

Thilo StÄ¶ferle

List of Publications by Year in descending order

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75
papers

7,606
citations

147726

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h-index

143943

57
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77
all docs

77
docs citations

77
times ranked

7767
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition from a Strongly Interacting 1D Superfluid to a Mott Insulator. <i>Physical Review Letters</i> , 2004, 92, 130403.	2.9	898
2	Bright triplet excitons in caesium lead halide perovskites. <i>Nature</i> , 2018, 553, 189-193.	13.7	716
3	Fermionic Atoms in a Three Dimensional Optical Lattice: Observing Fermi Surfaces, Dynamics, and Interactions. <i>Physical Review Letters</i> , 2005, 94, 080403.	2.9	564
4	Room-temperature Bose-Einstein condensation of cavity exciton-polaritons in a polymer. <i>Nature Materials</i> , 2014, 13, 247-252.	13.3	540
5	Quantum states of neutrons in the Earth's gravitational field. <i>Nature</i> , 2002, 415, 297-299.	13.7	490
6	Exciting Collective Oscillations in a Trapped 1D Gas. <i>Physical Review Letters</i> , 2003, 91, 250402.	2.9	445
7	Superfluorescence from lead halide perovskite quantum dot superlattices. <i>Nature</i> , 2018, 563, 671-675.	13.7	416
8	Confinement Induced Molecules in a 1D Fermi Gas. <i>Physical Review Letters</i> , 2005, 94, 210401.	2.9	333
9	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. <i>ACS Nano</i> , 2016, 10, 2485-2490.	7.3	299
10	Bose-Fermi Mixtures in a Three-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 2006, 96, 180402.	2.9	263
11	A strong electro-optically active lead-free ferroelectric integrated on silicon. <i>Nature Communications</i> , 2013, 4, 1671.	5.8	249
12	Molecules of Fermionic Atoms in an Optical Lattice. <i>Physical Review Letters</i> , 2006, 96, 030401.	2.9	231
13	p-Wave Interactions in Low-Dimensional Fermionic Gases. <i>Physical Review Letters</i> , 2005, 95, 230401.	2.9	190
14	A room-temperature organic polariton transistor. <i>Nature Photonics</i> , 2019, 13, 378-383.	15.6	176
15	Perovskite-type superlattices from lead halide perovskite nanocubes. <i>Nature</i> , 2021, 593, 535-542.	13.7	152
16	Probing the Wave Function Delocalization in CdSe/CdS Dot-in-Rod Nanocrystals by Time- and Temperature-Resolved Spectroscopy. <i>ACS Nano</i> , 2011, 5, 4031-4036.	7.3	148
17	Excitations of a Superfluid in a Three-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 2004, 93, 240402.	2.9	111
18	A Hybrid Barium Titanate-Silicon Photonics Platform for Ultraefficient Electro-Optic Tuning. <i>Journal of Lightwave Technology</i> , 2016, 34, 1688-1693.	2.7	81

#	ARTICLE	IF	CITATIONS
19	On-Chip Integrated Quantum Silicon Nitride Microdisk Lasers. <i>Advanced Materials</i> , 2017, 29, 1604866.	11.1	77
20	Single-photon nonlinearity at room temperature. <i>Nature</i> , 2021, 597, 493-497.	13.7	77
21	Energy Transfer in Hybrid Organic/Inorganic Nanocomposites. <i>Nano Letters</i> , 2009, 9, 453-456.	4.5	75
22	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr ₃ Nanocrystals and Their Superfluorescent Assemblies. <i>ACS Central Science</i> , 2021, 7, 135-144.	5.3	75
23	Nearly Temperature-Independent Threshold for Amplified Spontaneous Emission in Colloidal CdSe/CdS Quantum Dot-in-Rods. <i>Advanced Materials</i> , 2012, 24, OP231-5.	11.1	74
24	Slotted photonic crystal nanobeam cavity with an ultrahigh quality factor-to-mode volume ratio. <i>Optics Express</i> , 2013, 21, 32468.	1.7	70
25	Band structure engineering via piezoelectric fields in strained anisotropic CdSe/CdS nanocrystals. <i>Nature Communications</i> , 2015, 6, 7905.	5.8	65
26	Band-Edge Exciton Fine Structure of Small, Nearly Spherical Colloidal CdSe/ZnS Quantum Dots. <i>ACS Nano</i> , 2011, 5, 8033-8039.	7.3	60
27	Long Exciton Dephasing Time and Coherent Phonon Coupling in CsPbBr ₂ Cl Perovskite Nanocrystals. <i>Nano Letters</i> , 2018, 18, 7546-7551.	4.5	60
28	Lasing Supraparticles Self-Assembled from Nanocrystals. <i>ACS Nano</i> , 2018, 12, 12788-12794.	7.3	51
29	Controlling the Exciton Fine Structure Splitting in CdSe/CdS Dot-in-Rod Nanojunctions. <i>ACS Nano</i> , 2012, 6, 1979-1987.	7.3	48
30	Vertical microcavities with high Q and strong lateral mode confinement. <i>Physical Review B</i> , 2013, 87, .	1.1	37
31	Ultrafast all-optical modulator with femtojoule absorbed switching energy in silicon-on-insulator. <i>Optics Express</i> , 2010, 18, 22485.	1.7	34
32	Room-Temperature Exciton-Polariton Condensation in a Tunable Zero-Dimensional Microcavity. <i>ACS Photonics</i> , 2018, 5, 85-89.	3.2	33
33	Resonant energy transfer within a colloidal nanocrystal polymer host system. <i>Applied Physics Letters</i> , 2007, 90, 071108.	1.5	28
34	Plasmonic Nanohybrid with Ultrasmall Ag Nanoparticles and Fluorescent Dyes. <i>ACS Nano</i> , 2011, 5, 3536-3541.	7.3	28
35	Zero-Dimensional Organic Exciton Polaritons in Tunable Coupled Gaussian Defect Microcavities at Room Temperature. <i>ACS Photonics</i> , 2016, 3, 1542-1545.	3.2	28
36	1D Bose gases in an optical lattice. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 1009-1012.	1.1	27

