

Daniel M Balazs

List of Publications by Year in descending order

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25
papers

880
citations

567144

15
h-index

610775

24
g-index

25
all docs

25
docs citations

25
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet printing of epitaxially connected nanocrystal superlattices. Nano Research, 2022, 15, 4536-4543.	5.8	5
2	Fullerene derivatives with oligoethylene glycol side chains: an investigation on the origin of their outstanding transport properties. Journal of Materials Chemistry C, 2021, 9, 16217-16225.	2.7	10
3	Mapping Defect Relaxation in Quantum Dot Solids upon <i>In Situ</i> Heating. ACS Nano, 2021, 15, 719-726.	7.3	12
4	News in Nanocrystals Seminar: Self-Assembly of Early Career Researchers toward Globally Accessible Nanoscience. ACS Nano, 2021, 15, 10743-10747.	7.3	0
5	Fundamental Processes and Practical Considerations of Lead Chalcogenide Mesocrystals Formed via Self-Assembly and Directed Attachment of Nanocrystals at a Fluid Interface. Chemistry of Materials, 2021, 33, 9457-9472.	3.2	6
6	Photoinitiated Transformation of Nanocrystal Superlattice Polymorphs Assembled at a Fluid Interface. Advanced Materials Interfaces, 2020, 7, 2001064.	1.9	3
7	The Role of Dimer Formation in the Nucleation of Superlattice Transformations and Its Impact on Disorder. ACS Nano, 2020, 14, 11431-11441.	7.3	9
8	Coupled Dynamics of Colloidal Nanoparticle Spreading and Self-Assembly at a Fluid-Fluid Interface. Langmuir, 2020, 36, 6106-6115.	1.6	19
9	Mechanistic Insights into Superlattice Transformation at a Single Nanocrystal Level Using Nanobeam Electron Diffraction. Nano Letters, 2020, 20, 5267-5274.	4.5	20
10	Quantifying Atomic-Scale Quantum Dot Superlattice Behavior Upon <i>in situ</i> Heating. Microscopy and Microanalysis, 2019, 25, 1538-1539.	0.2	1
11	Controlling Superstructure-Property Relationships via Critical Casimir Assembly of Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 13451-13457.	1.5	18
12	PbSe Nanorod Field-Effect Transistors: Room- and Low-Temperature Performance. Advanced Electronic Materials, 2018, 4, 1700580.	2.6	13
13	Colloidal Quantum Dot Inks for Single-Step-Fabricated Field-Effect Transistors: The Importance of Postdeposition Ligand Removal. ACS Applied Materials & Interfaces, 2018, 10, 5626-5632.	4.0	39
14	Comparing Halide Ligands in PbS Colloidal Quantum Dots for Field-Effect Transistors and Solar Cells. ACS Applied Nano Materials, 2018, 1, 6882-6889.	2.4	60
15	Electron Mobility of $24 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ in PbSe Colloidal-Quantum-Dot Superlattices. Advanced Materials, 2018, 30, e1802265.	11.1	40
16	Lead-Chalcogenide Colloidal-Quantum-Dot Solids: Novel Assembly Methods, Electronic Structure Control, and Application Prospects. Advanced Materials, 2018, 30, 1800082.	11.1	45
17	Exciton Recombination in Formamidinium Lead Triiodide: Nanocrystals versus Thin Films. Small, 2017, 13, 1700673.	5.2	62
18	Increased efficiency in pn-junction PbS QD solar cells via NaHS treatment of the p-type layer. Applied Physics Letters, 2017, 110, .	1.5	26

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19	Stoichiometric control of the density of states in PbS colloidal quantum dot solids. <i>Science Advances</i> , 2017, 3, eaao1558.	4.7	62
20	Free carrier generation and recombination in PbS quantum dot solar cells. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	16
21	Temperature dependent behaviour of lead sulfide quantum dot solar cells and films. <i>Energy and Environmental Science</i> , 2016, 9, 2916-2924.	15.6	119
22	Temperature-Dependent Optical Properties of PbS/CdS Core/Shell Quantum Dot Thin Films: Probing the Wave Function Delocalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17480-17486.	1.5	18
23	Counterion-Mediated Ligand Exchange for PbS Colloidal Quantum Dot Superlattices. <i>ACS Nano</i> , 2015, 9, 11951-11959.	7.3	121
24	Origin of the increased open circuit voltage in PbS/CdS core-shell quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1450-1457.	5.2	91
25	Reducing charge trapping in PbS colloidal quantum dot solids. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	65