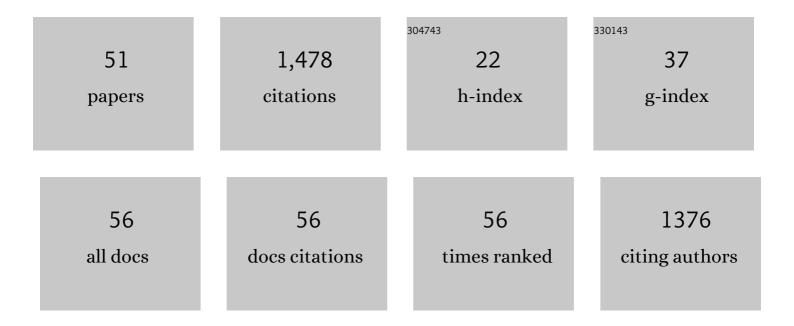
ValericÄ**f**Raicu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Determination of supramolecular structure and spatial distribution of protein complexes in living cells. Nature Photonics, 2009, 3, 107-113.	31.4	102
2	The sigma-1 receptors are present in monomeric and oligomeric forms in living cells in the presence and absence of ligands. Biochemical Journal, 2015, 466, 263-271.	3.7	101
3	Fully quantified spectral imaging reveals <i>in vivo</i> membrane protein interactions. Integrative Biology (United Kingdom), 2016, 8, 216-229.	1.3	82
4	Protein interaction quantified in vivo by spectrally resolved fluorescence resonance energy transfer. Biochemical Journal, 2005, 385, 265-277.	3.7	77
5	The muscarinic M3 acetylcholine receptor exists as two differently sized complexes at the plasma membrane. Biochemical Journal, 2013, 452, 303-312.	3.7	72
6	Two SERK Receptor-Like Kinases Interact with EMS1 to Control Anther Cell Fate Determination. Plant Physiology, 2017, 173, 326-337.	4.8	72
7	Efficiency of Resonance Energy Transfer in Homo-Oligomeric Complexes of Proteins. Journal of Biological Physics, 2007, 33, 109-127.	1.5	71
8	Dielectric properties of yeast cells as simulated by the two-shell model. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1274, 143-148.	1.0	65
9	Oligomeric Size of the M2 Muscarinic Receptor in Live Cells as Determined by Quantitative Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2010, 285, 16723-16738.	3.4	63
10	Understanding the FRET Signatures of Interacting Membrane Proteins. Journal of Biological Chemistry, 2017, 292, 5291-5310.	3.4	62
11	Development and Experimental Testing of an Optical Micro-Spectroscopic Technique Incorporating True Line-Scan Excitation. International Journal of Molecular Sciences, 2014, 15, 261-276.	4.1	57
12	Blue/violet laser inactivates methicillin-resistant Staphylococcus aureus by altering its transmembrane potential. Journal of Photochemistry and Photobiology B: Biology, 2017, 170, 118-124.	3.8	55
13	FRET Spectrometry: A New Tool for the Determination of Protein Quaternary Structure in Living Cells. Biophysical Journal, 2013, 105, 1937-1945.	0.5	54
14	Carbonic Anhydrases Function in Anther Cell Differentiation Downstream of the Receptor-Like Kinase EMS1. Plant Cell, 2017, 29, 1335-1356.	6.6	52
15	Quaternary structures of opsin in live cells revealed by FRET spectrometry. Biochemical Journal, 2016, 473, 3819-3836.	3.7	48
16	A general method to quantify ligand-driven oligomerization from fluorescence-based images. Nature Methods, 2019, 16, 493-496.	19.0	47
17	The relative antimicrobial effect of blue 405Ânm LED and blue 405Ânm laser on methicillin-resistant Staphylococcus aureus in vitro. Lasers in Medical Science, 2015, 30, 2265-2271.	2.1	43
18	Real-time monitoring of two-photon photopolymerization for use in fabrication of microfluidic devices. Lab on A Chip, 2009, 9, 819-827.	6.0	38

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19	Crossâ€ŧalk between a regulatory small <scp>RNA</scp> , cyclicâ€diâ€ <scp>GMP</scp> signalling and flagellar regulator <scp>FlhDC</scp> for virulence and bacterial behaviours. Environmental Microbiology, 2015, 17, 4745-4763.	3.8	34
20	Determination of the quaternary structure of a bacterial ATP-binding cassette (ABC) transporter in living cells. Integrative Biology (United Kingdom), 2013, 5, 312-323.	1.3	31
21	Comparison between Whole Distribution- and Average-Based Approaches to the Determination of Fluorescence Resonance Energy Transfer Efficiency in Ensembles of Proteins in Living Cells. Biophysical Journal, 2010, 98, 2127-2135.	0.5	28
22	Quaternary structure of the yeast pheromone receptor Ste2 in living cells. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1456-1464.	2.6	28
23	Determination of the Feâ^'CO Bond Energy in Myoglobin Using Heterodyne-Detected Transient Thermal Phase Grating Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 20605-20611.	2.6	20
24	Non-Debye dielectric relaxation in biological structures arises from their fractal nature. Physical Review E, 2001, 64, 021916.	2.1	19
25	Experimental Verification of the Kinetic Theory of FRET Using Optical Microspectroscopy and Obligate Oligomers. Biophysical Journal, 2015, 108, 1613-1622.	0.5	19
