

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	CARS Imaging Advances Early Diagnosis of Cardiac Manifestation of Fabry Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5345.	4.1	3
2	Protein signature of human skin fibroblasts allows the study of the molecular etiology of rare neurological diseases. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 73.	2.7	18
3	Molecular pathophysiology of human MICU1 deficiency. <i>Neuropathology and Applied Neurobiology</i> , 2021, 47, 840-855.	3.2	15
4	Coupling Miniaturized Free-Flow Electrophoresis to Mass Spectrometry via a Multi-Emitter ESI Interface. <i>Analytical Chemistry</i> , 2021, 93, 7204-7209.	6.5	3
5	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
6	Phenotypical and Myopathological Consequences of Compound Heterozygous Missense and Nonsense Variants in SLC18A3. <i>Cells</i> , 2021, 10, 3481.	4.1	1
7	Suppressing hydrogen peroxide generation to achieve oxygen-insensitivity of a [NiFe] hydrogenase in redox active films. <i>Nature Communications</i> , 2020, 11, 920.	12.8	28
8	Multiplexed Online Monitoring of Microfluidic Free-Flow Electrophoresis via Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6764-6769.	6.5	13
9	Identification of Novel Unspecific Peroxygenase Chimeras and Unusual YfeX Axial Heme Ligand by a Versatile High-Throughput GC-MS Approach. <i>ChemCatChem</i> , 2020, 12, 4788-4795.	3.7	23
10	Chemical fingerprinting of single glandular trichomes of <i>Cannabis sativa</i> by Coherent anti-Stokes Raman scattering (CARS) microscopy. <i>BMC Plant Biology</i> , 2018, 18, 275.	3.6	27
11	Biochemical and pathological changes result from mutated Caveolin-3 in muscle. <i>Skeletal Muscle</i> , 2018, 8, 28.	4.2	19
12	Preventing the coffee-ring effect and aggregate sedimentation by <i>in situ</i> gelation of monodisperse materials. <i>Chemical Science</i> , 2018, 9, 7596-7605.	7.4	53
13	Raman fiber-optical method for colon cancer detection: Cross-validation and outlier identification approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 181, 270-275.	3.9	28
14	Virtual staining of colon cancer tissue by label-free Raman micro-spectroscopy. <i>Analyst</i> , 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. <i>Analyst</i> , The, 2015, 140, 2360-2368.	3.5	24
16	Infrared spectral marker bands characterizing a transient water wire inside a hydrophobic membrane protein. <i>Journal of Chemical Physics</i> , 2014, 141, 22D524.	3.0	40
17	A Delocalized Proton-Binding Site within a Membrane Protein. <i>Biophysical Journal</i> , 2014, 107, 174-184.	0.5	25
18	Automated Identification of Subcellular Organelles by Coherent Anti-Stokes Raman Scattering. <i>Biophysical Journal</i> , 2014, 106, 1910-1920.	0.5	43

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19	The role of protein-bound water molecules in microbial rhodopsins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 606-613.	1.0	114
20	In Channelrhodopsin-2 Glu-90 Is Crucial for Ion Selectivity and Is Deprotonated during the Photocycle. <i>Journal of Biological Chemistry</i> , 2012, 287, 6904-6911.	3.4	84
21	Nanoscale distinction of membrane patches – a TERS study of <i>Halobacterium salinarum</i> . <i>Journal of Biophotonics</i> , 2012, 5, 582-591.	2.3	26
22	Proton transfer via a transient linear water-molecule chain in a membrane protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11435-11439.	7.1	178
23	Directional Proton Transfer in Membrane Proteins Achieved through Protonated Protein-Bound Water Molecules: A Proton Diode. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6889-6893.	13.8	54
24	TERS Measurements on <i>Halobacterium Salinarum</i> . , 2010, , .		0
25	How Does a Membrane Protein Achieve a Vectorial Proton Transfer Via Water Molecules?. <i>ChemPhysChem</i> , 2008, 9, 2772-2778.	2.1	26