

William A Tisdale

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

4,948
citations

34
h-index

70
g-index

91
ext. papers

5,987
ext. citations

10.5
avg, IF

6.23
L-index

#	Paper	IF	Citations
82	Hot-electron transfer from semiconductor nanocrystals. <i>Science</i> , 2010 , 328, 1543-7	33.3	703
81	Highly Tunable Colloidal Perovskite Nanoplatelets through Variable Cation, Metal, and Halide Composition. <i>ACS Nano</i> , 2016 , 10, 7830-9	16.7	368
80	Colloidal Organohalide Perovskite Nanoplatelets Exhibiting Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1911-6	6.4	301
79	Monodisperse, air-stable PbS nanocrystals via precursor stoichiometry control. <i>ACS Nano</i> , 2014 , 8, 6363-7	16.7	228
78	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
77	Visualization of exciton transport in ordered and disordered molecular solids. <i>Nature Communications</i> , 2014 , 5, 3646	17.4	204
76	Colloidal Halide Perovskite Nanoplatelets: An Exciting New Class of Semiconductor Nanomaterials. <i>Chemistry of Materials</i> , 2017 , 29, 5019-5030	9.6	187
75	Kinetics of the self-assembly of nanocrystal superlattices measured by real-time in situ X-ray scattering. <i>Nature Materials</i> , 2016 , 15, 775-81	27	184
74	Reduced dielectric screening and enhanced energy transfer in single- and few-layer MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 6087-91	11.5	147
73	Coulomb barrier for charge separation at an organic semiconductor interface. <i>Physical Review Letters</i> , 2008 , 101, 196403	7.4	142
72	Origin of efficiency roll-off in colloidal quantum-dot light-emitting diodes. <i>Physical Review Letters</i> , 2013 , 110, 217403	7.4	124
71	Subdiffusive exciton transport in quantum dot solids. <i>Nano Letters</i> , 2014 , 14, 3556-62	11.5	113
70	Tunable Light-Emitting Diodes Utilizing Quantum-Confined Layered Perovskite Emitters. <i>ACS Photonics</i> , 2017 , 4, 476-481	6.3	106
69	Strong electronic coupling in two-dimensional assemblies of colloidal PbSe quantum dots. <i>ACS Nano</i> , 2009 , 3, 1532-8	16.7	104
68	CdSe Nanoplatelet Films with Controlled Orientation of their Transition Dipole Moment. <i>Nano Letters</i> , 2017 , 17, 3837-3843	11.5	103
67	Excitons in 2D Organic-Inorganic Halide Perovskites. <i>Trends in Chemistry</i> , 2019 , 1, 380-393	14.8	93
66	Interparticle Spacing and Structural Ordering in Superlattice PbS Nanocrystal Solids Undergoing Ligand Exchange. <i>Chemistry of Materials</i> , 2015 , 27, 474-482	9.6	84

