ZdeneËk PetrÃ¡Å¡ek

List of Publications by Year
in descending order

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47 papers	2,056 citations	361413 20 h-index	254184 43 g-index
48 all docs	48 docs citations	48 times ranked	3386 citing authors

#	Article	IF	Citations
1	Optimal parameters in variableâ€velocity scanning luminescence lifetime microscopy. Microscopy Research and Technique, 2021, 84, 71-78.	2.2	1
2	Intraparticle pH Sensing Within Immobilized Enzymes: Immobilized Yellow Fluorescent Protein as Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Particles. Methods in Molecular Biology, 2020, 2100, 319-333.	0.9	1
3	Wide-field time-correlated single photon counting-based fluorescence lifetime imaging microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 942, 162365.	1.6	26
4	Modeling the activity burst in the initial phase of cellulose hydrolysis by the processive cellobiohydrolase Cel7A. Biotechnology and Bioengineering, 2019, 116, 515-525.	3.3	6
5	Biobased, Internally pH-Sensitive Materials: Immobilized Yellow Fluorescent Protein as an Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Matrices. ACS Applied Materials & Interfaces, 2018, 10, 6858-6868.	8.0	18
6	Diffusion of Single-Pass Transmembrane Receptors: From the Plasma Membrane into Giant Liposomes. Journal of Membrane Biology, 2017, 250, 393-406.	2.1	13
7	The micromorphology of Trichoderma reesei analyzed in cultivations on lactose and solid lignocellulosic substrate, and its relationship with cellulase production. Biotechnology for Biofuels, 2016, 9, 169.	6.2	15
8	Let the substrate flow, not the enzyme: Practical immobilization of <scp>d</scp>â€amino acid oxidase in a glass microreactor for effective biocatalytic conversions. Biotechnology and Bioengineering, 2016, 113, 2342-2349.	3.3	33
9	Confocal Luminescence Lifetime Imaging with Variable Scan Velocity and Its Application to Oxygen Sensing. Analytical Chemistry, 2016, 88, 10736-10743.	6.5	11
10	Diffusion coefficients and dissociation constants of enhanced green fluorescent protein binding to free standing membranes. Data in Brief, 2015, 5, 537-541.	1.0	7
11	Microsecond wide-field TCSPC microscopy based on an ultra-fast CMOS camera. Proceedings of SPIE, 2015, , .	0.8	2
12	Wide-field time-correlated single photon counting (TCSPC) microscopy with time resolution below the frame exposure time. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 1-5.	1.6	6
13	Simple membrane-based model of the Min oscillator. New Journal of Physics, 2015, 17, 043023.	2.9	9
14	Sub-Î¼s time resolution in wide-field time-correlated single photon counting microscopy obtained from the photon event phosphor decay. New Journal of Physics, 2015, 17, 023032.	2.9	24
15	FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. Biophysical Journal, 2015, 108, 2371-2383.	0.5	33
16	Introducing a fluorescence-based standard to quantify protein partitioning into membranes. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2932-2941.	2.6	11
17	MinCDE exploits the dynamic nature of FtsZ filaments for its spatial regulation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1192-200.	7.1	66
18	Towards a spectrum-based bar code for identification of weakly fluorescent microparticles. Methods and Applications in Fluorescence, 2014, 2, 015004.	2.3	0

