Marc A Baldo

List of Publications by Year in descending order

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87843 143943 10,990 61 38 57 citations h-index g-index papers 63 63 63 9293 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Large Single Crystals of Two-Dimensional π-Conjugated Metal–Organic Frameworks via Biphasic Solution-Solid Growth. ACS Central Science, 2021, 7, 104-109.	5.3	40
2	Nanocrystal-Sensitized Infrared-to-Visible Upconversion in a Microcavity under Subsolar Flux. Nano Letters, 2021, 21, 1011-1016.	4.5	26
3	Interfacial Trapâ€Assisted Triplet Generation in Lead Halide Perovskite Sensitized Solid‧tate Upconversion. Advanced Materials, 2021, 33, e2100854.	11.1	18
4	Polymerization and Depolymerization of Photoluminescent Polyarylene Chalcogenides. Macromolecules, 2021, 54, 6698-6704.	2.2	3
5	Magneticâ€Fieldâ€Switchable Laser via Optical Pumping of Rubrene. Advanced Materials, 2021, , 2103870.	11.1	6
6	Magnetic Domain Wall Based Synaptic and Activation Function Generator for Neuromorphic Accelerators. Nano Letters, 2020, 20, 1033-1040.	4.5	72
7	Strategies for Highâ€Performance Solidâ€State Tripletâ€"Tripletâ€Annihilationâ€Based Photon Upconversion. Advanced Materials, 2020, 32, e1908175.	11.1	58
8	Investigation of External Quantum Efficiency Roll-Off in OLEDs Using the Mean-Field Steady-State Kinetic Model. Journal of Physical Chemistry C, 2020, 124, 14424-14431.	1.5	2
9	Exploiting chemistry and molecular systems for quantum information science. Nature Reviews Chemistry, 2020, 4, 490-504.	13.8	247
10	Dominance of Exciton Lifetime in the Stability of Phosphorescent Dyes. Advanced Optical Materials, 2019, 7, 1901048.	3.6	23
11	Large Increase in External Quantum Efficiency by Dihedral Angle Tuning in a Skyâ€Blue Thermally Activated Delayed Fluorescence Emitter. Advanced Optical Materials, 2019, 7, 1900476.	3.6	25
12	Sensitization of silicon by singlet exciton fission in tetracene. Nature, 2019, 571, 90-94.	13.7	221
13	Discovery of blue singlet exciton fission molecules via a high-throughput virtual screening and experimental approach. Journal of Chemical Physics, 2019, 151, 121102.	1.2	24
14	A Heterogeneous Kinetics Model for Triplet Exciton Transfer in Solid-State Upconversion. Journal of Physical Chemistry Letters, 2019, 10, 3147-3152.	2.1	24
15	Triplet-Sensitization by Lead Halide Perovskite Thin Films for Near-Infrared-to-Visible Upconversion. ACS Energy Letters, 2019, 4, 888-895.	8.8	117
16	Effect of Magnetostatic Interactions on Stochastic Domain Wall Motion in Sub-100Ânm Wide Nanowires. IEEE Magnetics Letters, 2018, 9, 1-5.	0.6	3
17	Using lead chalcogenide nanocrystals as spin mixers: a perspective on near-infrared-to-visible upconversion. Dalton Transactions, 2018, 47, 8509-8516.	1.6	65
18	Molecular Design of Deep Blue Thermally Activated Delayed Fluorescence Materials Employing a Homoconjugative Triptycene Scaffold and Dihedral Angle Tuning. Chemistry of Materials, 2018, 30, 1462-1466.	3.2	71

#	Article	IF	Citations
19	Solid-state infrared-to-visible upconversion for sub-bandgap sensitization of photovoltaics. , 2018, , .		5
20	3Dâ€Printing: 3Dâ€Printed Autonomous Sensory Composites (Adv. Mater. Technol. 3/2017). Advanced Materials Technologies, 2017, 2, .	3.0	0
21	Interference-enhanced infrared-to-visible upconversion in solid-state thin films sensitized by colloidal nanocrystals. Applied Physics Letters, 2017, 110, .	1.5	39
22	3Dâ€Printed Autonomous Sensory Composites. Advanced Materials Technologies, 2017, 2, 1600257.	3.0	13
23	The Spatial Resolution Limit for an Individual Domain Wall in Magnetic Nanowires. Nano Letters, 2017, 17, 5869-5874.	4.5	14
24	Shorter Exciton Lifetimes via an External Heavyâ€Atom Effect: Alleviating the Effects of Bimolecular Processes in Organic Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1701987.	11.1	90
25	Donor–Acceptor Iptycenes with Thermally Activated Delayed Fluorescence. European Journal of Organic Chemistry, 2017, 2017, 4846-4851.	1.2	13
26	Speed Limit for Triplet-Exciton Transfer in Solid-State PbS Nanocrystal-Sensitized Photon Upconversion. ACS Nano, 2017, 11, 7848-7857.	7.3	130
27	A logic-in-memory design with 3-terminal magnetic tunnel junction function evaluators for convolutional neural networks., 2017,,.		12
28	Designing a Broadband Pump for High-Quality Micro-Lasers via Modified Net Radiation Method. Scientific Reports, 2016, 6, 38576.	1.6	4
29	Link between hopping models and percolation scaling laws for charge transport in mixtures of small molecules. AIP Advances, 2016, 6, .	0.6	8
30	Red Phosphorescence from Benzo[2,1,3]thiadiazoles at Room Temperature. Journal of Organic Chemistry, 2016, 81, 4789-4796.	1.7	43
31	Solid-state infrared-to-visible upconversion sensitized by colloidal nanocrystals. Nature Photonics, 2016, 10, 31-34.	15.6	418
32	A path to practical Solar Pumped Lasers via Radiative Energy Transfer. Scientific Reports, 2015, 5, 14758.	1.6	35
33	Spin-dependent charge transfer state design rules in organic photovoltaics. Nature Communications, 2015, 6, 6415.	5.8	83
34	The Role of Electron–Hole Separation in Thermally Activated Delayed Fluorescence in Donor–Acceptor Blends. Journal of Physical Chemistry C, 2015, 119, 25591-25597.	1.5	45
35	Solid state photon upconversion utilizing thermally activated delayed fluorescence molecules as triplet sensitizer. Applied Physics Letters, 2015, 107, .	1.5	80
36	Thermally Activated Delayed Fluorescence Materials Based on Homoconjugation Effect of Donor–Acceptor Triptycenes. Journal of the American Chemical Society, 2015, 137, 11908-11911.	6.6	331

