

# Aleksander Balter

## List of Publications by Year in Descending Order

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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.

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	Adhesion heterogeneity of individual bacterial cells in an axenic culture studied by atomic force microscopy. <i>Environmental Microbiology Reports</i> , <b>2021</b> , 13, 668-674	3.7	
30	Effect of ampicillin on adhesive properties of bacteria examined by atomic force microscopy. <i>Micron</i> , <b>2018</b> , 112, 84-90	2.3	20
29	Mechanical transition in a highly stretched and torsionally constrained DNA. <i>Physical Review E</i> , <b>2014</b> , 89, 020701	2.4	5
28	Nanomechanical unfolding of Ehexin: A major component of the synaptic junction. <i>Chemical Physics Letters</i> , <b>2012</b> , 521, 134-137	2.5	8
27	Nanomechanics of new materials [AFM and computer modelling studies of trichoptera silk. <i>Open Physics</i> , <b>2011</b> , 9,	1.3	8
26	Influence of Silver Colloid on Fluorescein Spectral Properties. <i>Acta Physica Polonica A</i> , <b>2006</b> , 110, 451-458.	2.6	2
25	Substituent-sensitive anisotropic rotations of 9-acetoxy-10-phenylanthracenes: fluorescence anisotropy decay and quantum-mechanical study. <i>Chemical Physics Letters</i> , <b>1999</b> , 313, 473-483	2.5	4
24	A Comparative Study of the Effect of Exogenous and Endogenous Photostabilizers on Lens Crystallin Photodegradation. <i>Journal of Fluorescence</i> , <b>1999</b> , 9, 213-219	2.4	5
23	Anisotropic reorientation of perylene and 3,9-dibromoperylene in glycerol: fluorescence anisotropy decay and quantum-mechanical study. <i>Chemical Physics</i> , <b>1996</b> , 208, 283-296	2.3	16
22	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> , <b>1996</b> , 62, 557-561	1.9	
21	A statistical model of steady-state solvatochromism. <i>Journal of Fluorescence</i> , <b>1995</b> , 5, 321-8	2.4	1
20	Computer-assisted analysis of rotational diffusion fluorescence experiments. <i>Computers &amp; Chemistry</i> , <b>1995</b> , 19, 325-330		3
19	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> , <b>1993</b> , 3, 247-9	2.4	10
18	Fluorescence decay of solvated polar molecules in an electric field. <i>Chemical Physics</i> , <b>1990</b> , 141, 265-271.	2.3	3
17	Some remarks on the interpretation of the spectral properties of prodan. <i>Chemical Physics Letters</i> , <b>1988</b> , 143, 565-570	2.5	117
16	Polarized absorption, fluorescence and photoacoustic spectra of phycobilisomes embedded in poly(vinyl alcohol) films. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1986</b> , 851, 173-180	4.6	17
15	FLUORESCENCE QUENCHING FOR FLAVINS INTERACTING WITH EGG WHITE RIBOFLAVIN-BINDING PROTEIN. <i>Photochemistry and Photobiology</i> , <b>1985</b> , 41, 141-147	3.6	11

14	Synthesis and Characterization of a Fluorescence Probe of the Phase Transition and Dynamic Properties of Membranes. <i>Biochemistry</i> , <b>1983</b> , 22, 5714-5722	3.2	68
13	Rotational freedom of tryptophan residues in proteins and peptides. <i>Biochemistry</i> , <b>1983</b> , 22, 1741-52	3.2	210
12	Detection of the reversibility of an excited-state reaction by phase-modulation fluorometry. <i>Chemical Physics Letters</i> , <b>1982</b> , 92, 117-121	2.5	15
11	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> , <b>1982</b> , 36, 125-32	3.6	62
10	On the relation between phase-modulation and pulse fluorometry: Analysis of multiexponential fluorescence decays. <i>Optics Communications</i> , <b>1982</b> , 42, 407-410	2	5
9	Resolution of initially excited and relaxed states of tryptophan fluorescence by differential-wavelength deconvolution of time-resolved fluorescence decays. <i>Biophysical Chemistry</i> , <b>1982</b> , 15, 353-60	3.5	36
8	Theory of phase-modulation fluorescence spectroscopy for excited-state processes. <i>Biophysical Chemistry</i> , <b>1982</b> , 16, 99-115	3.5	100
7	Analysis of excited-state processes by phase-modulation fluorescence spectroscopy. <i>Biophysical Chemistry</i> , <b>1982</b> , 16, 117-32	3.5	78
6	Differential-wavelength deconvolution of time-resolved fluorescence intensities. A new method for the analysis of excited-state processes. <i>Biophysical Chemistry</i> , <b>1982</b> , 16, 223-40	3.5	33
5	Correction of timing errors in photomultiplier tubes used in phase-modulation fluorometry. <i>Journal of Proteomics</i> , <b>1981</b> , 5, 131-46		197
4	Evidence for vibrational non-equilibrium in the excited state of organic dye molecules in solution. <i>Journal of Luminescence</i> , <b>1981</b> , 26, 99-106	3.8	1
3	Study of the dissipation of vibrational energy excess using pulse fluorometry. <i>Optics Communications</i> , <b>1980</b> , 34, 379-381	2	6
2	Thermal rotations and relaxation of vibrational energy of excited dye molecules in solution. <i>Journal of Luminescence</i> , <b>1979</b> , 20, 249-259	3.8	6
1	A method of avoiding wavelength-dependent errors in decay-time measurements. <i>Optics Communications</i> , <b>1979</b> , 28, 91-96	2	25