

# Ryan A Decrescent

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

567  
citations

758635

12  
h-index

839053

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. <i>Journal of the American Chemical Society</i> , 2019, 141, 19099-19109.	6.6	144
2	Beam engineering for selective and enhanced coupling to multipolar resonances. <i>Physical Review B</i> , 2015, 92, .	1.1	64
3	Unidirectional luminescence from InGaN/GaN quantum-well metasurfaces. <i>Nature Photonics</i> , 2020, 14, 543-548.	15.6	64
4	Controlling Solvate Intermediate Growth for Phase-Pure Organic Lead Iodide Ruddlesden-Popper (C <sub>4</sub> H <sub>9</sub> NH <sub>3</sub> ) <sub>2</sub> (CH <sub>3</sub> NH <sub>3</sub> ) <sub>1</sub> Pb <sub>2</sub> Perovskite Thin Films. <i>Chemistry of Materials</i> , 2019, 31, 5832-5844.	3.2	1
5	Uniform Thermo-Optic Tunability of Dielectric Metalenses. <i>Physical Review Applied</i> , 2018, 10, .	1.5	34
6	Phase Stability and Diffusion in Lateral Heterostructures of Methyl Ammonium Lead Halide Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25313-25321.	4.0	32
7	Light-emitting metalenses and meta-axicons for focusing and beaming of spontaneous emission. <i>Nature Communications</i> , 2021, 12, 3591.	5.8	31
8	Phase Intergrowth and Structural Defects in Organic Metal Halide Ruddlesden-Popper Thin Films. <i>Chemistry of Materials</i> , 2018, 30, 8615-8623.	3.2	29
9	Optical Constants and Effective-Medium Origins of Large Optical Anisotropies in Layered Hybrid Organic/Inorganic Perovskites. <i>ACS Nano</i> , 2019, 13, 10745-10753.	7.3	24
10	Bright magnetic dipole radiation from two-dimensional lead-halide perovskites. <i>Science Advances</i> , 2020, 6, eaay4900.	4.7	24
11	Even-Parity Self-Trapped Excitons Lead to Magnetic Dipole Radiation in Two-Dimensional Lead Halide Perovskites. <i>ACS Nano</i> , 2020, 14, 8958-8968.	7.3	23
12	Ferroelastic Hysteresis in Thin Films of Methylammonium Lead Iodide. <i>Chemistry of Materials</i> , 2021, 33, 298-309.	3.2	15
13	Model-blind characterization of thin-film optical constants with momentum-resolved reflectometry. <i>Optics Express</i> , 2016, 24, 28842.	1.7	13
14	Growth-Controlled Broad Emission in Phase-Pure Two-Dimensional Hybrid Perovskite Films. <i>Chemistry of Materials</i> , 2021, 33, 7290-7300.	3.2	13
15	Enhancing Organic Semiconductor Surface Plasmon Polariton Coupling with Molecular Orientation. <i>Nano Letters</i> , 2017, 17, 6151-6156.	4.5	11
16	Designing Highly Directional Luminescent Phased-Array Metasurfaces with Reciprocity-Based Simulations. <i>ACS Omega</i> , 2022, 7, 22477-22483.	1.6	3
17	Optical-Frequency Magnetic Polarizability in a Layered Semiconductor. <i>Physical Review Letters</i> , 2021, 127, 173604.	2.9	2
18	Enhancing and Extinguishing the Different Emission Features of 2D (EA <sub>1</sub> ) <sub>x</sub> FA <sub>x</sub> (C <sub>4</sub> H <sub>9</sub> NH <sub>3</sub> ) <sub>10</sub> Pb <sub>3</sub> Br <sub>10</sub> Perovskite Films. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	2

#	ARTICLE	IF	CITATIONS
19	What happens when we bend MAPbI <sub>3</sub> films? Insights on sub-grain structures and stability. , 0, , .		0