

Andrs Dr

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

1,779
citations

21
h-index

39
g-index

101
ext. papers

2,112
ext. citations

4.6
avg, IF

4.24
L-index

#	Paper	IF	Citations
90	A Novel Approach in Heart-Rate-Variability Analysis. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
89	Nonlinear electric response of the diffuse double layer to an abrupt charge displacement inside a biological membrane.. <i>Bioelectrochemistry</i> , 2022 , 146, 108138	5.6	0
88	Insights into graphene oxide interaction with human serum albumin in isolated state and in blood plasma. <i>International Journal of Biological Macromolecules</i> , 2021 , 175, 19-29	7.9	5
87	Surface charge, glycocalyx, and blood-brain barrier function. <i>Tissue Barriers</i> , 2021 , 9, 1904773	4.3	8
86	Transendothelial Electrical Resistance Measurement across the Blood-Brain Barrier: A Critical Review of Methods. <i>Micromachines</i> , 2021 , 12,	3.3	9
85	Dual Channel Microfluidics for Mimicking the Blood-Brain Barrier. <i>ACS Nano</i> , 2021 , 15, 2984-2993	16.7	16
84	Flow induces barrier and glycocalyx-related genes and negative surface charge in a lab-on-a-chip human blood-brain barrier model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 2201-2215	7.3	13
83	An integrated electro-optical biosensor system for rapid, low-cost detection of bacteria. <i>Microelectronic Engineering</i> , 2021 , 239-240, 111523	2.5	6
82	Breast adenocarcinoma-derived exosomes lower first-contact de-adhesion strength of adenocarcinoma cells to brain endothelial layer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 204, 111810 ⁶		2
81	Detailed analysis and comparison of different activity metrics.. <i>PLoS ONE</i> , 2021 , 16, e0261718	3.7	0
80	Biological Microscopy with Undetected Photons. <i>IEEE Access</i> , 2020 , 8, 107539-107548	3.5	4
79	Modulation of the internal structure and surface properties of natural and synthetic polymer matrices by graphene oxide doping. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1562-1570	3.2	1
78	Glycocalyx regulates the strength and kinetics of cancer cell adhesion revealed by biophysical models based on high resolution label-free optical data. <i>Scientific Reports</i> , 2020 , 10, 22422	4.9	12
77	Nonlinear Optical Investigation of Microbial Chromoproteins. <i>Frontiers in Plant Science</i> , 2020 , 11, 5478186.2		1
76	A chip device to determine surface charge properties of confluent cell monolayers by measuring streaming potential. <i>Lab on A Chip</i> , 2020 , 20, 3792-3805	7.2	8
75	Role of Protein-Water Interface in the Stacking Interactions of Granum Thylakoid Membranes-As Revealed by the Effects of Hofmeister Salts. <i>Frontiers in Plant Science</i> , 2020 , 11, 1257	6.2	10
74	Spectrokinetic characterization of photoactive yellow protein films for integrated optical applications. <i>European Biophysics Journal</i> , 2019 , 48, 465-473	1.9	2

73	Lidocaine turns the surface charge of biological membranes more positive and changes the permeability of blood-brain barrier culture models. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 1579-1591	3.8	15
72	Kinetics and Structure of Self-Assembled Flagellin Monolayers on Hydrophobic Surfaces in the Presence of Hofmeister Salts: Experimental Measurement of the Protein Interfacial Tension at the Nanometer Scale. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21375-21386	3.8	11
71	Antibiotic-resistant bacteria show widespread collateral sensitivity to antimicrobial peptides. <i>Nature Microbiology</i> , 2018 , 3, 718-731	26.6	181
70	Oscillating Electric Field Measures the Rotation Rate in a Native Rotary Enzyme. <i>Scientific Reports</i> , 2017 , 7, 45309	4.9	2
69	A versatile lab-on-a-chip tool for modeling biological barriers. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 1209-1219	8.5	100
68	The interfacial tension concept, as revealed by fluctuations. <i>Current Opinion in Colloid and Interface Science</i> , 2016 , 23, 29-40	7.6	9
67	Lognormal distribution of firing time and rate from a single neuron?. <i>Cognitive Neurodynamics</i> , 2015 , 9, 459-62	4.2	6
66	Stretching of red blood cells using an electro-optics trap. <i>Biomedical Optics Express</i> , 2015 , 6, 118-23	3.5	18
65	Integrated optical biosensor for rapid detection of bacteria. <i>Optofluidics, Microfluidics and Nanofluidics</i> , 2015 , 2,		5
64	Restraint Stress-Induced Morphological Changes at the Blood-Brain Barrier in Adult Rats. <i>Frontiers in Molecular Neuroscience</i> , 2015 , 8, 88	6.1	63
63	Microscopic Determination of Second-Order Nonlinear Optical Susceptibility Tensors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26409-26414	3.8	3
62	On the Hofmeister effect: fluctuations at the protein-water interface and the surface tension. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8496-504	3.4	20
61	Hydrogen peroxide contributes to the ultraviolet-B (280-315 nm) induced oxidative stress of plant leaves through multiple pathways. <i>FEBS Letters</i> , 2014 , 588, 2255-61	3.8	37
60	Estimating the rotation rate in the vacuolar proton-ATPase in native yeast vacuolar membranes. <i>European Biophysics Journal</i> , 2013 , 42, 147-58	1.9	3
59	High-speed integrated optical logic based on the protein bacteriorhodopsin. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 48-52	11.8	14
58	Effect of Hofmeister cosolutes on the photocycle of photoactive yellow protein at moderately alkaline pH. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013 , 120, 111-9	6.7	11
57	Hofmeister ions control protein dynamics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4564-72	4	11
56	2D measurement of ion currents associated to the signal transduction of the phototactic alga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 114, 147-52	6.7	

