

Erik Freier

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

887
citations

471509

17
h-index

580821

25
g-index

37
all docs

37
docs citations

37
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton transfer via a transient linear water-molecule chain in a membrane protein. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11435-11439.	7.1	178
2	The role of protein-bound water molecules in microbial rhodopsins. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 606-613.	1.0	114
3	In Channelrhodopsin-2 Glu-90 Is Crucial for Ion Selectivity and Is Deprotonated during the Photocycle. Journal of Biological Chemistry, 2012, 287, 6904-6911.	3.4	84
4	Directional Proton Transfer in Membrane Proteins Achieved through Protonated Protein-Bound Water Molecules: A Proton Diode. Angewandte Chemie - International Edition, 2010, 49, 6889-6893.	13.8	54
5	Preventing the coffee-ring effect and aggregate sedimentation by <i>in situ</i> gelation of monodisperse materials. Chemical Science, 2018, 9, 7596-7605.	7.4	53
6	Automated Identification of Subcellular Organelles by Coherent Anti-Stokes Raman Scattering. Biophysical Journal, 2014, 106, 1910-1920.	0.5	43
7	Infrared spectral marker bands characterizing a transient water wire inside a hydrophobic membrane protein. Journal of Chemical Physics, 2014, 141, 22D524.	3.0	40
8	Raman fiber-optical method for colon cancer detection: Cross-validation and outlier identification approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 181, 270-275.	3.9	28
9	Suppressing hydrogen peroxide generation to achieve oxygen-insensitivity of a [NiFe] hydrogenase in redox active films. Nature Communications, 2020, 11, 920.	12.8	28
10	Chemical fingerprinting of single glandular trichomes of Cannabis sativa by Coherent anti-Stokes Raman scattering (CARS) microscopy. BMC Plant Biology, 2018, 18, 275.	3.6	27
11	How Does a Membrane Protein Achieve a Vectorial Proton Transfer Via Water Molecules?. ChemPhysChem, 2008, 9, 2772-2778.	2.1	26
12	Nanoscale distinction of membrane patches – a TERS study of <i>Halobacterium salinarum</i> . Journal of Biophotonics, 2012, 5, 582-591.	2.3	26
13	A Delocalized Proton-Binding Site within a Membrane Protein. Biophysical Journal, 2014, 107, 174-184.	0.5	25
14	Virtual staining of colon cancer tissue by label-free Raman micro-spectroscopy. Analyst, The, 2017, 142, 1207-1215.	3.5	25
15	Colocalization of fluorescence and Raman microscopic images for the identification of subcellular compartments: a validation study. Analyst, The, 2015, 140, 2360-2368.	3.5	24
16	Identification of Novel Unspecific Peroxygenase Chimeras and Unusual YfeX Axial Heme Ligand by a Versatile High-Throughput GC-MS Approach. ChemCatChem, 2020, 12, 4788-4795.	3.7	23
17	Biochemical and pathological changes result from mutated Caveolin-3 in muscle. Skeletal Muscle, 2018, 8, 28.	4.2	19
18	Protein signature of human skin fibroblasts allows the study of the molecular etiology of rare neurological diseases. Orphanet Journal of Rare Diseases, 2021, 16, 73.	2.7	18

#	ARTICLE	IF	CITATIONS
19	Molecular pathophysiology of human MICU1 deficiency. <i>Neuropathology and Applied Neurobiology</i> , 2021, 47, 840-855.	3.2	15
20	Multiplexed Online Monitoring of Microfluidic Free-Flow Electrophoresis via Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6764-6769.	6.5	13
21	Intracellular Lipid Accumulation and Mitochondrial Dysfunction Accompanies Endoplasmic Reticulum Stress Caused by Loss of the Co-chaperone DNAJC3. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 710247.	3.7	13
22	Coupling Miniaturized Free-Flow Electrophoresis to Mass Spectrometry <i>via</i> a Multi-Emitter ESI Interface. <i>Analytical Chemistry</i> , 2021, 93, 7204-7209.	6.5	3
23	CARS Imaging Advances Early Diagnosis of Cardiac Manifestation of Fabry Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5345.	4.1	3
24	Phenotypical and Myopathological Consequences of Compound Heterozygous Missense and Nonsense Variants in SLC18A3. <i>Cells</i> , 2021, 10, 3481.	4.1	1
25	TERS Measurements on <i>Halobacterium Salinarum</i> . , 2010, , .		0