Brian J Walker

List of Publications by Year
in descending order

19 papers	2,300 citations	430874 18 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	3656 citing authors

#	Article	IF	Citations
1	Singlet exciton fission in solution. Nature Chemistry, 2013, 5, 1019-1024.	13.6	450
2	Resonant energy transfer of triplet excitons from pentacene to PbSe nanocrystals. Nature Materials, 2014, 13, 1033-1038.	27.5	246
3	Alternating layer addition approach to CdSe/CdS core/shell quantum dots with near-unity quantum yield and high on-time fractions. Chemical Science, 2012, 3, 2028.	7.4	207
4	A New Interpretation of the Baylisâ^'Hillman Mechanism. Journal of Organic Chemistry, 2005, 70, 3980-3987.	3.2	193
5	Identification of a triplet pair intermediate in singlet exciton fission in solution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7656-7661.	7.1	178
6	In situ measurement of exciton energy in hybrid singlet-fission solar cells. Nature Communications, 2012, 3, 1019.	12.8	165
7	Mechanistic Insights into the Formation of InP Quantum Dots. Angewandte Chemie - International Edition, 2010, 49, 760-762.	13.8	155
8	Preventing Interfacial Recombination in Colloidal Quantum Dot Solar Cells by Doping the Metal Oxide. ACS Nano, 2013, 7, 4210-4220.	14.6	132
9	Electrostatic Formation of Quantum Dot/J-aggregate FRET Pairs in Solution. Journal of Physical Chemistry C, 2009, 113, 9986-9992.	3.1	76
10	Synthesis of Cadmium Arsenide Quantum Dots Luminescent in the Infrared. Journal of the American Chemical Society, 2011, 133, 4676-4679.	13.7	74
11	Color-Selective Photocurrent Enhancement in Coupled J-Aggregate/Nanowires Formed in Solution. Nano Letters, 2011, 11, 2655-2659.	9.1	72
12	Quantum Dot/J-Aggregate Blended Films for Light Harvesting and Energy Transfer. Nano Letters, 2010, 10, 3995-3999.	9.1	69
13	Geminate and Nongeminate Recombination of Triplet Excitons Formed by Singlet Fission. Physical Review Letters, 2014, 112, 238701.	7.8	67
14	Narrow-Band Absorption-Enhanced Quantum Dot/J-Aggregate Conjugates. Journal of the American Chemical Society, 2009, 131, 9624-9625.	13.7	61
15	Thermally-Limited Exciton Delocalization in Superradiant Molecular Aggregates. Journal of Physical Chemistry B, 2013, 117, 4553-4559.	2.6	51
16	Nanopatterned Electrically Conductive Films of Semiconductor Nanocrystals. Nano Letters, 2012, 12, 4404-4408.	9.1	47
17	Twenty-Fold Enhancement of Molecular Fluorescence by Coupling to a J-Aggregate Critically Coupled Resonator. ACS Nano, 2012, 6, 467-471.	14.6	28
18	Role of PbSe Structural Stabilization in Photovoltaic Cells. Advanced Functional Materials, 2015, 25, 928-935.	14.9	21

#	Article	IF	Citations
19	COUPLING BETWEEN J-AGGREGATES AND INORGANIC EXCITONS. , 2012, , 181-193.		1