Susanna M Thon

List of Publications by Year
in descending order

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73 papers	4,870 citations	186209 28 h-index	133188 59 g-index
73 all docs	73 docs citations	73 times ranked	6997 citing authors

#	Article	IF	Citations
1	Hybrid passivated colloidal quantum dot solids. Nature Nanotechnology, 2012, 7, 577-582.	15.6	1,100
2	Colloidal Quantum Dot Solar Cells. Chemical Reviews, 2015, 115, 12732-12763.	23.0	987
3	Engineering colloidal quantum dot solids within and beyond the mobility-invariant regime. Nature Communications, 2014, 5, 3803.	5.8	214
4	High Conductivity and Electronâ€Transfer Validation in an nâ€Type Fluorideâ€Anionâ€Doped Polymer for Thermoelectrics in Air. Advanced Materials, 2017, 29, 1606928.	11.1	144
5	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. Nature Photonics, 2011, 5, 605-609.	15.6	140
6	Efficient Sprayâ€Coated Colloidal Quantum Dot Solar Cells. Advanced Materials, 2015, 27, 116-121.	11.1	139
7	Colloidal Quantum Dot Solar Cells Exploiting Hierarchical Structuring. Nano Letters, 2015, 15, 1101-1108.	4.5	137
8	Ordered Nanopillar Structured Electrodes for Depleted Bulk Heterojunction Colloidal Quantum Dot Solar Cells. Advanced Materials, 2012, 24, 2315-2319.	11.1	124
9	Interface Recombination in Depleted Heterojunction Photovoltaics based on Colloidal Quantum Dots. Advanced Energy Materials, 2013, 3, 917-922.	10.2	117
10	Dynamic Trap Formation and Elimination in Colloidal Quantum Dots. Journal of Physical Chemistry Letters, 2013, 4, 987-992.	2.1	115
11	The Donorâ€“Supply Electrode Enhances Performance in Colloidal Quantum Dot Solar Cells. ACS Nano, 2013, 7, 6111-6116.	7.3	113
12	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. Applied Physics Letters, 2009, 94, .	1.5	112
13	Plasmonic Nanoparticle Enhancement of Solution-Processed Solar Cells: Practical Limits and Opportunities. ACS Photonics, 2016, 3, 158-173.	3.2	103
14	Selfâ€Assembled, Nanowire Network Electrodes for Depleted Bulk Heterojunction Solar Cells. Advanced Materials, 2013, 25, 1769-1773.	11.1	102
15	Directly Deposited Quantum Dot Solids Using a Colloidally Stable Nanoparticle Ink. Advanced Materials, 2013, 25, 5742-5749.	11.1	99
16	Jointly Tuned Plasmonicâ€“Excitonic Photovoltaics Using Nanoshells. Nano Letters, 2013, 13, 1502-1508.	4.5	93
17	Deterministic nanoassembly of a coupled quantum emitterâ€“photonic crystal cavity system. Applied Physics Letters, 2011, 98, .	1.5	83
18	Origins of Stokes Shift in PbS Nanocrystals. Nano Letters, 2017, 17, 7191-7195.	4.5	72

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19	Role of Bond Adaptability in the Passivation of Colloidal Quantum Dot Solids. ACS Nano, 2013, 7, 7680-7688.	7.3	69
20	Broadband solar absorption enhancement via periodic nanostructuring of electrodes. Scientific Reports, 2013, 3, 2928.	1.6	69
21	Optomechanical trampoline resonators. Optics Express, 2011, 19, 19708.	1.7	67
22	Impact of Yeast Pigmentation on Heat Capture and Latitudinal Distribution. Current Biology, 2018, 28, 2657-2664.e3.	1.8	63
23	The Complete Inâ€Gap Electronic Structure of Colloidal Quantum Dot Solids and Its Correlation with Electronic Transport and Photovoltaic Performance. Advanced Materials, 2014, 26, 937-942.	11.1	54
24	Highâ€Performance Quantumâ€Dot Solids via Elemental Sulfur Synthesis. Advanced Materials, 2014, 26, 3513-3519.	11.1	39
25	High-performing visible-blind photodetectors based on SnO2/CuO nanoheterojunctions. Applied Physics Letters, 2015, 107, .	1.5	38
26	Dopantâ€Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. Advanced Electronic Materials, 2019, 5, 1800618.	2.6	34
27	An Antimony Selenide Molecular Ink for Flexible Broadband Photodetectors. Advanced Electronic Materials, 2016, 2, 1600182.	2.6	31
28	Joint Mapping of Mobility and Trap Density in Colloidal Quantum Dot Solids. ACS Nano, 2013, 7, 5757-5762.	7.3	30
29	Color-tuned and transparent colloidal quantum dot solar cells via optimized multilayer interference. Optics Express, 2017, 25, A101.	1.7	30
30	Conformal Fabrication of Colloidal Quantum Dot Solids for Optically Enhanced Photovoltaics. ACS Nano, 2015, 9, 5447-5453.	7.3	29
31	Tuning micropillar cavity birefringence by laser induced surface defects. Applied Physics Letters, 2009, 95, .	1.5	25
32	Folded-Light-Path Colloidal Quantum Dot Solar Cells. Scientific Reports, 2013, 3, 2166.	1.6	21
33	Strain tuning of quantum dot optical transitions via laser-induced surface defects. Physical Review B, 2011, 84, .	1.1	20
34	Dynamics of Energy Transfer in Large Plasmonic Aluminum Nanoparticles. ACS Photonics, 2018, 5, 805-813.	3.2	20
35	3,4,5â€Trimethoxy Substitution on an Nâ€DMBI Dopant with New Nâ€Type Polymers: Polymerâ€Dopant Matching for Improved Conductivityâ€Seebeck Coefficient Relationship. Angewandte Chemie - International Edition, 2021, 60, 27212-27219.	7.2	20
36	Advancing colloidal quantum dot photovoltaic technology. Nanophotonics, 2016, 5, 31-54.	2.9	19

