

Luisa Whittaker-Brooks

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Strong Rashba-Dresselhaus Effect in Nonchiral 2D Ruddlesden-Popper Perovskites. <i>Advanced Optical Materials</i> , 2022, 10, 2101232.	7.3	14
2	Rashba splitting in organic-inorganic lead halide perovskites revealed through two-photon absorption spectroscopy. <i>Nature Communications</i> , 2022, 13, 483.	12.8	31
3	Multi-dimensional designer catalysts for negative emissions science (NES): bridging the gap between synthesis, simulations, and analysis. <i>IScience</i> , 2022, 25, 103700.	4.1	3
4	Franz-Keldysh and Stark Effects in Two-Dimensional Metal Halide Perovskites. , 2022, 1, .		9
5	Photoactivation Properties of Self-n-Doped Perylene Diimides: Concentration-dependent Radical Anion and Dianion Formation. <i>ACS Materials Au</i> , 2022, 2, 482-488.	6.0	3
6	A Li-Eye View of Diffusion Pathways in a 2D Intercalation Material from Topochemical Single-Crystal Transformation. <i>ACS Energy Letters</i> , 2022, 7, 1960-1962.	17.4	4
7	Concepts and principles of self-n-doping in perylene diimide chromophores for applications in biochemistry, energy harvesting, energy storage, and catalysis. <i>Materials Horizons</i> , 2022, 9, 2026-2052.	12.2	8
8	Semiconducting to Metallic Electronic Landscapes in Defects-Controlled 2D d Conjugated Coordination Polymer Thin Films. <i>Advanced Functional Materials</i> , 2021, 31, 2006920.	14.9	19
9	Charge transfer states and carrier generation in 1D organolead iodide semiconductors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14977-14990.	10.3	15
10	Steric hindrance dependence on the spin and morphology properties of highly oriented self-doped organic small molecule thin films. <i>Materials Advances</i> , 2021, 2, 356-365.	5.4	8
11	A Multi-Dimensional Perspective on Electronic Doping in Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2021, 6, 1104-1123.	17.4	38
12	Promoting Bandlike Transport in Well-Defined and Highly Conducting Polymer Thin Films upon Controlling Dopant Oxidation Levels and Polaron Effects. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2938-2949.	4.4	5
13	N-type doping of low-pressure chemical vapor deposition grown In^{2+} -Ga $_{2}$ O $_{3}$ thin films using solid-source germanium. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	14
14	Resolving buried optoelectronic features in metal halide perovskites via modulation spectroscopy studies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23746-23764.	10.3	6
15	Interplay between Morphology and Electronic Structure in Emergent Organic and d Conjugated Organometal Thin Film Materials. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15365-15379.	3.7	2
16	Traversing Excitonic and Ionic Landscapes: Reduced-Dimensionality-Inspired Design of Organometal Halide Semiconductors for Energy Applications. <i>Accounts of Chemical Research</i> , 2021, 54, 4371-4382.	15.6	7
17	Low temperature homoepitaxy of (010) In^{2+} -Ga $_{2}$ O $_{3}$ by metalorganic vapor phase epitaxy: Expanding the growth window. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	56
18	Voltage bias stress effects in metal halide perovskites are strongly dependent on morphology and ion migration pathways. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25109-25119.	10.3	11

