

Frank Balzer

List of Publications by Year in descending order

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92
papers

2,262
citations

236925

25
h-index

223800

46
g-index

93
all docs

93
docs citations

93
times ranked

1441
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical waveguiding in individual nanometer-scale organic fibers. <i>Physical Review B</i> , 2003, 67, .	3.2	178
2	Dipole-assisted self-assembly of light-emitting p-nP needles on mica. <i>Applied Physics Letters</i> , 2001, 79, 3860-3862.	3.3	161
3	Isolated hexaphenyl nanofibers as optical waveguides. <i>Applied Physics Letters</i> , 2003, 82, 10-12.	3.3	128
4	Gain amplification and lasing properties of individual organic nanofibers. <i>Applied Physics Letters</i> , 2006, 88, 041106.	3.3	120
5	Growth Control and Optics of Organic Nanoaggregates. <i>Advanced Functional Materials</i> , 2005, 15, 17-24.	14.9	116
6	Organic Molecular Nanotechnology. <i>Small</i> , 2008, 4, 176-181.	10.0	93
7	One-Dimensional Random Lasing in a Single Organic Nanofiber. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21690-21693.	2.6	84
8	Chiral Excitonic Organic Photodiodes for Direct Detection of Circular Polarized Light. <i>Advanced Functional Materials</i> , 2019, 29, 1900684.	14.9	80
9	Chain-length dependent para-phenylene film- and needle-growth on dielectrics. <i>Surface Science</i> , 2004, 548, 170-182.	1.9	76
10	Giant intrinsic circular dichroism of prolinol-derived squaraine thin films. <i>Nature Communications</i> , 2018, 9, 2413.	12.8	68
11	Optically Active Organic Microrings. <i>Nano Letters</i> , 2003, 3, 1311-1314.	9.1	65
12	Nanofibers from functionalized para-phenylene molecules. <i>Applied Physics Letters</i> , 2005, 86, 153107.	3.3	55
13	Nonlinear optics of hexaphenyl nanofibers. <i>Chemical Physics Letters</i> , 2003, 368, 307-312.	2.6	49
14	From clusters to fibers: Parameters for discontinuous <i>para</i> -hexaphenylene thin film growth. <i>Journal of Chemical Physics</i> , 2008, 128, 084709.	3.0	47
15	Chain length dependence of the structure of alkane thiol films on Au(111). <i>Chemical Physics Letters</i> , 1997, 274, 145-151.	2.6	42
16	Light-emitting organic nanoaggregates from functionalized p-terphenylenes. <i>Soft Matter</i> , 2008, 4, 277-285.	2.7	42
17	Photoelectrical Stimulation of Neuronal Cells by an Organic Semiconductor-Electrolyte Interface. <i>Langmuir</i> , 2016, 32, 8533-8542.	3.5	38
18	Organic nanofibers from thiophene oligomers. <i>Thin Solid Films</i> , 2009, 518, 130-137.	1.8	37