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37	Polychromatic Photonic Quasicrystal Cavities. Physical Review Letters, 2010, 104, 243901.	2.9	18
38	Independent tuning of quantum dots in a photonic crystal cavity. Applied Physics Letters, 2009, 95, .	1.5	17
39	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. Applied Physics Letters, 2011, 98, 121111.	1.5	17
40	Fiber-connectorized micropillar cavities. Applied Physics Letters, 2010, 97, .	1.5	15
41	Sulfur-Infused Hole Transport Materials to Overcome Performance-Limiting Transport in Colloidal Quantum Dot Solar Cells. ACS Energy Letters, 2020, 5, 2897-2904.	8.8	15
42	A New Polystyreneâ€“Poly(vinylpyridinium) Ionic Copolymer Dopant for nâ€Type Allâ€Polymer Thermoelectrics with High and Stable Conductivity Relative to the Seebeck Coefficient giving High Power Factor. Advanced Materials, 2022, 34, e2201062.	11.1	13
43	Electric field engineering using quantum-size-effect-tuned heterojunctions. Applied Physics Letters, 2013, 103, .	1.5	12
44	Solvent Responsive Selfâ€Folding of 3D Photosensitive Graphene Architectures. Advanced Intelligent Systems, 2023, 5, 2000195.	3.3	11
45	Independent electrical tuning of separated quantum dots in coupled photonic crystal cavities. Applied Physics Letters, 2011, 99, 161102.	1.5	9
46	Optical modes in oxide-apertured micropillar cavities. Optics Letters, 2012, 37, 4678.	1.7	9
47	Effect of a nanoparticle on the optical properties of a photonic crystal cavity: theory and experiment. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 698.	0.9	7
48	Integrated Concentrators for Scalable High-Power Generation from Colloidal Quantum Dot Solar Cells. ACS Applied Energy Materials, 2018, 1, 2592-2599.	2.5	7
49	Size- and Surface-Dependent Photoresponses of Solution-Processed Aluminum Nanoparticles. ACS Photonics, 2020, 7, 637-645.	3.2	7
50	Local Defects in Colloidal Quantum Dot Thin Films Measured via Spatially Resolved Multiâ€Modal Optoelectronic Spectroscopy. Advanced Materials, 2020, 32, 1906602.	11.1	7
51	Far-field emission profiles from L3 photonic crystal cavity modes. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 37-47.	1.0	6
52	Self-Assembled, Nanowire Network Electrodes for Depleted Bulk Heterojunction Solar Cells (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.1	5
53	Photonic band engineering in absorbing media for spectrally selective optoelectronic films. Optics Express, 2018, 26, 26933.	1.7	5
54	A Dichlorinated Dithienylethene-Diketopyrrolopyrrole-Based Copolymer with Pronounced Pâ€“N Crossover: Evidence for Anionic Seebeck Contribution. , 2022, 4, 1139-1145.		4

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55	Colloidal quantum dot materials for infrared optoelectronics. Proceedings of SPIE, 2015, , .	0.8	3
56	Maximized Hole Trapping in a Polystyrene Transistor Dielectric from a Highly Branched Iminobis(aminoarene) Side Chain. ACS Applied Materials & Interfaces, 2021, 13, 34584-34596.	4.0	3
57	Colloidal quantum dot photovoltaics. Proceedings of SPIE, 2011, , .	0.8	2
58	New Chalcogenide-Based Hole Transport Materials for Colloidal Quantum Dot Photovoltaics. , 2021, , .		2
59	Photovoltaics: The Complete Inâ€Gap Electronic Structure of Colloidal Quantum Dot Solids and Its Correlation with Electronic Transport and Photovoltaic Performance (Adv. Mater. 6/2014). Advanced Materials, 2014, 26, 822-822.	11.1	1
60	Spray-Cast Electrodes in Colloidal Quantum Dot Solar Cells for Portable Solar Energy Manufacturing. , 2019, , .		1
61	3,4,5â€Trimethoxy Substitution on an Nâ€DMBI Dopant with New Nâ€Type Polymers: Polymerâ€Dopant Matching for Improved Conductivityâ€Seebeck Coefficient Relationship. Angewandte Chemie, 2021, 133, 27418-27425.	1.6	1
62	Diffuse Solar Microâ€Concentrators Using Dielectric Total Internal Reflection with Tunable Side and Top Profiles. Energy Technology, 2022, 10, .	1.8	1
63	High-frequency tuning of photonic crystal defect cavity modes using surface acoustic waves. Proceedings of SPIE, 2010, , .	0.8	0
64	Single and coupled photonic crystal cavities for solid-state cavity-QED. , 2012, , .		0
65	Cavity-QED with quantum dots in oxide-apertured micropillars. , 2012, , .		0
66	Single and coupled L3 photonic crystal cavities for cavity-QED experiments. , 2012, , .		0
67	Acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
68	Time domain investigation of radio frequency acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
69	Controlling spectral selectivity in optoelectronics via photonic band engineering in absorbing media. , 2019, , .		0
70	Spectrally-selective Photovoltaics via Photonic Band Engineering in Absorbing Media. , 2019, , .		0
71	Synthesis and Characterization of Large PbSe Colloidal Quantum Dots. Particle and Particle Systems Characterization, 2021, 38, 2000285.	1.2	0
72	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0

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73	Inorganic passivation and doping control in colloidal quantum dot photovoltaics. , 2012, , .		0