

# Frank Balzer

## List of Publications by Year in descending order

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92  
papers

2,262  
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236925

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docs citations

93  
times ranked

1441  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Chiral Citronellylâ€Functionalization on Indolenine and Anilino Squaraine Thin Films. Israel Journal of Chemistry, 2022, 62, .	2.3	3
2	Determining the Dielectric Tensor of Microtextured Organic Thin Films by Imaging Mueller Matrix Ellipsometry. Journal of Physical Chemistry Letters, 2021, 12, 3053-3058.	4.6	15
3	Nanoscale Polarizationâ€Resolved Surface Photovoltage of a Pleochroic Squaraine Thin Film. Physica Status Solidi (B): Basic Research, 2020, 257, 1900570.	1.5	3
4	Structure and Dielectric Properties of Anisotropic <i>n</i> -Alkyl Anilino Squaraine Thin Films. Journal of Physical Chemistry C, 2020, 124, 22721-22732.	3.1	12
5	Polymorphic chiral squaraine crystallites in textured thin films. Chirality, 2020, 32, 619-631.	2.6	13
6	Chiral Excitonic Organic Photodiodes for Direct Detection of Circular Polarized Light. Advanced Functional Materials, 2019, 29, 1900684.	14.9	80
7	Organic Photovoltaic Sensors for Photocapacitive Stimulation of Voltageâ€Gated Ion Channels in Neuroblastoma Cells. Advanced Functional Materials, 2019, 29, 1805177.	14.9	27
8	Giant intrinsic circular dichroism of prolinol-derived squaraine thin films. Nature Communications, 2018, 9, 2413.	12.8	68
9	Quasi-one-dimensional cyano-phenylene aggregates: Uniform molecule alignment contrasts varying electrostatic surface potential. Journal of Chemical Physics, 2017, 146, 134704.	3.0	2
10	Spotlight on Excitonic Coupling in Polymorphic and Textured Anilino Squaraine Thin Films. Crystal Growth and Design, 2017, 17, 6455-6466.	3.0	36
11	Photoelectrical Stimulation of Neuronal Cells by an Organic Semiconductorâ€Electrolyte Interface. Langmuir, 2016, 32, 8533-8542.	3.5	38
12	Assembly of diverse molecular aggregates with a single, substrate-directed molecule orientation. Soft Matter, 2016, 12, 9297-9302.	2.7	2
13	Thin Film Phase and Local Chirality of Surface-Bound MOP4 Nanofibers. Journal of Physical Chemistry C, 2016, 120, 7653-7661.	3.1	11
14	Epitaxial growth of a methoxy-functionalized quaterphenylene on alkali halide surfaces. Thin Solid Films, 2015, 597, 104-111.	1.8	6
15	Automated Polarized Microscopy Analysis of Fluorescent and Birefringent Nano- and Microfibers. Springer Series in Materials Science, 2015, , 151-176.	0.6	11
16	Directed self-assembled crystalline oligomer domains on graphene and graphite. Nanotechnology, 2014, 25, 035602.	2.6	14
17	Growth of $\Gamma$ -sexithiophene nanostructures on C60 thin film layers. Thin Solid Films, 2014, 558, 165-169.	1.8	5
18	Substrate steered crystallization of naphthyl end-capped oligothiophenes into nanofibers: the influence of methoxy-functionalization. Physical Chemistry Chemical Physics, 2014, 16, 5747.	2.8	29

