

Aleksander Balter

List of Publications by Citations

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31
papers

1,072
citations

14
h-index

32
g-index

32
ext. papers

1,103
ext. citations

2.6
avg, IF

3.39
L-index

#	Paper	IF	Citations
31	Rotational freedom of tryptophan residues in proteins and peptides. <i>Biochemistry</i> , 1983 , 22, 1741-52	3.2	210
30	Correction of timing errors in photomultiplier tubes used in phase-modulation fluorometry. <i>Journal of Proteomics</i> , 1981 , 5, 131-46		197
29	Some remarks on the interpretation of the spectral properties of prodan. <i>Chemical Physics Letters</i> , 1988 , 143, 565-570	2.5	117
28	Theory of phase-modulation fluorescence spectroscopy for excited-state processes. <i>Biophysical Chemistry</i> , 1982 , 16, 99-115	3.5	100
27	Analysis of excited-state processes by phase-modulation fluorescence spectroscopy. <i>Biophysical Chemistry</i> , 1982 , 16, 117-32	3.5	78
26	Synthesis and Characterization of a Fluorescence Probe of the Phase Transition and Dynamic Properties of Membranes. <i>Biochemistry</i> , 1983 , 22, 5714-5722	3.2	68
25	Direct recording of the initially excited and the solvent relaxed fluorescence emission spectra of tryptophan by phase sensitive detection of fluorescence. <i>Photochemistry and Photobiology</i> , 1982 , 36, 125-32	3.6	62
24	Resolution of initially excited and relaxed states of tryptophan fluorescence by differential-wavelength deconvolution of time-resolved fluorescence decays. <i>Biophysical Chemistry</i> , 1982 , 15, 353-60	3.5	36
23	Differential-wavelength deconvolution of time-resolved fluorescence intensities. A new method for the analysis of excited-state processes. <i>Biophysical Chemistry</i> , 1982 , 16, 223-40	3.5	33
22	A method of avoiding wavelength-dependent errors in decay-time measurements. <i>Optics Communications</i> , 1979 , 28, 91-96	2	25
21	Effect of ampicillin on adhesive properties of bacteria examined by atomic force microscopy. <i>Micron</i> , 2018 , 112, 84-90	2.3	20
20	Polarized absorption, fluorescence and photoacoustic spectra of phycobilisomes embedded in poly(vinyl alcohol) films. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986 , 851, 173-180	4.6	17
19	Anisotropic reorientation of perylene and 3,9-dibromoperylene in glycerol: fluorescence anisotropy decay and quantum-mechanical study. <i>Chemical Physics</i> , 1996 , 208, 283-296	2.3	16
18	Detection of the reversibility of an excited-state reaction by phase-modulation fluorometry. <i>Chemical Physics Letters</i> , 1982 , 92, 117-121	2.5	15
17	FLUORESCENCE QUENCHING FOR FLAVINS INTERACTING WITH EGG WHITE RIBOFLAVIN-BINDING PROTEIN. <i>Photochemistry and Photobiology</i> , 1985 , 41, 141-147	3.6	11
16	Fluorescence probes of viscosity: A comparative study of the fluorescence anisotropy decay of perylene and 3,9-dibromoperylene in glycerol. <i>Journal of Fluorescence</i> , 1993 , 3, 247-9	2.4	10
15	Nanomechanical unfolding of Eprexin: A major component of the synaptic junction. <i>Chemical Physics Letters</i> , 2012 , 521, 134-137	2.5	8

14	Nanomechanics of new materials [AFM and computer modelling studies of trichoptera silk. <i>Open Physics</i> , 2011 , 9,	1.3	8
13	Thermal rotations and relaxation of vibrational energy of excited dye molecules in solution. <i>Journal of Luminescence</i> , 1979 , 20, 249-259	3.8	6
12	Study of the dissipation of vibrational energy excess using pulse fluorometry. <i>Optics Communications</i> , 1980 , 34, 379-381	2	6
11	Mechanical transition in a highly stretched and torsionally constrained DNA. <i>Physical Review E</i> , 2014 , 89, 020701	2.4	5
10	A Comparative Study of the Effect of Exogenous and Endogenous Photostabilizers on Lens Crystallin Photodegradation. <i>Journal of Fluorescence</i> , 1999 , 9, 213-219	2.4	5
9	On the relation between phase-modulation and pulse fluorometry: Analysis of multiexponential fluorescence decays. <i>Optics Communications</i> , 1982 , 42, 407-410	2	5
8	Substituent-sensitive anisotropic rotations of 9-acetoxy-10-phenylanthracenes: fluorescence anisotropy decay and quantum-mechanical study. <i>Chemical Physics Letters</i> , 1999 , 313, 473-483	2.5	4
7	Computer-assisted analysis of rotational diffusion fluorescence experiments. <i>Computers & Chemistry</i> , 1995 , 19, 325-330		3
6	Fluorescence decay of solvated polar molecules in an electric field. <i>Chemical Physics</i> , 1990 , 141, 265-271	2.3	3
5	Influence of Silver Colloid on Fluorescein Spectral Properties. <i>Acta Physica Polonica A</i> , 2006 , 110, 451-458	2.6	2
4	A statistical model of steady-state solvatochromism. <i>Journal of Fluorescence</i> , 1995 , 5, 321-8	2.4	1
3	Evidence for vibrational non-equilibrium in the excited state of organic dye molecules in solution. <i>Journal of Luminescence</i> , 1981 , 26, 99-106	3.8	1
2	Laser-excited fluorescence of perylene by using self-induced second-harmonic and sum-frequency radiation emanating from high-power AlGaAs double hetero-type diodes. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 62, 557-561	1.9	
1	Adhesion heterogeneity of individual bacterial cells in an axenic culture studied by atomic force microscopy. <i>Environmental Microbiology Reports</i> , 2021 , 13, 668-674	3.7	