26	An Ire1–Phk1 Chimera Reveals a Dispensable Role of Autokinase Activity in Endoplasmic Reticulum Stress Response. Journal of Molecular Biology, 2013, 425, 2083-2099.	4.2	17
27	Chemokine receptor CXCR4 oligomerization is disrupted selectively by the antagonist ligand IT1t. Journal of Biological Chemistry, 2021, 296, 100139.	3.4	15
28	In-Cell Detection of Conformational Substates of a G Protein-Coupled Receptor Quaternary Structure: Modulation of Substate Probability by Cognate Ligand Binding. Journal of Physical Chemistry B, 2020, 124, 10062-10076.	2.6	10
29	Comparative photophysical properties of some widely used fluorescent proteins under two-photon excitation conditions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 262, 120133.	3.9	10
30	Fluorescence-based Methods for the Study of Protein-Protein Interactions Modulated by Ligand Binding. Current Pharmaceutical Design, 2020, 26, 5668-5683.	1.9	10
31	Quantitative microspectroscopic imaging reveals viral and cellular RNA helicase interactions in live cells. Journal of Biological Chemistry, 2017, 292, 11165-11177.	3.4	9
32	Extraction of information on macromolecular interactions from fluorescence micro-spectroscopy measurements in the presence and absence of FRET. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 199, 340-348.	3.9	6
33	Ab Initio Derivation of the FRET Equations Resolves Old Puzzles and Suggests Measurement Strategies. Biophysical Journal, 2019, 116, 1313-1327.	0.5	6
34	Reply to: Spatial heterogeneity in molecular brightness. Nature Methods, 2020, 17, 276-278.	19.0	6
35	Investigation of dielectric relaxation in systems with hierarchical organization: From time to frequency domain and back again. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1981-1988.	2.1	5
36	Fluorescence intensity fluctuation analysis of receptor oligomerization in membrane domains. Biophysical Journal, 2021, 120, 3028-3039.	0.5	5

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37	Advanced Microscopy Techniques. , 2017, , 39-75.		4
38	Adaptation to Endoplasmic Reticulum Stress Requires Transphosphorylation within the Activation Loop of Protein Kinases Kin1 and Kin2, Orthologs of Human Microtubule Affinity-Regulating Kinase. Molecular and Cellular Biology, 2018, 38, .	2.3	4
39	Proposal for simultaneous analysis of fluorescence intensity fluctuations and resonance energy transfer (IFRET) measurements. Methods and Applications in Fluorescence, 2020, 8, 035011.	2.3	4
40	The M ₁ muscarinic receptor is present in situ as a ligand-regulated mixture of monomers and oligomeric complexes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	4
41	Combined spectrally-resolved multiphoton microscopy and transmission microscopy employing a high-sensitivity electron-multiplying CCD camera. , 2007, , .		3
42	In vivo Quantification of G Protein Coupled Receptor Interactions using Spectrally Resolved Two-photon Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	3
43	Dielectric Spectroscopy Based Detection of Specific and Nonspecific Cellular Mechanisms. Sensors, 2021, 21, 3177.	3.8	3
44	Quantifying the efficiency of various FRET constructs using OptiMiSâ,,¢. BioTechniques, 2012, 52, 191-195.	1.8	3
45	Determination of two-photon excitation and emission spectra of fluorescent molecules in single living cells. , 2008, , .		2
46	Relaxation in systems with hierarchical organization: Analytical derivation of the relaxation and dispersion functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1063-1070.	2.1	2
47	Tissue Factor Oligomerization in Living Cells Using Förster Resonance Energy Transfer. Microscopy and Microanalysis, 2020, 26, 828-829.	0.4	2
48	Fluorescence Intensity Fluctuation Analysis of Protein Oligomerization in Cell Membranes. Current Protocols, 2022, 2, e384.	2.9	2
49	New Techniques to Study Intracellular Receptors in Living Cells: Insights Into RIC-I-Like Receptor Signaling. Advances in Experimental Medicine and Biology, 2018, 1111, 219-240.	1.6	1
50	Real time monitoring of the evolution of an epidemic regarded as a physical relaxation process. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 388, 127074.	2.1	0
51	Potentials induced by applied electrical fields in and around particles comprised of four dielectric layers. Bioelectrochemistry, 2022, 144, 108039.	4.6	Ο