65	Artificial atoms on semiconductor surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 965-70	11.5	82
64	Highly efficient, dual state emission from an organic semiconductor. <i>Applied Physics Letters</i> , 2013 , 103, 093302	3.4	67
63	A Nanobionic Light-Emitting Plant. <i>Nano Letters</i> , 2017 , 17, 7951-7961	11.5	66
62	Impact of Size Dispersity, Ligand Coverage, and Ligand Length on the Structure of PbS Nanocrystal Superlattices. <i>Chemistry of Materials</i> , 2018 , 30, 807-816	9.6	62
61	Charge Carrier Hopping Dynamics in Homogeneously Broadened PbS Quantum Dot Solids. <i>Nano Letters</i> , 2017 , 17, 893-901	11.5	60
60	Determination of Exciton Diffusion Length by Transient Photoluminescence Quenching and Its Application to Quantum Dot Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9005-9015	3.8	60
59	Synthetic Lateral Metal-Semiconductor Heterostructures of Transition Metal Disulfides. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12354-12358	16.4	60
58	Efficient Nanosecond Photoluminescence from Infrared PbS Quantum Dots Coupled to Plasmonic Nanoantennas. <i>ACS Photonics</i> , 2016 , 3, 1741-1746	6.3	57
57	Unconventional ferroelectricity in moiré heterostructures. <i>Nature</i> , 2020 , 588, 71-76	50.4	56
56	Multi-cation perovskites prevent carrier reflection from grain surfaces. <i>Nature Materials</i> , 2020 , 19, 412-418	18	52
55	Synthetic Variation and Structural Trends in Layered Two-Dimensional Alkylammonium Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2019 , 31, 5592-5607	9.6	52
54	Magnitude of the Förster Radius in Colloidal Quantum Dot Solids. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13920-13928	3.8	50
53	Tunable exciton binding energy in 2D hybrid layered perovskites through donor-acceptor interactions within the organic layer. <i>Nature Chemistry</i> , 2020 , 12, 672-682	17.6	46
52	Spatially Resolved Photogenerated Exciton and Charge Transport in Emerging Semiconductors. <i>Annual Review of Physical Chemistry</i> , 2020 , 71, 1-30	15.7	44
51	Exciton trapping is responsible for the long apparent lifetime in acid-treated MoS ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	43
50	Toward Stable Deep-Blue Luminescent Colloidal Lead Halide Perovskite Nanoplatelets: Systematic Photostability Investigation. <i>Chemistry of Materials</i> , 2019 , 31, 2486-2496	9.6	35
49	Optimal Bandgap in a 2D Ruddlesden-Popper Perovskite Chalcogenide for Single-Junction Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 4882-4886	9.6	35
48	Epitaxial Dimers and Auger-Assisted Detrapping in PbS Quantum Dot Solids. <i>Matter</i> , 2019 , 1, 250-265	12.7	34

47	Electron Dynamics at the ZnO (101 0) Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14682-14692	3.8	34
46	Substrate-Dependent Exciton Diffusion and Annihilation in Chemically Treated MoS ₂ and WS ₂ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12175-12184	3.8	31
45	Size-Dependent Biexciton Spectrum in CsPbBr ₃ Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 2639-2645	20.1	30
44	Two Origins of Broadband Emission in Multilayered 2D Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8565-8572	6.4	29
43	Inverse Temperature Dependence of Charge Carrier Hopping in Quantum Dot Solids. <i>ACS Nano</i> , 2018 , 12, 7741-7749	16.7	27
42	Twenty-fold enhancement of molecular fluorescence by coupling to a J-aggregate critically coupled resonator. <i>ACS Nano</i> , 2012 , 6, 467-71	16.7	26
41	Inorganic Cage Motion Dominates Excited-State Dynamics in 2D-Layered Perovskites (C _x H _{2x+1} NH ₃) ₂ PbI ₄ (x = 4 θ). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27904-27916	3.8	24
40	Quantification of a PbCl _x Shell on the Surface of PbS Nanocrystals 2019 , 1, 209-216		23
39	Modulation of Low-Frequency Acoustic Vibrations in Semiconductor Nanocrystals through Choice of Surface Ligand. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4213-4216	6.4	20
38	Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5680-5686	6.4	19
37	Ultrafast Charge Transfer at a Quantum Dot/2D Materials Interface Probed by Second Harmonic Generation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4227-4232	6.4	18
36	Transition from Thermodynamic to Kinetic-Limited Excitonic Energy Migration in Colloidal Quantum Dot Solids. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7894-7900	3.8	18
35	Can Disorder Enhance Incoherent Exciton Diffusion?. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9501-9	3.4	17
34	Tuning the Excitonic Properties of the 2D (PEA)(MA)PbI Perovskite Family via Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1638-1643	6.4	17
33	Characterization of colloidal nanocrystal surface structure using small angle neutron scattering and efficient Bayesian parameter estimation. <i>Journal of Chemical Physics</i> , 2019 , 150, 244702	3.9	16
32	Melting Transitions of the Organic Subphase in Layered Two-Dimensional Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2924-2930	6.4	15
31	Enhancement of second-order nonlinear-optical signals by optical stimulation. <i>Physical Review Letters</i> , 2015 , 114, 183902	7.4	14
30	The Importance of Unbound Ligand in Nanocrystal Superlattice Formation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9675-9685	16.4	14