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19	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. Nature Materials, 2013, 12, 359-366.	27.5	240
20	Highly Rapid Amplification-Free and Quantitative DNA Imaging Assay. Scientific Reports, 2013, 3, 1852.	3.3	18
21	Propagation of <scp>M</scp>in<scp>CDE</scp> waves on freeâ€standing membranes. Environmental Microbiology, 2013, 15, 3319-3326.	3.8	20
22	Myosin motors fragment and compact membrane-bound actin filaments. ELife, 2013, 2, e00116.	6.0	115
23	Excitation Spectra and Brightness Optimization of Two-Photon Excited Probes. Biophysical Journal, 2012, 102, 934-944.	0.5	100
24	Wide-field single photon counting imaging with an ultrafast camera and an image intensifier. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 306-308.	1.6	1
25	Correcting for Spectral Crossâ€Talk in Dualâ€Color Fluorescence Crossâ€Correlation Spectroscopy. ChemPhysChem, 2012, 13, 1221-1231.	2.1	43
26	Circular scanning fluorescence correlation spectroscopy on membranes. Optics Express, 2011, 19, 25006.	3.4	17
27	A comprehensive framework for fluorescence cross-correlation spectroscopy. New Journal of Physics, 2010, 12, 113009.	2.9	44
28	Scanning FCS for the Characterization of Protein Dynamics in Live Cells. Methods in Enzymology, 2010, 472, 317-343.	1.0	35
29	Photon arrival timing with sub-camera exposure time resolution in wide-field time-resolved photon counting imaging. Optics Express, 2010, 18, 24888.	3.4	15
30	In Vivo Fluorescence Correlation and Cross-Correlation Spectroscopy. Springer Series in Chemical Physics, 2010, , 139-154.	0.2	1
31	Wide-field photon counting fluorescence lifetime imaging microscopy: application to photosynthesizing systems. Photosynthesis Research, 2009, 102, 157-168.	2.9	22
32	Fgf8 morphogen gradient forms by a source-sink mechanism with freely diffusing molecules. Nature, 2009, 461, 533-536.	27.8	335
33	Fluctuations as a source of information in fluorescence microscopy. Journal of the Royal Society Interface, 2009, 6, .	3.4	17
34	Electrostatic Selfâ€Assembly of Charged Colloids and Macromolecules in a Fluidic Nanoslit. Small, 2008, 4, 1900-1906.	10.0	21
35	Photobleaching in Twoâ€Photon Scanning Fluorescence Correlation Spectroscopy. ChemPhysChem, 2008, 9, 147-158.	2.1	35
36	Precise Measurement of Diffusion Coefficients using Scanning Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 94, 1437-1448.	0.5	442

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37	Characterization of Protein Dynamics in Asymmetric Cell Division by Scanning Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 95, 5476-5486.	0.5	52
38	Two-photon fluorescence imaging and correlation analysis applied to protein dynamics in C. elegans embryo. , 2008, , .		9
39	Simultaneous two-photon fluorescence correlation spectroscopy and lifetime imaging of dye molecules in submicrometer fluidic structures. Microscopy Research and Technique, 2007, 70, 459-466.	2.2	18
40	Independence of Maximum Single Molecule Fluorescence Count Rate on the Temporal and Spectral Laser Pulse Width in Two-Photon FCS. Journal of Fluorescence, 2007, 17, 805-810.	2.5	13
41	Application of novel low-intensity nonscanning fluorescence lifetime imaging microscopy for monitoring excited state dynamics in individual chloroplasts and living cells of photosynthetic organisms. , 2006, , .		6
42	Excitation energy transfer from phycobiliprotein to chlorophyll d in intact cells of Acaryochloris marina studied by time- and wavelength-resolved fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2005, 4, 1016.	2.9	48
43	Fluorescence lifetime images and correlation spectra obtained by multidimensional TCSPC. , 2005, 5700, 144.		12
44	A time-resolved study of concentration quenching of disulfonated aluminium phthalocyanine fluorescence. Photochemical and Photobiological Sciences, 2003, 2, 236-244.	2.9	41
45	The Dimerisation of Phthalocyanines. Progress in Reaction Kinetics and Mechanism, 2003, 28, 299-420.	2.1	13
46	Solvent effects on the photophysical and photochemical properties of (E,E,Eâ€Š)-1,6-bis(4-nitrophenyl)hexa-1,3,5-triene. Perkin Transactions II RSC, 2001, , 308-314.	1.1	22
47	<title>Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol</title>. , 2001, 4259, 92.		12