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37	Polymethyl methacrylate/hydrogen silsesquioxane bilayer resist electron beam lithography process for etching 25 nm wide magnetic wires. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	12
38	Visualization of exciton transport in ordered and disordered molecular solids. Nature Communications, 2014, 5, 3646.	5.8	270
39	Singlet fission efficiency in tetracene-based organic solar cells. Applied Physics Letters, 2014, 104, .	1.5	79
40	A transferable model for singlet-fission kinetics. Nature Chemistry, 2014, 6, 492-497.	6.6	402
41	Nanostructured Singlet Fission Photovoltaics Subject to Tripletâ€Charge Annihilation. Advanced Materials, 2014, 26, 1366-1371.	11.1	51
42	Energy harvesting of non-emissive triplet excitons in tetracene by emissive PbS nanocrystals. Nature Materials, 2014, 13, 1039-1043.	13.3	235
43	Room temperature triplet state spectroscopy of organic semiconductors. Scientific Reports, 2014, 4, 3797.	1.6	180
44	Light-recycling within electronic displays using deep red and near infrared photoluminescent polarizers. Energy and Environmental Science, 2013, 6, 72-75.	15.6	24
45	Singlet Exciton Fission in a Hexacene Derivative. Advanced Materials, 2013, 25, 1445-1448.	11.1	73
46	External Quantum Efficiency Above 100% in a Singlet-Exciton-Fission–Based Organic Photovoltaic Cell. Science, 2013, 340, 334-337.	6.0	783
47	Singlet Exciton Fission Photovoltaics. Accounts of Chemical Research, 2013, 46, 1300-1311.	7.6	271
48	Slow light enhanced singlet exciton fission solar cells with a 126% yield of electrons per photon. Applied Physics Letters, $2013, 103, .$	1.5	72
49	Highly efficient, dual state emission from an organic semiconductor. Applied Physics Letters, 2013, 103,	1.5	76
50	Recent progress in the understanding of exciton dynamics within phosphorescent OLEDs. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2341-2353.	0.8	74
51	Triplet Exciton Dissociation in Singlet Exciton Fission Photovoltaics. Advanced Materials, 2012, 24, 6169-6174.	11.1	108
52	Organic Semiconductors: Dry Lithography of Largeâ€Area, Thinâ€Film Organic Semiconductors Using Frozen CO ₂ Resists (Adv. Mater. 46/2012). Advanced Materials, 2012, 24, 6116-6116.	11.1	0
53	Singlet Exciton Fission in Nanostructured Organic Solar Cells. Nano Letters, 2011, 11, 1495-1498.	4.5	170
54	Luminescent Solar Concentrators Employing Phycobilisomes. Advanced Materials, 2009, 21, 3181-3185.	11.1	66

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55	All graphene electromechanical switch fabricated by chemical vapor deposition. Applied Physics Letters, 2009, 95, 183105.	1.5	145
56	High-Efficiency Organic Solar Concentrators for Photovoltaics. Science, 2008, 321, 226-228.	6.0	632
57	Phosphorescence as a probe of exciton formation and energy transfer in organic light emitting diodes. Physica Status Solidi A, 2004, 201, 1205-1214.	1.7	34
58	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. Applied Physics Letters, 2001, 79, 2082-2084.	1.5	1,029
59	Nearly 100% internal phosphorescence efficiency in an organic light-emitting device. Journal of Applied Physics, 2001, 90, 5048-5051.	1.1	3,189
60	High-efficiency yellow double-doped organic light-emitting devices based on phosphor-sensitized fluorescence. Applied Physics Letters, 2001, 79, 1045-1047.	1.5	199
61	Electroluminescence mechanisms in organic light emitting devices employing a europium chelate doped in a wide energy gap bipolar conducting host. Journal of Applied Physics, 2000, 87, 8049-8055.	1.1	408