29	Phase-Modulated Degenerate Parametric Amplification Microscopy. <i>Nano Letters</i> , 2018 , 18, 5001-5006	11.5	13
28	Including surface ligand effects in continuum elastic models of nanocrystal vibrations. <i>Journal of Chemical Physics</i> , 2017 , 147, 044711	3.9	13
27	Near-Infrared Photoluminescence and Thermal Stability of PbS Nanocrystals at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20341-20349	3.8	13
26	Temperature dependence of acoustic vibrations of CdSe and CdSe-CdS core-shell nanocrystals measured by low-frequency Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28797-28801	3.6	13
25	Constructing Multifunctional Virus-Templated Nanoporous Composites for Thin Film Solar Cells: Contributions of Morphology and Optics to Photocurrent Generation. <i>Journal of Physical Chemistry C</i> , 2015 , 150610114441003	3.8	11
24	Direct Observation of Symmetry-Dependent Electron-Phonon Coupling in Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18994-19001	16.4	10
23	Spatially resolved energy transfer in patterned colloidal quantum dot heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3111-4	9.5	10
22	Low-frequency Raman spectrum of 2D layered perovskites: Local atomistic motion or superlattice modes?. <i>Journal of Chemical Physics</i> , 2020 , 153, 044710	3.9	10
21	Obtaining Structural Parameters from STEM-EDX Maps of Core/Shell Nanocrystals for Optoelectronics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 989-996	5.6	9
20	Perspective: Nonequilibrium dynamics of localized and delocalized excitons in colloidal quantum dot solids. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 068501	2.9	9
19	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. <i>Nature Electronics</i> , 2022 , 5, 28-36	28.4	7
18	High repetition-rate femtosecond stimulated Raman spectroscopy with fast acquisition. <i>Optics Express</i> , 2018 , 26, 18331-18340	3.3	6
17	Power-Dependent Photoluminescence Efficiency in Manganese-Doped 2D Hybrid Perovskite Nanoplatelets. <i>ACS Nano</i> , 2021 ,	16.7	6
16	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4463-4469	6.4	6
15	Markov Chain Monte Carlo Sampling for Target Analysis of Transient Absorption Spectra. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3893-3902	2.8	5
14	Reversible Temperature-Induced Structural Transformations in PbS Nanocrystal Superlattices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13456-13466	3.8	5
13	Size and Quality Enhancement of 2D Semiconducting Metal-Organic Chalcogenolates by Amine Addition. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20256-20263	16.4	5
12	A time-domain view of charge carriers in semiconductor nanocrystal solids. <i>Chemical Science</i> , 2020 , 11, 5157-5167	9.4	4

11	Morphological Control of 2D Hybrid Organic-Inorganic Semiconductor AgSePh.. <i>ACS Nano</i> , 2022 ,	16.7	4
10	Colloidal nano-MOFs nucleate and stabilize ultra-small quantum dots of lead bromide perovskites. <i>Chemical Science</i> , 2021 , 12, 6129-6135	9.4	4
9	Facile Synthesis of Colloidal Lead Halide Perovskite Nanoplatelets via Ligand-Assisted Reprecipitation. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
8	Temperature-Independent Dielectric Constant in CsPbBr Nanocrystals Revealed by Linear Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8088-8095	6.4	3
7	Goodman and Tisdale Reply. <i>Physical Review Letters</i> , 2016 , 116, 059402	7.4	2
6	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. <i>Nano Letters</i> , 2021 , 21, 4809-4815	11.5	2
5	Revealing the Brüsted-Evans-Polanyi relation in halide-activated fast MoS growth toward millimeter-sized 2D crystals. <i>Science Advances</i> , 2021 , 7, eabj3274	14.3	1
4	Optimal loading for injection. <i>AICHE Journal</i> , 2020 , 66, e17102	3.6	1
3	Repulsive, Densely Packed Ligand-Shells Mediate Interactions between PbS Nanocrystals in Solution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8014-8020	3.8	1
2	Super-resolved second harmonic generation imaging by coherent image scanning microscopy. <i>Applied Physics Letters</i> , 2022 , 120, 071111	3.4	1
1	Busting through quantum dot barriers.. <i>Nature Materials</i> , 2022 , 21, 497-499	27	0