55	Protein-based ultrafast photonic switching. <i>Optics Express</i> , 2011 , 19, 18861-70	3.3	30
54	Ultrafast Integrated Optical Switching Based on the Protein Bacteriorhodopsin 2010 ,		1
53	BspRI restriction endonuclease: cloning, expression in Escherichia coli and sequential cleavage mechanism. <i>Nucleic Acids Research</i> , 2010 , 38, 7155-66	20.1	9
52	Fast integrated optical switching by the protein bacteriorhodopsin. <i>Applied Physics Letters</i> , 2010 , 97, 023305	3.4	23
51	Excitation of the M intermediates of wild-type bacteriorhodopsin and mutant D96N: temperature dependence of absorbance, electric responses and proton movements. <i>Theoretical Chemistry Accounts</i> , 2010 , 125, 365-373	1.9	1
50	Protein-based all-optical sensor device. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 26-29	8.5	16
49	All-optical logic. <i>Nanotechnology Perceptions</i> , 2010 , 6, 51-56	1.5	5
48	Manipulation of microfluidic flow pattern by optically controlled electroosmosis. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 565-569	2.8	6
47	Excitation of the M intermediates of bacteriorhodopsin. <i>Photochemistry and Photobiology</i> , 2009 , 85, 609-618	3.1	3
46	Salts, Interfacial Water and Protein Conformation. <i>Biotechnology and Biotechnological Equipment</i> , 2008 , 22, 629-633	1.6	10
45	Interfacial water structure controls protein conformation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5344-50	3.4	75
44	Integrated optical switching based on the protein bacteriorhodopsin. <i>Photochemistry and Photobiology</i> , 2007 , 83, 393-6	3.6	20
43	Control of electro-osmotic flow by light. <i>Applied Physics Letters</i> , 2006 , 89, 263508	3.4	19
42	Excitation of the L intermediate of bacteriorhodopsin: electric responses to test x-ray structures. <i>Biophysical Journal</i> , 2006 , 90, 2651-5	2.9	10
41	Phase-synchronization of daily motor activities can reveal differential circadian patterns. <i>Chronobiology International</i> , 2004 , 21, 309-14	3.6	2
40	Modeling of ionic relaxation around a biomembrane disk. <i>Bioelectrochemistry</i> , 2003 , 60, 97-106	5.6	8
39	Theory of electric signals of membrane proteins in three dimensions. <i>European Biophysics Journal</i> , 2002 , 31, 136-44	1.9	6
38	Effect of Asp85 replacement by Thr on the conformation, surface electric properties and stability of bacteriorhodopsin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 209, 193-200	5.1	3

