

Mark W B Wilson

List of Publications by Year in descending order

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39
papers

5,223
citations

201575

27
h-index

315616

38
g-index

42
all docs

42
docs citations

42
times ranked

6490
citing authors

#	ARTICLE	IF	CITATIONS
1	Next-generation in vivo optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	490
2	Solid-state infrared-to-visible upconversion sensitized by colloidal nanocrystals. <i>Nature Photonics</i> , 2016, 10, 31-34.	15.6	418
3	A transferable model for singlet-fission kinetics. <i>Nature Chemistry</i> , 2014, 6, 492-497.	6.6	402
4	Ultrafast Dynamics of Exciton Fission in Polycrystalline Pentacene. <i>Journal of the American Chemical Society</i> , 2011, 133, 11830-11833.	6.6	394
5	Methylammonium Bismuth Iodide as a Lead-Free, Stable Hybrid Organic-Inorganic Solar Absorber. <i>Chemistry - A European Journal</i> , 2016, 22, 2605-2610.	1.7	312
6	Real-time observation of multiexcitonic states in ultrafast singlet fission using coherent 2D electronic spectroscopy. <i>Nature Chemistry</i> , 2016, 8, 16-23.	6.6	308
7	Exciton Fission and Charge Generation via Triplet Excitons in Pentacene/C ₆₀ Bilayers. <i>Journal of the American Chemical Society</i> , 2010, 132, 12698-12703.	6.6	295
8	Searching for Defect-Tolerant Photovoltaic Materials: Combined Theoretical and Experimental Screening. <i>Chemistry of Materials</i> , 2017, 29, 4667-4674.	3.2	275
9	Energy harvesting of non-emissive triplet excitons in tetracene by emissive PbS nanocrystals. <i>Nature Materials</i> , 2014, 13, 1039-1043.	13.3	235
10	Singlet Exciton Fission in Polycrystalline Pentacene: From Photophysics toward Devices. <i>Accounts of Chemical Research</i> , 2013, 46, 1330-1338.	7.6	230
11	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. <i>Nature Communications</i> , 2016, 7, 12749.	5.8	209
12	Singlet Exciton Fission-Sensitized Infrared Quantum Dot Solar Cells. <i>Nano Letters</i> , 2012, 12, 1053-1057.	4.5	200
13	Temperature-Independent Singlet Exciton Fission in Tetracene. <i>Journal of the American Chemical Society</i> , 2013, 135, 16680-16688.	6.6	198
14	Investigation of Bismuth Triiodide (BiI ₃) for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4297-4302.	2.1	176
15	In situ measurement of exciton energy in hybrid singlet-fission solar cells. <i>Nature Communications</i> , 2012, 3, 1019.	5.8	165
16	Speed Limit for Triplet-Exciton Transfer in Solid-State PbS Nanocrystal-Sensitized Photon Upconversion. <i>ACS Nano</i> , 2017, 11, 7848-7857.	7.3	130
17	Photophysics of pentacene thin films: The role of exciton fission and heating effects. <i>Physical Review B</i> , 2011, 84, .	1.1	114
18	Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Core-shell Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18515-18522.	1.5	85

#	ARTICLE	IF	CITATIONS
19	Identifying and Eliminating Emissive Subbandgap States in Thin Films of PbS Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 4481-4486.	11.1	77
20	Deconstructing the photon stream from single nanocrystals: from binning to correlation. <i>Chemical Society Reviews</i> , 2014, 43, 1287-1310.	18.7	73
21	PbS Nanocrystal Emission Is Governed by Multiple Emissive States. <i>Nano Letters</i> , 2016, 16, 6070-6077.	4.5	71
22	Triplet Dynamics in Pentacene Crystals: Applications to Fission-Sensitized Photovoltaics. <i>Advanced Materials</i> , 2014, 26, 919-924.	11.1	62
23	Saturation of the Photoluminescence at Few-Exciton Levels in a Single-Walled Carbon Nanotube under Ultrafast Excitation. <i>Physical Review Letters</i> , 2010, 104, 017401.	2.9	54
24	Excitons and charges at organic semiconductor heterojunctions. <i>Faraday Discussions</i> , 2012, 155, 339-348.	1.6	38
25	Triplet-Fusion Upconversion Using a Rigid Tetracene Homodimer. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7463-7469.	2.1	37
26	Recombination Dynamics of Charge Pairs in a Push-Pull Polyfluorene-Derivative. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4649-4653.	1.2	30
27	Loss determination in microsphere resonators by phase-shift cavity ring-down measurements. <i>Optics Express</i> , 2008, 16, 13158.	1.7	28
28	Controlling Cluster Intermediates Enables the Synthesis of Small PbS Nanocrystals with Narrow Ensemble Line Widths. <i>Chemistry of Materials</i> , 2020, 32, 4083-4094.	3.2	23
29	Ultra-small PbS nanocrystals as sensitizers for red-to-blue triplet-fusion upconversion. <i>Chemical Science</i> , 2021, 12, 14111-14120.	3.7	21
30	Directed Ligand Exchange on the Surface of PbS Nanocrystals: Implications for Incoherent Photon Conversion. <i>ACS Applied Nano Materials</i> , 2021, 4, 5655-5664.	2.4	16
31	PbS Nanocrystals Made with Excess PbCl ₂ Have an Intrinsic Shell that Reduces Their Stokes Shift. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5897-5901.	2.1	12
32	Binary Cu ₂ S Templates Direct the Formation of Quaternary Cu ₂ ZnSn ₄ (Kesterite, Wurtzite) Nanocrystals. <i>ACS Nano</i> , 2021, 15, 18085-18099.	7.3	12
33	Sub-Bandgap Optical Modulation of Quantum Dot Blinking Statistics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6404-6412.	2.1	8
34	Glycol ether additives control the size of PbS nanocrystals at reaction completion. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12068-12074.	2.7	7
35	PbS Nanocrystals Made Using Excess Lead Chloride Have a Halide-Perovskite-Like Surface. <i>Chemistry of Materials</i> , 2021, 33, 9270-9284.	3.2	6
36	Anisotropic, Nonthermal Lattice Disorder Observed in Photoexcited PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22120-22132.	1.5	5

#	ARTICLE	IF	CITATIONS
37	Scalable ways to break the efficiency limit of single-junction solar cells. Applied Physics Letters, 2022, 120, .	1.5	4
38	Vapor-Phase Deposition of Highly Luminescent Embedded Perovskite Nanocrystals. Advanced Optical Materials, 0, , 2102809.	3.6	1
39	Synthesis and optoelectronic properties of radical conjugated polyfluorenes. Chemical Communications, 2022, 58, 8630-8633.	2.2	1