#	ARTICLE	IF	CITATIONS
19	Organic Nanofibers from Chloride-Functionalized p-Quaterphenylenes. <i>Crystal Growth and Design</i> , 2007, 7, 229-233.	3.0	36
20	Spotlight on Excitonic Coupling in Polymorphic and Textured Anilino Squaraine Thin Films. <i>Crystal Growth and Design</i> , 2017, 17, 6455-6466.	3.0	36
21	Laser-controlled Growth of Needle-shaped Organic Nanoaggregates. <i>Nano Letters</i> , 2002, 2, 747-750.	9.1	34
22	Growth of optically active p-phenylene needles on mica. <i>Surface Science</i> , 2002, 507-510, 588-592.	1.9	33
23	Origins for epitaxial order of sexiphenyl crystals on muscovite(001). <i>Surface and Interface Analysis</i> , 2009, 41, 764-770.	1.8	33
24	Substrate steered crystallization of naphthyl end-capped oligothiophenes into nanofibers: the influence of methoxy-functionalization. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5747.	2.8	29
25	Surface bound organic nanowires. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 1619-1623.	1.3	28
26	Organic Photovoltaic Sensors for Photocapacitive Stimulation of Voltage-gated Ion Channels in Neuroblastoma Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1805177.	14.9	27
27	Photodesorption of Na atoms from rough Na surfaces. <i>Journal of Chemical Physics</i> , 1997, 106, 7995-8012.	3.0	26
28	Size dependent optical second harmonic generation from surface bound Na clusters: comparison between experiment and theory. <i>Optics Communications</i> , 1997, 135, 103-108.	2.1	25
29	Nanoaggregates from Thiophene/Phenylene Co-Oligomers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9601-9608.	3.1	25
30	Laser investigation of Na atoms deposited via inert spacer layers close to metal surfaces. <i>Journal of Chemical Physics</i> , 1993, 98, 7625-7635.	3.0	24
31	Self-Organized Growth of Organic Thiophene~Phenylene Nanowires on Silicate Surfaces. <i>Chemistry of Materials</i> , 2009, 21, 4759-4767.	6.7	23
32	Nanofibers from methoxy functionalized para-phenylene molecules. <i>Surface Science</i> , 2006, 600, 4030-4033.	1.9	22
33	Tailoring the growth of p-6P nanofibres using ultrathin Au layers: an organic~metal~dielectric model system. <i>Nanotechnology</i> , 2006, 17, 984-991.	2.6	20
34	Bleaching and coating of organic nanofibers. <i>Journal of Applied Physics</i> , 2006, 100, 054304.	2.5	17
35	Temperature dependent analysis of three classes of fluorescence spectra from p-6P nanofiber films. <i>Journal of Luminescence</i> , 2009, 129, 784-789.	3.1	17
36	Nanoaggregates from oligothiophenes and oligophenylenes: a systematic growth survey. , 2005, , .		16

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37	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
38	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
39	Third-order nonlinear optics of Na clusters bound to dielectric surfaces. Chemical Physics Letters, 1995, 238, 77-81.	2.6	14
40	Directed self-assembled crystalline oligomer domains on graphene and graphite. Nanotechnology, 2014, 25, 035602.	2.6	14
41	Alkali cluster films on insulating substrates: comparison between scanning force microscopy and extinction data. Chemical Physics Letters, 1998, 297, 273-280.	2.6	13
42	Polymorphic chiral squaraine crystallites in textured thin films. Chirality, 2020, 32, 619-631.	2.6	13
43	Two-photon near-field mapping of local molecular orientations in hexaphenyl nanofibers. Laser Physics Letters, 2005, 2, 480-484.	1.4	12
44	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
45	Scattering of N ₂ from Ni(111). Surface Science, 2000, 460, 12-20.	1.9	11
46	Parallely and Normally Surface-Aligned Organic Nanofiber Arrays. Journal of Physical Chemistry C, 2011, 115, 20882-20887.	3.1	11
47	Thin Film Phase and Local Chirality of Surface-Bound MOP4 Nanofibers. Journal of Physical Chemistry C, 2016, 120, 7653-7661.	3.1	11
48	Automated Polarized Microscopy Analysis of Fluorescent and Birefringent Nano- and Microfibers. Springer Series in Materials Science, 2015, , 151-176.	0.6	11
49	Growth of nanofibers from thiophenes, thiophene-phenylenes, and phenylenes: a systematic study. , 2007, , .		10
50	Frequency shifts and lifetime changes of sodium atoms near rough metal surfaces. Optics Letters, 1997, 22, 1262.	3.3	9
51	N ₂ Product Internal-State Distributions for the Steady-State Reactions of NO with H ₂ and NH ₃ on the Pt(100) Surface. Journal of Physical Chemistry B, 2001, 105, 8725-8728.	2.6	9
52	Organic Nanoaggregates: A Window to Submicron Optics. IEEE Nanotechnology Magazine, 2004, 3, 67-72.	2.0	9
53	Nanofibers made to order: free floating, transferred and gel-packed organic nanoaggregates. , 2005, , .		9
54	Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films. Thin Solid Films, 2000, 372, 78-84.	1.8	8