37	Light-induced trimer to monomer transition in the main light-harvesting antenna complex of plants: thermo-optic mechanism. <i>Biochemistry</i> , 2002 , 41, 15121-9	3.2	120
36	Protein-based integrated optical switching and modulation. <i>Applied Physics Letters</i> , 2002 , 80, 4060-4062	3.4	53
35	Buffer effects on electric signals of light-excited bacteriorhodopsin mutants. <i>European Biophysics Journal</i> , 2001 , 30, 140-6	1.9	4
34	Charge Motion during the Photocycle of Bacteriorhodopsin. <i>Biochemistry (Moscow)</i> , 2001 , 66, 1234-48	2.9	21
33	Fluctuations and the Hofmeister effect. <i>Biophysical Journal</i> , 2001 , 81, 1285-94	2.9	42
32	Buffer effects on electric signals of light-excited bacteriorhodopsin. <i>Biophysical Journal</i> , 2000 , 78, 3170-7	2.9	11
31	Interpretation of the spatial charge displacements in bacteriorhodopsin in terms of structural changes during the photocycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 2776-81	11.5	15
30	Contributory presentations/posters. <i>Journal of Biosciences</i> , 1999 , 24, 33-198	2.3	
29	Bleaching of bacteriorhodopsin by continuous light. <i>FEBS Letters</i> , 1999 , 450, 154-7	3.8	25
28	Evidence for Loosening of a Protein mechanism. <i>Die Naturwissenschaften</i> , 1998 , 85, 353-355	2	26
27	Environmental stress and the biological clock in plants: Changes of rhythmic behavior of carbohydrates, antioxidant enzymes and stomatal resistance by salinity. <i>Journal of Plant Physiology</i> , 1998 , 152, 265-271	3.6	13
26	Electric signals during the bacteriorhodopsin photocycle, determined over a wide pH range. <i>Biophysical Journal</i> , 1998 , 75, 3120-6	2.9	34
25	N-like intermediate in the photocycle of the acid purple form of bacteriorhodopsin. <i>FEBS Letters</i> , 1997 , 405, 125-7	3.8	3
24	Photocurrent kinetics (in the microsecond time range) of chlorophyll a, chlorophyll b and stilbazolium merocyanine solutions in a nematic liquid crystal located in an electrochemical cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997 , 104, 133-139	4.7	20
23	The effect of azide on the photocycle of bacteriorhodopsin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997 , 40, 111-119	6.7	5
22	Electrooptical measurements on purple membrane containing bacteriorhodopsin mutants. <i>Biophysical Journal</i> , 1996 , 70, 468-72	2.9	18
21	Photoreactions and related charge displacements in the rhodopsin from <i>Sepia officinalis</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996 , 35, 7-12	6.7	2
20	Introduction of a method for three-dimensional mapping of the charge motion in bacteriorhodopsin. <i>Biophysical Chemistry</i> , 1995 , 56, 159-63	3.5	4

19	Photosynthetic charge separation in oriented membrane fragments immobilized in gel. <i>Bioelectrochemistry</i> , 1995 , 38, 53-56		5
18	Orientation of purple membrane in combined electric and magnetic fields. <i>FEBS Letters</i> , 1995 , 377, 419-208		5
17	Photoinduced electric currents in carotenoid-deficient <i>Chlamydomonas</i> mutants reconstituted with retinal and its analogs. <i>Biophysical Journal</i> , 1994 , 66, 2073-84	2.9	40
16	Kinetic characterization of the Ecal methyltransferase. <i>FEBS Journal</i> , 1993 , 218, 727-33		20
15	Photoelectric responses in phototactic flagellated algae measured in cell suspension. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992 , 13, 119-134	6.7	41
14	Charge displacements during the photocycle of halorhodopsin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992 , 15, 299-306	6.7	6
13	Orientation of membrane fragments containing (Na ⁺ + K ⁺)-ATPase. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 343, 149-157	4.1	
12	Orientation of membrane fragments containing (Na ⁺ + K ⁺)-ATPase. <i>Bioelectrochemistry</i> , 1992 , 28, 149-157		2
11	Alternative translocation of protons and halide ions by bacteriorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 4751-5	11.5	89
10	Temperature jump study of charge translocation during the bacteriorhodopsin photocycle. <i>Biophysical Journal</i> , 1989 , 56, 851-9	2.9	22
9	Bacteriorhodopsin as a possible chloride pump. <i>FEBS Letters</i> , 1989 , 259, 24-26	3.8	27
8	Counterions and the bacteriorhodopsin proton pump. <i>FEBS Letters</i> , 1988 , 229, 313-316	3.8	7
7	Orientation of the chromophore plane in purple membrane. <i>Biophysical Journal</i> , 1988 , 54, 1175-8	2.9	8
6	Hydrogen evolution from dithionite and H ₂ photoproduction by hydrogenase incorporated into various hydrophobic matrices. <i>Biochimie</i> , 1986 , 68, 211-5	4.6	9
5	Effect of enzyme concentration on apparent specific activity of hydrogenase. <i>Analytical Biochemistry</i> , 1985 , 150, 481-6	3.1	5
4	Time-resolved photoelectric and absorption signals from oriented purple membranes immobilized in gel. <i>Journal of Proteomics</i> , 1985 , 10, 295-300		103
3	Primary charge separation in halorhodopsin. <i>FEBS Letters</i> , 1985 , 187, 233-236	3.8	18
2	Electro-optical measurements on aqueous suspension of purple membrane from <i>Halobacterium halobium</i> . <i>Biophysical Journal</i> , 1983 , 43, 5-11	2.9	68

- 1 Restriction of motion of protein side chains during the photocycle of bacteriorhodopsin. *Proceedings of the National Academy of Sciences of the United States of America*, **1982**, 79, 7273-7 11.5 30