Thilo StÃ¶ferle

List of Publications by Year
in descending order

75 papers	7,606 citations	147726 31 h-index	143943 57 g-index
77 all docs	77 docs citations	77 times ranked	7767 citing authors

#	Article	IF	Citations
1	Structural Diversity in Multicomponent Nanocrystal Superlattices Comprising Lead Halide Perovskite Nanocubes. ACS Nano, 2022, 16, 7210-7232.	7.3	18
2	Enhanced Roomâ€Temperature Photoluminescence Quantum Yield in Morphology Controlled Jâ€Aggregates. Advanced Science, 2021, 8, 1903080.	5.6	16
3	Low-loss optical waveguides made with a high-loss material. Light: Science and Applications, 2021, 10, 15.	7.7	11
4	Tunable excitonâ€"polariton condensation in a two-dimensional Lieb lattice at room temperature. Communications Physics, 2021, 4, .	2.0	22
5	Perovskite-type superlattices from lead halide perovskite nanocubes. Nature, 2021, 593, 535-542.	13.7	152
6	Single-photon nonlinearity at room temperature. Nature, 2021, 597, 493-497.	13.7	77
7	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
8	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr₃ Nanocrystals and Their Superfluorescent Assemblies. ACS Central Science, 2021, 7, 135-144.	5.3	75
9	Unraveling the Origin of the Long Fluorescence Decay Component of Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2020, 14, 14939-14946.	7.3	22
10	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
11	A room-temperature organic polariton transistor. Nature Photonics, 2019, 13, 378-383.	15.6	176
12	Superfluorescence from Nanocrystal Superlattices. Chimia, 2019, 73, 92.	0.3	1
13	Exciton Dynamics and Effects of Structural Order in Morphologyâ€Controlled Jâ€Aggregate Assemblies. Advanced Functional Materials, 2019, 29, 1806997.	7.8	15
14	All-Optical Exciton-Polariton Transistor at Room Temperature. , 2019, , .		2
15	Bright triplet excitons in caesium lead halide perovskites. Nature, 2018, 553, 189-193.	13.7	716
16	Room-Temperature Exciton-Polariton Condensation in a Tunable Zero-Dimensional Microcavity. ACS Photonics, 2018, 5, 85-89.	3.2	33
17	Superfluorescence from lead halide perovskite quantum dot superlattices. Nature, 2018, 563, 671-675.	13.7	416
18	Long Exciton Dephasing Time and Coherent Phonon Coupling in CsPbBr₂Cl Perovskite Nanocrystals. Nano Letters, 2018, 18, 7546-7551.	4.5	60

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19	Lasing Supraparticles Self-Assembled from Nanocrystals. ACS Nano, 2018, 12, 12788-12794.	7.3	51
20	Onâ€Chip Integrated Quantumâ€Dotâ€“Siliconâ€Nitride Microdisk Lasers. Advanced Materials, 2017, 29, 1604866.	11.1	77
21	Control of the interaction strength of photonic molecules by nanometer precise 3D fabrication. Scientific Reports, 2017, 7, 16502.	1.6	17
22	In full flow. Nature Physics, 2017, 13, 825-826.	6.5	0
23	Zero-Dimensional Organic Excitonâ€“Polaritons in Tunable Coupled Gaussian Defect Microcavities at Room Temperature. ACS Photonics, 2016, 3, 1542-1545.	3.2	28
24	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. ACS Nano, 2016, 10, 2485-2490.	7.3	299
25	A Hybrid Barium Titanateâ€“Silicon Photonics Platform for Ultraefficient Electro-Optic Tuning. Journal of Lightwave Technology, 2016, 34, 1688-1693.	2.7	81
26	Integrated Silicon Nitride Microdisk Lasers Based on Quantum Dots. , 2016, , .		4
27	Barium-titanate integrated with silicon photonics for ultra-efficient electro-optical performance. , 2015, , .		0
28	Band structure engineering via piezoelectric fields in strained anisotropic CdSe/CdS nanocrystals. Nature Communications, 2015, 6, 7905.	5.8	65
29	Exciton-polariton Bose-Einstein condensation with a polymer at room temperature. , 2015, , .		2
30	Fantastic plastic makes the quantum leap. Europhysics News, 2014, 45, 23-26.	0.1	0
31	Room-temperature Boseâ€“Einstein condensation of cavity excitonâ€“polaritons in a polymer. Nature Materials, 2014, 13, 247-252.	13.3	540
32	Quantum fluids in solid materials. Materials Today, 2014, 17, 258-259.	8.3	0
33	Impact of the Bandâ€Edge Fine Structure on the Energy Transfer between Colloidal Quantum Dots. Advanced Optical Materials, 2014, 2, 126-130.	3.6	12
34	Photonic crystal nanobeam cavities with an ultrahigh quality factor-to-modal volume ratio. , 2013, , .		0
35	A strong electro-optically active lead-free ferroelectric integrated on silicon. Nature Communications, 2013, 4, 1671.	5.8	249
36	Slotted photonic crystal nanobeam cavity with an ultrahigh quality factor-to-mode volume ratio. Optics Express, 2013, 21, 32468.	1.7	70

