

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	Comparison of Recombination Dynamics in CH ₃ NH ₃ PbBr ₃ and CH ₃ NH ₃ PbI ₃ Perovskite Films: Influence of Exciton Binding Energy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4688-4692.	4.6	350
2	Metal Halide Solid-State Surface Treatment for High Efficiency PbS and PbSe QD Solar Cells. <i>Scientific Reports</i> , 2015, 5, 9945.	3.3	205
3	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. <i>Nature Energy</i> , 2017, 2, .	39.5	172
4	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
5	High Efficiency Solution Processed Sintered CdTe Nanocrystal Solar Cells: The Role of Interfaces. <i>Nano Letters</i> , 2014, 14, 670-675.	9.1	148
6	Synthetic Conditions for High-Accuracy Size Control of PbS Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1830-1833.	4.6	109
7	Preparation of Cd/Pb Chalcogenide Heterostructured Janus Particles <i>via</i> Controllable Cation Exchange. <i>ACS Nano</i> , 2015, 9, 7151-7163.	14.6	97
8	Role of Dopants in Long-Range Charge Carrier Transport for p-Type and n-Type Graphene Transparent Conducting Thin Films. <i>ACS Nano</i> , 2013, 7, 7251-7261.	14.6	83
9	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
10	Nanocrystal Grain Growth and Device Architectures for High-Efficiency CdTe Ink-Based Photovoltaics. <i>ACS Nano</i> , 2014, 8, 9063-9072.	14.6	67
11	Coherent Exciton Delocalization in Strongly Coupled Quantum Dot Arrays. <i>Nano Letters</i> , 2013, 13, 4862-4869.	9.1	56
12	Enhanced Multiple Exciton Generation in PbS CdS Janus-like Heterostructured Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10084-10094.	14.6	56
13	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	12.8	48
14	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	5.1	40
15	Quantum Dot Solar Cells: Small Beginnings Have Large Impacts. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1867.	2.5	34
16	Transparent Ohmic Contacts for Solution-Processed, Ultrathin CdTe Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 270-278.	17.4	32
17	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
18	Repairing Nanoparticle Surface Defects. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13795-13799.	13.8	21

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19	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
20	Photoconductivity of CdTe Nanocrystal-Based Thin Films: Te^{2-} Ligands Lead To Charge Carrier Diffusion Lengths Over $2\frac{1}{4}\mu\text{m}$. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4815-4821.	4.6	19
21	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
22	Electrical, optical and structural properties of Al-doped ZnO thin films grown on GaAs(111)B substrates by pulsed laser deposition. <i>Thin Solid Films</i> , 2013, 545, 124-129.	1.8	16
23	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
24	Repairing Nanoparticle Surface Defects. <i>Angewandte Chemie</i> , 2017, 129, 13983-13987.	2.0	13
25	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018, 10, 11110-11116.	5.6	11
26	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
27	Nanoscale engineering of solution-processed CdTe solar cells using nanocrystalline precursors. , 2014, , .		1
28	Colloidal Two-Dimensional PbS Nanosheets and Ultrathin PbS Nanoplatelets - High Mobility vs. Photoluminescence Properties. , 0, , .		0