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19	Epitaxial growth of a methoxy-functionalized organic semiconductor on dielectric surfaces. Proceedings of SPIE, 2014, , .	0.8	4
20	Organic nanofibers from squarylium dyes: local morphology, optical, and electrical properties. , 2012, , .		1
21	Parallely and Normally Surface-Aligned Organic Nanofiber Arrays. Journal of Physical Chemistry C, 2011, 115, 20882-20887.	3.1	11
22	Stability of organic nanowires. Proceedings of SPIE, 2011, , .	0.8	5
23	Origins for epitaxial order of sexiphenyl crystals on muscovite(001). Surface and Interface Analysis, 2009, 41, 764-770.	1.8	33
24	Organic nanofibers from thiophene oligomers. Thin Solid Films, 2009, 518, 130-137.	1.8	37
25	Temperature dependent analysis of three classes of fluoescence spectra from p-6P nanofiber films. Journal of Luminescence, 2009, 129, 784-789.	3.1	17
26	Nanoaggregates from Thiophene/Phenylene Co-Oligomers. Journal of Physical Chemistry C, 2009, 113, 9601-9608.	3.1	25
27	Self-Organized Growth of Organic Thiophene~Phenylene Nanowires on Silicate Surfaces. Chemistry of Materials, 2009, 21, 4759-4767.	6.7	23
28	Self-assembly of thiophene/phenylene co-oligomers. Proceedings of SPIE, 2009, , .	0.8	0
29	Organic Nanofibers from PPTPP. Springer Proceedings in Physics, 2009, , 11-17.	0.2	3
30	Organic Molecular Nanotechnology. Small, 2008, 4, 176-181.	10.0	93
31	Light-emitting organic nanoaggregates from functionalized p-quaterphenylenes. Soft Matter, 2008, 4, 277-285.	2.7	42
32	From clusters to fibers: Parameters for discontinuous <i>para</i> -hexaphenylene thin film growth. Journal of Chemical Physics, 2008, 128, 084709.	3.0	47
33	Surface bound organic nanowires. Journal of Vacuum Science & Technology B, 2008, 26, 1619-1623.	1.3	28
34	Bottom-up tailoring of photonic nanofibers. Proceedings of SPIE, 2008, , .	0.8	1
35	Growth of Oriented Organic Nanoaggregates via Molecular Beam Deposition. , 2008, , 31-65.		0
36	Growth of nanofibers from thiophenes, thiophene-phenylenes, and phenylenes: a systematic study. , 2007, , .		10

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37	Printed second harmonic active organic nanofiber arrays. Proceedings of SPIE, 2007, , .	0.8	2
38	Tailored nanoaggregates from functionalized organic molecules. , 2007, , .		5
39	Organic Nanofibers from Chloride-Functionalized p-Quaterphenylenes. Crystal Growth and Design, 2007, 7, 229-233.	3.0	36
40	Tailoring the growth of p-6P nanofibres using ultrathin Au layers: an organic "metal" dielectric model system. Nanotechnology, 2006, 17, 984-991.	2.6	20
41	Tailoring of organic nanofiber growth for a new type of waveguides. , 2006, , .		0
42	Nanofibers from methoxy functionalized para-phenylene molecules. Surface Science, 2006, 600, 4030-4033.	1.9	22
43	Bleaching and coating of organic nanofibers. Journal of Applied Physics, 2006, 100, 054304.	2.5	17
44	Gain amplification and lasing properties of individual organic nanofibers. Applied Physics Letters, 2006, 88, 041106.	3.3	120
45	UV laser cutting of organic nanofibers. , 2005, , .		2
46	Nanofibers made to order: free floating, transferred and gel-packed organic nanoaggregates. , 2005, , .		9
47	Growth Control and Optics of Organic Nanoaggregates. Advanced Functional Materials, 2005, 15, 17-24.	14.9	116
48	Two-photon near-field mapping of local molecular orientations in hexaphenyl nanofibers. Laser Physics Letters, 2005, 2, 480-484.	1.4	12
49	Nanofibers from functionalized para-phenylene molecules. Applied Physics Letters, 2005, 86, 153107.	3.3	55
50	Nanoaggregates from oligothiophenes and oligophenylenes: a systematic growth survey. , 2005, , .		16
51	Epitaxy vs. dipole assisted growth for organic oligomer nanoaggregates. , 2005, 5925, 31.		8
52	One-Dimensional Random Lasing in a Single Organic Nanofiber. Journal of Physical Chemistry B, 2005, 109, 21690-21693.	2.6	84
53	Laseranwendungen. , 2005, , .		0
54	Chain-length dependent para-phenylene film- and needle-growth on dielectrics. Surface Science, 2004, 548, 170-182.	1.9	76