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19	Quantifying Exciton Heterogeneities in Mixed-Phase Organometal Halide Multiple Quantum Wells via Stark Spectroscopy Studies. ACS Applied Materials & Interfaces, 2020, 12, 52538-52548.	8.0	7
20	Origin of Rashba Spin-Orbit Coupling in 2D and 3D Lead Iodide Perovskites. Scientific Reports, 2020, 10, 4964.	3.3	23
21	Decreasing the Ion Diffusion Pathways for the Intercalation of Multivalent Cations into One-Dimensional TiS_2 Nanobelt Arrays. ACS Applied Materials & Interfaces, 2020, 12, 21788-21798.	8.0	14
22	Quantifying multiple crystallite orientations and crystal heterogeneities in complex thin film materials. CrystEngComm, 2019, 21, 5707-5720.	2.6	17
23	Understanding Hydrogen Bonding Interactions in Crosslinked Methylammonium Lead Iodide Crystals: Towards Reducing Moisture and Light Degradation Pathways. Angewandte Chemie, 2019, 131, 14050-14059.	2.0	5
24	Understanding Hydrogen Bonding Interactions in Crosslinked Methylammonium Lead Iodide Crystals: Towards Reducing Moisture and Light Degradation Pathways. Angewandte Chemie - International Edition, 2019, 58, 13912-13921.	13.8	43
25	WWMOD? What would metal oxides do?: Redefining their applicability in today's energy technologies. Polyhedron, 2019, 170, 334-358.	2.2	8
26	Self-assembled propylammonium cations at grain boundaries and the film surface to improve the efficiency and stability of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 23739-23746.	10.3	41
27	Investigating the Optical and Electrical Properties of Two-dimensional Organic-inorganic Hybrid Perovskite Multiple Quantum Wells via Electroabsorption Spectroscopy Studies. , 2019, ,		0
28	Morphology and Optoelectronic Variations Underlying the Nature of the Electron Transport Layer in Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 602-615.	5.1	25
29	Controlling Sulfur Vacancies in TiS_2 Cathode Insertion Hosts via the Conversion of TiS_3 Nanobelts for Energy-Storage Applications. ACS Applied Nano Materials, 2018, 1, 851-859.	5.0	37
30	Gate-tunable transport characteristics of Bi_2S_3 nanowire transistors. Solid State Communications, 2018, 270, 135-139.	1.9	4
31	Vertically oriented TiS_2 nanobelt arrays as binder- and carbon-free intercalation electrodes for Li- and Na-based energy storage devices. Journal of Materials Chemistry A, 2018, 6, 21949-21960.	10.3	22
32	Catalytic growth of vertically aligned SnS/SnS_2 heterojunctions. Materials Research Express, 2017, 4, 094002.	1.6	23
33	Electroabsorption Spectroscopy Studies of $(\text{C}_4\text{H}_9\text{NH}_3)_2\text{Pb}_4$ Organic-Inorganic Hybrid Perovskite Multiple Quantum Wells. Journal of Physical Chemistry Letters, 2017, 8, 4557-4564.	4.6	48
34	Distinctive Extrinsic Atom Effects on the Structural, Optical, and Electronic Properties of $\text{Bi}_2\text{S}_3\text{-xSe}_x$ Solid Solutions. Chemistry of Materials, 2016, 28, 6544-6552.	6.7	36
35	Coulomb Screening and Coherent Phonon in Methylammonium Lead Iodide Perovskites. Journal of Physical Chemistry Letters, 2016, 7, 3284-3289.	4.6	30
36	Enhanced sensing in mixed porous solid photonic stacks. Journal of Materials Chemistry C, 2016, 4, 668-672.	5.5	5

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37	Bi ₂ S ₃ nanowire networks as electron acceptor layers in solution-processed hybrid solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2686-2692.	5.5	53
38	Exciton and Free Charge Dynamics of Methylammonium Lead Iodide Perovskites Are Different in the Tetragonal and Orthorhombic Phases. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19590-19595.	3.1	65
39	Solar Cells: Donor-Acceptor Interfacial Interactions Dominate Device Performance in Hybrid P3HT-ZnO Nanowire-Array Solar Cells (<i>Adv. Energy Mater.</i> 16/2014). <i>Advanced Energy Materials</i> , 2014, 4, .	19.5	1
40	Face-on stacking and enhanced out-of-plane hole mobility in graphene-templated copper phthalocyanine. <i>Chemical Communications</i> , 2014, 50, 5319-5321.	4.1	56
41	Structure-Property Relationship Study of Substitution Effects on Isoindigo-Based Model Compounds as Electron Donors in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14533-14542.	8.0	29
42	Donor-Acceptor Interfacial Interactions Dominate Device Performance in Hybrid P3HT-ZnO Nanowire-Array Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400585.	19.5	36
43	Sputtered ZnO seed layer enhances photovoltaic behavior in hybrid ZnO/P3HT solar cells. <i>Organic Electronics</i> , 2013, 14, 3477-3483.	2.6	22