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55	Epitaxy vs. dipole assisted growth for organic oligomer nanoaggregates. , 2005, 5925, 31.		8
56	Laser excited Na atoms near metallic and dielectric surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 321-329.	1.7	6
57	Epitaxial growth of a methoxy-functionalized quaterphenylene on alkali halide surfaces. Thin Solid Films, 2015, 597, 104-111.	1.8	6
58	Interference effects in the optical second harmonic generation from ultrathin alkali films. Optics Communications, 2000, 185, 493-499.	2.1	5
59	Structure and optical properties of ultrathin p-phenylene oligomer films on dielectrics. , 2001, , .		5
60	Tailored nanoaggregates from functionalized organic molecules. , 2007, , .		5
61	Stability of organic nanowires. Proceedings of SPIE, 2011, , .	0.8	5
62	Growth of Γ_6 -sexithiophene nanostructures on C60 thin film layers. Thin Solid Films, 2014, 558, 165-169.	1.8	5
63	<title>Dynamics of photodesorption of small particles bound to cluster surfaces</title>. , 1994, 2125, 207.		4
64	Size effects and determination of absolute temperature increases in laser heating of dielectrics. Chemical Physics Letters, 1995, 233, 75-80.	2.6	4
65	Second-harmonic generation and shielding effects of alkali clusters on ultrathin organic films. Nanotechnology, 2001, 12, 105-109.	2.6	4
66	Epitaxial growth of a methoxy-functionalized organic semiconductor on dielectric surfaces. Proceedings of SPIE, 2014, , .	0.8	4
67	Real time observation of heat transfer along laser-irradiated dielectric surfaces. Surface Science, 1994, 307-309, 367-371.	1.9	3
68	<title>Nonlinear optics of rough cluster films</title>. , 1998, 3272, 23.		3
69	Optical Engineering: Optically Active Organic Nanoaggregates. Optics and Photonics News, 2003, 14, 27.	0.5	3
70	Nanofibers for linear and nonlinear photonics. , 2003, , .		3
71	Nanoscale Polarization-Resolved Surface Photovoltage of a Pleochroic Squaraine Thin Film. Physica Status Solidi (B): Basic Research, 2020, 257, 1900570.	1.5	3
72	Organic Nanofibers from PPTPP. Springer Proceedings in Physics, 2009, , 11-17.	0.2	3

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73	The Impact of Chiral Citronellylâ€Functionalization on Indolenine and Anilino Squaraine Thin Films. Israel Journal of Chemistry, 2022, 62, .	2.3	3
74	An HAS study of laser irradiation of alkali-covered dielectrics. Surface Science, 1998, 402-404, 841-844.	1.9	2
75	<title>UV laser ablation of ultrathin dielectric layers</title>. , 1999, , .		2
76	UV laser cutting of organic nanofibers. , 2005, , .		2
77	Printed second harmonic active organic nanofiber arrays. Proceedings of SPIE, 2007, , .	0.8	2
78	Assembly of diverse molecular aggregates with a single, substrate-directed molecule orientation. Soft Matter, 2016, 12, 9297-9302.	2.7	2
79	Quasi-one-dimensional cyano-phenylene aggregates: Uniform molecule alignment contrasts varying electrostatic surface potential. Journal of Chemical Physics, 2017, 146, 134704.	3.0	2
80	<title>Influence of surface roughness on frequency shift and third-order nonlinear susceptibility of adsorbed particles</title>. , 1995, , .		1
81	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
82	<title>Novel structures and optics of p-phenylene thin films on dielectrics and metals</title>. , 2002, 4642, 110.		1
83	Organic nanofibers: a new window to optics of ultrasmall aggregates. , 2003, 5118, 263.		1
84	Analysis of nanostructured blue light-emitting p-6P films on mica. , 2003, , .		1
85	Bottom-up tailoring of photonic nanofibers. Proceedings of SPIE, 2008, , .	0.8	1
86	Organic nanofibers from squarylium dyes: local morphology, optical, and electrical properties. , 2012, , .		1
87	<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
88	Continuous and discontinuous growth of single crystalline light-emitting films on mica. , 2002, , .		0
89	Tailoring of organic nanofiber growth for a new type of waveguides. , 2006, , .		0
90	Self-assembly of thiophene/phenylene co-oligomers. Proceedings of SPIE, 2009, , .	0.8	0

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91	Laseraanwendungen. , 2005, , .		0
92	Growth of Oriented Organic Nanoaggregates via Molecular Beam Deposition. , 2008, , 31-65.		0