i>Perkin Transactions II RSC</i> , 2001, , 308-314.	1.1	22

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19	Wide-field photon counting fluorescence lifetime imaging microscopy: application to photosynthesizing systems. <i>Photosynthesis Research</i> , 2009, 102, 157-168.	2.9	22
20	Electrostatic Self-Assembly of Charged Colloids and Macromolecules in a Fluidic Nanoslit. <i>Small</i> , 2008, 4, 1900-1906.	10.0	21
21	Propagation of M waves on free-standing membranes. <i>Environmental Microbiology</i> , 2013, 15, 3319-3326.	3.8	20
22	Simultaneous two-photon fluorescence correlation spectroscopy and lifetime imaging of dye molecules in submicrometer fluidic structures. <i>Microscopy Research and Technique</i> , 2007, 70, 459-466.	2.2	18
23	Highly Rapid Amplification-Free and Quantitative DNA Imaging Assay. <i>Scientific Reports</i> , 2013, 3, 1852.	3.3	18
24	Biobased, Internally pH-Sensitive Materials: Immobilized Yellow Fluorescent Protein as an Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Matrices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6858-6868.	8.0	18
25	Fluctuations as a source of information in fluorescence microscopy. <i>Journal of the Royal Society Interface</i> , 2009, 6, .	3.4	17
26	Circular scanning fluorescence correlation spectroscopy on membranes. <i>Optics Express</i> , 2011, 19, 25006.	3.4	17
27	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. <i>Optics Express</i> , 2010, 18, 24888.	3.4	15
28	The micromorphology of <i>Trichoderma reesei</i> analyzed in cultivations on lactose and solid lignocellulosic substrate, and its relationship with cellulase production. <i>Biotechnology for Biofuels</i> , 2016, 9, 169.	6.2	15
29	The Dimerisation of Phthalocyanines. <i>Progress in Reaction Kinetics and Mechanism</i> , 2003, 28, 299-420.	2.1	13
30	Independence of Maximum Single Molecule Fluorescence Count Rate on the Temporal and Spectral Laser Pulse Width in Two-Photon FCS. <i>Journal of Fluorescence</i> , 2007, 17, 805-810.	2.5	13
31	Diffusion of Single-Pass Transmembrane Receptors: From the Plasma Membrane into Giant Liposomes. <i>Journal of Membrane Biology</i> , 2017, 250, 393-406.	2.1	13
32	<title>Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol</title> . , 2001, 4259, 92.		12
33	Fluorescence lifetime images and correlation spectra obtained by multidimensional TCSPC. , 2005, 5700, 144.		12
34	Introducing a fluorescence-based standard to quantify protein partitioning into membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2932-2941.	2.6	11
35	Confocal Luminescence Lifetime Imaging with Variable Scan Velocity and Its Application to Oxygen Sensing. <i>Analytical Chemistry</i> , 2016, 88, 10736-10743.	6.5	11
36	Two-photon fluorescence imaging and correlation analysis applied to protein dynamics in <i>C. elegans</i> embryo. , 2008, , .		9

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37	Simple membrane-based model of the Min oscillator. <i>New Journal of Physics</i> , 2015, 17, 043023.	2.9	9
38	Diffusion coefficients and dissociation constants of enhanced green fluorescent protein binding to free standing membranes. <i>Data in Brief</i> , 2015, 5, 537-541.	1.0	7
39	Application of novel low-intensity non-scanning fluorescence lifetime imaging microscopy for monitoring excited state dynamics in individual chloroplasts and living cells of photosynthetic organisms. , 2006, , .		6
40	Wide-field time-correlated single photon counting (TCSPC) microscopy with time resolution below the frame exposure time. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 787, 1-5.	1.6	6
41	Modeling the activity burst in the initial phase of cellulose hydrolysis by the processive cellobiohydrolase Cel7A. <i>Biotechnology and Bioengineering</i> , 2019, 116, 515-525.	3.3	6
42	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
43	Wide-field single photon counting imaging with an ultrafast camera and an image intensifier. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 695, 306-308.	1.6	1
44	Optimal parameters in variable-velocity scanning luminescence lifetime microscopy. <i>Microscopy Research and Technique</i> , 2021, 84, 71-78.	2.2	1
45	In Vivo Fluorescence Correlation and Cross-Correlation Spectroscopy. <i>Springer Series in Chemical Physics</i> , 2010, , 139-154.	0.2	1
46	Intraparticle pH Sensing Within Immobilized Enzymes: Immobilized Yellow Fluorescent Protein as Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Particles. <i>Methods in Molecular Biology</i> , 2020, 2100, 319-333.	0.9	1
47	Towards a spectrum-based bar code for identification of weakly fluorescent microparticles. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 015004.	2.3	0