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55	Organic Nanoaggregates: A Window to Submicron Optics. IEEE Nanotechnology Magazine, 2004, 3, 67-72.	2.0	9
56	Nonlinear optics of hexaphenyl nanofibers. Chemical Physics Letters, 2003, 368, 307-312.	2.6	49
57	Optically Active Organic Microrings. Nano Letters, 2003, 3, 1311-1314.	9.1	65
58	Optical Engineering: Optically Active Organic Nanoaggregates. Optics and Photonics News, 2003, 14, 27.	0.5	3
59	Optical waveguiding in individual nanometer-scale organic fibers. Physical Review B, 2003, 67, .	3.2	178
60	Isolated hexaphenyl nanofibers as optical waveguides. Applied Physics Letters, 2003, 82, 10-12.	3.3	128
61	Organic nanofibers: a new window to optics of ultrasmall aggregates. , 2003, 5118, 263.		1
62	Analysis of nanostructured blue light-emitting p-6P films on mica. , 2003, , .		1
63	Nanofibers for linear and nonlinear photonics. , 2003, , .		3
64	Growth of optically active p-phenylene needles on mica. Surface Science, 2002, 507-510, 588-592.	1.9	33
65	Continuous and discontinuous growth of single crystalline light-emitting films on mica. , 2002, , .		0
66	<title>Novel structures and optics of p-phenylene thin films on dielectrics and metals</title>. , 2002, 4642, 110.		1
67	Laser-controlled Growth of Needle-shaped Organic Nanoaggregates. Nano Letters, 2002, 2, 747-750.	9.1	34
68	Dipole-assisted self-assembly of light-emitting p-nP needles on mica. Applied Physics Letters, 2001, 79, 3860-3862.	3.3	161
69	N2 Product Internal-State Distributions for the Steady-State Reactions of NO with H2 and NH3 on the Pt(100) Surface. Journal of Physical Chemistry B, 2001, 105, 8725-8728.	2.6	9
70	Structure and optical properties of ultrathin p-phenylene oligomer films on dielectrics. , 2001, , .		5
71	The growth of sodium rough films on mica(0 0 0 1) as determined by helium atom scattering. Applied Surface Science, 2001, 173, 262-269.	6.1	1
72	Second-harmonic generation and shielding effects of alkali clusters on ultrathin organic films. Nanotechnology, 2001, 12, 105-109.	2.6	4

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73	Interference effects in the optical second harmonic generation from ultrathin alkali films. Optics Communications, 2000, 185, 493-499.	2.1	5
74	Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films. Thin Solid Films, 2000, 372, 78-84.	1.8	8
75	Scattering of N <sub>2</sub> from Ni(111). Surface Science, 2000, 460, 12-20.	1.9	11
76	<title>UV laser ablation of ultrathin dielectric layers</title>. , 1999, , .		2
77	Alkali cluster films on insulating substrates: comparison between scanning force microscopy and extinction data. Chemical Physics Letters, 1998, 297, 273-280.	2.6	13
78	An HAS study of laser irradiation of alkali-covered dielectrics. Surface Science, 1998, 402-404, 841-844.	1.9	2
79	<title>Surface-induced changes of the optical response of particles in nanoscaled layered systems: a combined experimental and theoretical study</title>. , 1998, 3272, 42.		0
80	<title>Nonlinear optics of rough cluster films</title>. , 1998, 3272, 23.		3
81	Photodesorption of Na atoms from rough Na surfaces. Journal of Chemical Physics, 1997, 106, 7995-8012.	3.0	26
82	Frequency shifts and lifetime changes of sodium atoms near rough metal surfaces. Optics Letters, 1997, 22, 1262.	3.3	9
83	Size dependent optical second harmonic generation from surface bound Na clusters: comparison between experiment and theory. Optics Communications, 1997, 135, 103-108.	2.1	25
84	Chain length dependence of the structure of alkane thiol films on Au(111). Chemical Physics Letters, 1997, 274, 145-151.	2.6	42
85	<title>Influence of surface roughness on frequency shift and third-order nonlinear susceptibility of adsorbed particles</title>. , 1995, , .		1
86	Size effects and determination of absolute temperature increases in laser heating of dielectrics. Chemical Physics Letters, 1995, 233, 75-80.	2.6	4
87	Third-order nonlinear optics of Na clusters bound to dielectric surfaces. Chemical Physics Letters, 1995, 238, 77-81.	2.6	14
88	Real time observation of heat transfer along laser-irradiated dielectric surfaces. Surface Science, 1994, 307-309, 367-371.	1.9	3
89	<title>Dynamics of photodesorption of small particles bound to cluster surfaces</title>. , 1994, 2125, 207.		4
90	Laser excited Na atoms near metallic and dielectric surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 321-329.	1.7	6

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91	Kinetics of photo-induced dissociation of Na clusters deposited on Mica. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 28, 321-329.	1.0	15
92	Laser investigation of Na atoms deposited via inert spacer layers close to metal surfaces. Journal of Chemical Physics, 1993, 98, 7625-7635.	3.0	24