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37	Electro-Optical Active Barium Titanate Thin Films in Silicon Photonics Devices. , 2013, , .		8
38	Vertical microcavities with high<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>and strong lateral mode confinement. Physical Review B, 2013, 87, .	1.1	37
39	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. Applied Physics Letters, 2013, 103, .	1.5	15
40	Controlling the Exciton Fine Structure Splitting in CdSe/CdS Dot-in-Rod Nanojunctions. ACS Nano, 2012, 6, 1979-1987.	7.3	48
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	Nearly Temperatureâ€Independent Threshold for Amplified Spontaneous Emission in Colloidal CdSe/CdS Quantum Dotâ€inâ€Rods. Advanced Materials, 2012, 24, OP231-5.	11.1	74
43	Probing the Wave Function Delocalization in CdSe/CdS Dot-in-Rod Nanocrystals by Time- and Temperature-Resolved Spectroscopy. ACS Nano, 2011, 5, 4031-4036.	7.3	148
44	Plasmonic Nanohybrid with Ultrasmall Ag Nanoparticles and Fluorescent Dyes. ACS Nano, 2011, 5, 3536-3541.	7.3	28
45	Band-Edge Exciton Fine Structure of Small, Nearly Spherical Colloidal CdSe/ZnS Quantum Dots. ACS Nano, 2011, 5, 8033-8039.	7.3	60
46	Dye Molecules Encapsulated in a Micelle Structure: Nanoâ€Aggregates with Enhanced Optical Properties. Advanced Materials, 2010, 22, 3681-3684.	11.1	25
47	Lasing from defect states in mixed-order organic laser structures. Proceedings of SPIE, 2010, , .	0.8	0
48	Ultrafast all-optical modulator with femtojoule absorbed switching energy in silicon-on-insulator. Optics Express, 2010, 18, 22485.	1.7	34
49	Ultracompact Silicon/Polymer Laser with an Absorption-Insensitive Nanophotonic Resonator. Nano Letters, 2010, 10, 3675-3678.	4.5	20
50	Silicon photonic microcavities for optical switching. , 2009, , .		0
51	Polarization-Independent Photodetectors With Enhanced Responsivity in a Standard Silicon-on-Insulator Complementary Metalâ€"Oxideâ€"Semiconductor Process. Journal of Lightwave Technology, 2009, 27, 4892-4896.	2.7	3
52	Circular Grating Resonators as Small Mode-Volume Microcavities for Switching. Optics Express, 2009, 17, 5953.	1.7	16
53	Ultra-high quality-factor resonators with perfect azimuthal modal-symmetry. Optics Express, 2009, 17, 20998.	1.7	7
54	Energy Transfer in Hybrid Organic/Inorganic Nanocomposites. Nano Letters, 2009, 9, 453-456.	4.5	75

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55	Energy transfer in hybrid organic/inorganic nanocomposites. , 2009, , .		1
56	Fabrication and characterization of Ta2O5 photonic feedback structures. Microelectronic Engineering, 2008, 85, 1425-1428.	1.1	8
57	Circular grating resonators as candidates for ultra-small photonic devices. Proceedings of SPIE, 2008, , .	0.8	0
58	Ultra-small footprint photonic crystal lasers with organic gain material. , 2008, , .		1
59	Circular grating resonators as nano-photonic modulators. , 2008, , .		0
60	Organic mixed-order photonic crystal lasers with ultrasmall footprint. Applied Physics Letters, 2007, 91, .	1.5	25
61	Circular Grating Resonators as Micro-Cavities for Optical Modulators. , 2007, , .		1
62	Resonant energy transfer within a colloidal nanocrystal polymer host system. Applied Physics Letters, 2007, 90, 071108.	1.5	28
63	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
64	Bose-Fermi Mixtures in a Three-Dimensional Optical Lattice. Physical Review Letters, 2006, 96, 180402.	2.9	263
65	Molecules of Fermionic Atoms in an Optical Lattice. Physical Review Letters, 2006, 96, 030401.	2.9	231
66	p-Wave Interactions in Low-Dimensional Fermionic Gases. Physical Review Letters, 2005, 95, 230401.	2.9	190
67	Fermionic Atoms in a Three Dimensional Optical Lattice: Observing Fermi Surfaces, Dynamics, and Interactions. Physical Review Letters, 2005, 94, 080403.	2.9	564
68	Confinement Induced Molecules in a 1D Fermi Gas. Physical Review Letters, 2005, 94, 210401.	2.9	333
69	Excitations of a Superfluid in a Three-Dimensional Optical Lattice. Physical Review Letters, 2004, 93, 240402.	2.9	111
70	1D Bose gases in an optical lattice. Applied Physics B: Lasers and Optics, 2004, 79, 1009-1012.	1.1	27
71	Transition from a Strongly Interacting 1D Superfluid to a Mott Insulator. Physical Review Letters, 2004, 92, 130403.	2.9	898
72	Exciting Collective Oscillations in a Trapped 1D Gas. Physical Review Letters, 2003, 91, 250402.	2.9	445

#	ARTICLE	IF	CITATIONS
73	Quantum states of neutrons in the Earth's gravitational field. Nature, 2002, 415, 297-299.	13.7	490
74	Creating a quantum fluid in a polymer. SPIE Newsroom, 0, , .	0.1	0
75	Superfluorescence from Lead Halide Perovskite Quantum Dot Superlattices. , 0, , .		0