Darren Neo

List of Publications by Year
in descending order

17	611	687363 13	940533 16
papers	citations	h-index	g-index

17	17	17	1259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scalable Synthesis of Urchin- and Flowerlike Hierarchical NiO Microspheres and Their Electrochemical Property for Lithium Storage. ACS Applied Materials & Interfaces, 2013, 5, 6292-6299.	8.0	142
2	Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. Chemistry of Materials, 2014, 26, 4004-4013.	6.7	129
3	High Performance PbS Quantum Dot/Graphene Hybrid Solar Cell with Efficient Charge Extraction. ACS Applied Materials & Interfaces, 2016, 8, 13902-13908.	8.0	72
4	Poly(3-hexylthiophene-2,5-diyl) as a Hole Transport Layer for Colloidal Quantum Dot Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 12101-12108.	8.0	40
5	Narrow Band Gap Lead Sulfide Hole Transport Layers for Quantum Dot Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 21417-21422.	8.0	29
6	The passivating effect of cadmium in PbS/CdS colloidal quantum dots probed by nm-scale depth profiling. Nanoscale, 2017, 9, 6056-6067.	5.6	29
7	Mapping micrometer-scale wetting properties of superhydrophobic surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25008-25012.	7.1	29
8	Solution-processable integrated CMOS circuits based on colloidal CuInSe2 quantum dots. Nature Communications, 2020, 11, 5280.	12.8	23
9	Shaping and Tuning Lighting Conditions in Controlled Environment Agriculture: A Review. ACS Agricultural Science and Technology, 2022, 2, 3-16.	2.3	23
10	Transfer Printed Silver Nanowire Transparent Conductors for PbSâ€“ZnO Heterojunction Quantum Dot Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 6417-6421.	8.0	21
11	Silicon Nanoantenna Mix Arrays for a Trifecta of Quantum Emitter Enhancements. Nano Letters, 2021, 21, 4853-4860.	9.1	21
12	CuInS₂ Quantum Dots with Thick ZnSe_xS_{1â€“x} Shells for a Luminescent Solar Concentrator. ACS Applied Nano Materials, 2020, 3, 6489-6496.	5.0	19
13	Influence of Multistep Surface Passivation on the Performance of PbS Colloidal Quantum Dot Solar Cells. Langmuir, 2018, 34, 8887-8897.	3.5	16
14	Subwavelength Plasmonic Color Tuning of Quantum Dot Emission. ACS Photonics, 2019, 6, 93-98.	6.6	9
15	Quantum funneling in blended multi-band gap core/shell colloidal quantum dot solar cells. Applied Physics Letters, 2015, 107, 103902.	3.3	7
16	Surface band bending and carrier dynamics in colloidal quantum dot solids. Nanoscale, 2021, 13, 17793-17806.	5.6	2
17	PbS/CdS Core/Shell Nanocrystals For Solution-Processed Colloidal Quantum Dot Solar Cells. Materials Research Society Symposia Proceedings, 2014, 1748, 7.	0.1	0