

Aleksander Balter

List of Publications by Year in descending order

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32
papers

1,178
citations

623734

14
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotational freedom of tryptophan residues in proteins and peptides. <i>Biochemistry</i> , 1983, 22, 1741-1752.	2.5	231
2	Correction of timing errors in photomultiplier tubes used in phase-modulation fluorometry. <i>Journal of Proteomics</i> , 1981, 5, 131-146.	2.4	226
3	Some remarks on the interpretation of the spectral properties of prodan. <i>Chemical Physics Letters</i> , 1988, 143, 565-570.	2.6	120
4	Theory of phase-modulation fluorescence spectroscopy for excited-state processes. <i>Biophysical Chemistry</i> , 1982, 16, 99-115.	2.8	106
5	Analysis of excited-state processes by phase-modulation fluorescence spectroscopy. <i>Biophysical Chemistry</i> , 1982, 16, 117-132.	2.8	83
6	Synthesis and characterization of a fluorescence probe of the transition and dynamic properties of membranes. <i>Biochemistry</i> , 1983, 22, 5714-5722.	2.5	78
7	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, 125-132.	2.5	65
8	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, 353-360.	2.8	39
9	Differential-wavelength deconvolution of time-resolved fluorescence intensities. <i>Biophysical Chemistry</i> , 1982, 16, 223-240.	2.8	37
10	Effect of ampicillin on adhesive properties of bacteria examined by atomic force microscopy. <i>Micron</i> , 2018, 112, 84-90.	2.2	31
11	A method of avoiding wavelength-dependent errors in decay-time measurements. <i>Optics Communications</i> , 1979, 28, 91-96.	2.1	30
12	Detection of the reversibility of an excited-state reaction by phase-modulation fluorometry. <i>Chemical Physics Letters</i> , 1982, 92, 117-121.	2.6	18
13	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.	1.0	17
14	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.	1.9	17
15	FLUORESCENCE QUENCHING FOR FLAVINS INTERACTING WITH EGG WHITE RIBOFLAVIN-BINDING PROTEIN. <i>Photochemistry and Photobiology</i> , 1985, 41, 141-147.	2.5	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, 247-249.	2.5	10
17	Nanomechanical unfolding of β -neurexin: A major component of the synaptic junction. <i>Chemical Physics Letters</i> , 2012, 521, 134-137.	2.6	9
18	Nanomechanics of new materials – AFM and computer modelling studies of trichoptera silk. <i>Open Physics</i> , 2011, 9, 482-491.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Thermal rotations and relaxation of vibrational energy of excited dye molecules in solution. Journal of Luminescence, 1979, 20, 249-259.	3.1	6
20	Study of the dissipation of vibrational energy excess using pulse fluorometry. Optics Communications, 1980, 34, 379-381.	2.1	6
21	Mechanical transition in a highly stretched and torsionally constrained DNA. Physical Review E, 2014, 89, 020701.	2.1	6
22	On the relation between phase-modulation and pulse fluorometry: Analysis of multiexponential fluorescence decays. Optics Communications, 1982, 42, 407-410.	2.1	5
23	Title is missing!. Journal of Fluorescence, 1999, 9, 213-219.	2.5	5
24	Substituent-sensitive anisotropic rotations of 9-acetoxy-10-phenylanthracenes: fluorescence anisotropy decay and quantum-mechanical study. Chemical Physics Letters, 1999, 313, 473-483.	2.6	4
25	Fluorescence decay of solvated polar molecules in an electric field. Chemical Physics, 1990, 141, 265-271.	1.9	3
26	Computer-assisted analysis of rotational diffusion fluorescence experiments. Computers & Chemistry, 1995, 19, 325-330.	1.2	3
27	Influence of Silver Colloid on Fluorescein Spectral Properties. Acta Physica Polonica A, 2006, 110, 451-458.	0.5	2
28	Evidence for vibrational non-equilibrium in the excited state of organic dye molecules in solution. Journal of Luminescence, 1981, 26, 99-106.	3.1	1
29	A statistical model of steady-state solvatochromism. Journal of Fluorescence, 1995, 5, 321-328.	2.5	1
30	Laser-excited fluorescence of perylene by using self-induced second-harmonic and sum-frequency radiation emanating from high-power AlGaAs double hetero-type diodes. Applied Physics B: Lasers and Optics, 1996, 62, 557-561.	2.2	0
31	Deposition of Model Biomimetic Membranes on a Soft Support. Biophysical Journal, 2010, 98, 271a-272a.	0.5	0
32	Adhesion heterogeneity of individual bacterial cells in an axenic culture studied by atomic force microscopy. Environmental Microbiology Reports, 2021, 13, 668-674.	2.4	0