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37	Organic mixed-order photonic crystal lasers with ultrasmall footprint. Applied Physics Letters, 2007, 91, .	1.5	25
38	Dye Molecules Encapsulated in a Micelle Structure: Nano-Aggregates with Enhanced Optical Properties. Advanced Materials, 2010, 22, 3681-3684.	11.1	25
39	Shape-Directed Co-Assembly of Lead Halide Perovskite Nanocubes with Dielectric Nanodisks into Binary Nanocrystal Superlattices. ACS Nano, 2021, 15, 16488-16500.	7.3	25
40	InP-on-Si Optically Pumped Microdisk Lasers via Monolithic Growth and Wafer Bonding. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	24
41	Exciton Dynamics within the Band-Edge Manifold States: The Onset of an Acoustic Phonon Bottleneck. Nano Letters, 2012, 12, 5224-5229.	4.5	23
42	Unraveling the Origin of the Long Fluorescence Decay Component of Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2020, 14, 14939-14946.	7.3	22
43	Tunable exciton-polariton condensation in a two-dimensional Lieb lattice at room temperature. Communications Physics, 2021, 4, .	2.0	22
44	Ultracompact Silicon/Polymer Laser with an Absorption-Insensitive Nanophotonic Resonator. Nano Letters, 2010, 10, 3675-3678.	4.5	20
45	Structural Diversity in Multicomponent Nanocrystal Superlattices Comprising Lead Halide Perovskite Nanocubes. ACS Nano, 2022, 16, 7210-7232.	7.3	18
46	Control of the interaction strength of photonic molecules by nanometer precise 3D fabrication. Scientific Reports, 2017, 7, 16502.	1.6	17
47	Circular Grating Resonators as Small Mode-Volume Microcavities for Switching. Optics Express, 2009, 17, 5953.	1.7	16
48	Enhanced Room-Temperature Photoluminescence Quantum Yield in Morphology Controlled Aggregates. Advanced Science, 2021, 8, 1903080.	5.6	16
49	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. Applied Physics Letters, 2013, 103, .	1.5	15
50	Exciton Dynamics and Effects of Structural Order in Morphology-Controlled Aggregate Assemblies. Advanced Functional Materials, 2019, 29, 1806997.	7.8	15
51	Strongly interacting atoms and molecules in a 3D optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S47-S56.	0.6	13
52	Impact of the Band-Edge Fine Structure on the Energy Transfer between Colloidal Quantum Dots. Advanced Optical Materials, 2014, 2, 126-130.	3.6	12
53	Low-loss optical waveguides made with a high-loss material. Light: Science and Applications, 2021, 10, 15.	7.7	11
54	Fabrication and characterization of Ta2O5 photonic feedback structures. Microelectronic Engineering, 2008, 85, 1425-1428.	1.1	8

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55	Electro-Optical Active Barium Titanate Thin Films in Silicon Photonics Devices. , 2013, , .		8
56	Ultra-high quality-factor resonators with perfect azimuthal modal-symmetry. Optics Express, 2009, 17, 20998.	1.7	7
57	Integrated Silicon Nitride Microdisk Lasers Based on Quantum Dots. , 2016, , .		4
58	Polarization-Independent Photodetectors With Enhanced Responsivity in a Standard Silicon-on-Insulator Complementary Metal-oxide-Semiconductor Process. Journal of Lightwave Technology, 2009, 27, 4892-4896.	2.7	3
59	Exciton-polariton Bose-Einstein condensation with a polymer at room temperature. , 2015, , .		2
60	All-Optical Exciton-Polariton Transistor at Room Temperature. , 2019, , .		2
61	Circular Grating Resonators as Micro-Cavities for Optical Modulators. , 2007, , .		1
62	Ultra-small footprint photonic crystal lasers with organic gain material. , 2008, , .		1
63	Energy transfer in hybrid organic/inorganic nanocomposites. , 2009, , .		1
64	Superfluorescence from Nanocrystal Superlattices. Chimia, 2019, 73, 92.	0.3	1
65	Circular grating resonators as candidates for ultra-small photonic devices. Proceedings of SPIE, 2008, , .	0.8	0
66	Circular grating resonators as nano-photonic modulators. , 2008, , .		0
67	Silicon photonic microcavities for optical switching. , 2009, , .		0
68	Lasing from defect states in mixed-order organic laser structures. Proceedings of SPIE, 2010, , .	0.8	0
69	Photonic crystal nanobeam cavities with an ultrahigh quality factor-to-modal volume ratio. , 2013, , .		0
70	Fantastic plastic makes the quantum leap. Europhysics News, 2014, 45, 23-26.	0.1	0
71	Quantum fluids in solid materials. Materials Today, 2014, 17, 258-259.	8.3	0
72	Barium-titanate integrated with silicon photonics for ultra-efficient electro-optical performance. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
73	Creating a quantum fluid in a polymer. SPIE Newsroom, 0, , .	0.1	0
74	In full flow. Nature Physics, 2017, 13, 825-826.	6.5	0
75	Superfluorescence from Lead Halide Perovskite Quantum Dot Superlattices. , 0, , .		0