

Ryan W Crisp

List of Publications by Year in descending order

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28
papers

1,900
citations

430874

18
h-index

552781

26
g-index

28
all docs

28
docs citations

28
times ranked

3774
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Excitons in Ultrathin PbS Nanoplatelets with Enhanced Near-Infrared Emission. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 680-685.	4.6	20
2	Atomic Layer Deposition of ZnO on InP Quantum Dot Films for Charge Separation, Stabilization, and Solar Cell Formation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901600.	3.7	23
3	Controlling Superstructure-Property Relationships via Critical Casimir Assembly of Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13451-13457.	3.1	18
4	Engineering the Band Alignment in QD Heterojunction Films via Ligand Exchange. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29599-29608.	3.1	8
5	Asymmetric Optical Transitions Determine the Onset of Carrier Multiplication in Lead Chalcogenide Quantum Confined and Bulk Crystals. <i>ACS Nano</i> , 2018, 12, 4796-4802.	14.6	16
6	Quantum Dot Solar Cells: Small Beginnings Have Large Impacts. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1867.	2.5	34
7	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	5.1	40
8	Finding and Fixing Traps in II-VI and III-V Colloidal Quantum Dots: The Importance of Z-Type Ligand Passivation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15712-15723.	13.7	166
9	Enhanced Multiple Exciton Generation in PbS CdS Janus-like Heterostructured Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10084-10094.	14.6	56
10	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018, 10, 11110-11116.	5.6	11
11	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	12.8	48
12	Tandem Solar Cells from Solution-Processed CdTe and PbS Quantum Dots Using a ZnTe/ZnO Tunnel Junction. <i>Nano Letters</i> , 2017, 17, 1020-1027.	9.1	71
13	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. <i>Nature Energy</i> , 2017, 2, .	39.5	172
14	Transparent Ohmic Contacts for Solution-Processed, Ultrathin CdTe Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 270-278.	17.4	32
15	Repairing Nanoparticle Surface Defects. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13795-13799.	13.8	21
16	Repairing Nanoparticle Surface Defects. <i>Angewandte Chemie</i> , 2017, 129, 13983-13987.	2.0	13
17	Photoconductivity of CdTe Nanocrystal-Based Thin Films: Te^{2+} Ligands Lead To Charge Carrier Diffusion Lengths Over $2 \frac{1}{4}$ μ m. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4815-4821.	4.6	19
18	Comparison of Recombination Dynamics in $CH_3NH_3PbBr_3$ and $CH_3NH_3PbI_3$ Perovskite Films: Influence of Exciton Binding Energy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4688-4692.	4.6	350

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19	Preparation of Cd/Pb Chalcogenide Heterostructured Janus Particles via Controllable Cation Exchange. ACS Nano, 2015, 9, 7151-7163.	14.6	97
20	Metal Halide Solid-State Surface Treatment for High Efficiency PbS and PbSe QD Solar Cells. Scientific Reports, 2015, 5, 9945.	3.3	205
21	Synthetic Conditions for High-Accuracy Size Control of PbS Quantum Dots. Journal of Physical Chemistry Letters, 2015, 6, 1830-1833.	4.6	109
22	High Efficiency Solution Processed Sintered CdTe Nanocrystal Solar Cells: The Role of Interfaces. Nano Letters, 2014, 14, 670-675.	9.1	148
23	Nanoscale engineering of solution-processed CdTe solar cells using nanocrystalline precursors. , 2014, , .		1
24	Nanocrystal Grain Growth and Device Architectures for High-Efficiency CdTe Ink-Based Photovoltaics. ACS Nano, 2014, 8, 9063-9072.	14.6	67
25	Role of Dopants in Long-Range Charge Carrier Transport for p-Type and n-Type Graphene Transparent Conducting Thin Films. ACS Nano, 2013, 7, 7251-7261.	14.6	83
26	Coherent Exciton Delocalization in Strongly Coupled Quantum Dot Arrays. Nano Letters, 2013, 13, 4862-4869.	9.1	56
27	Electrical, optical and structural properties of Al-doped ZnO thin films grown on GaAs(111)B substrates by pulsed laser deposition. Thin Solid Films, 2013, 545, 124-129.	1.8	16
28	Colloidal Two-Dimensional PbS Nanosheets and Ultrathin PbS Nanoplatelets High Mobility vs. Photoluminescence Properties. , 0, , .		0