

# Lucas R Parent

## List of Publications by Year in descending order

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32  
papers

2,703  
citations

331670

21  
h-index

477307

29  
g-index

32  
all docs

32  
docs citations

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times ranked

4391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and computational investigations on the SO <sub>2</sub> poisoning of (La <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>0.95</sub> MnO <sub>3</sub> cathode materials. , 2023, 2, 100062.		4
2	Matrix controlled structural phase transformations in embedded metallic nanoparticles. Scripta Materialia, 2022, 213, 114632.	5.2	1
3	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. Nature Materials, 2021, 20, 222-228.	27.5	239
4	100th Anniversary of Macromolecular Science Viewpoint: Polymeric Materials by <i>In Situ</i> Liquid-Phase Transmission Electron Microscopy. ACS Macro Letters, 2021, 10, 14-38.	4.8	25
5	Enhancing and Mitigating Radiolytic Damage to Soft Matter in Aqueous Phase Liquid-Cell Transmission Electron Microscopy in the Presence of Gold Nanoparticle Sensitizers or Isopropanol Scavengers. Nano Letters, 2021, 21, 1141-1149.	9.1	33
6	Thermoresponsive polymer assemblies via variable temperature liquid-phase transmission electron microscopy and small angle X-ray scattering. Nature Communications, 2021, 12, 6568.	12.8	19
7	Chemical and physical transformations of carbon-based nanomaterials observed by liquid phase transmission electron microscopy. MRS Bulletin, 2020, 45, 727-737.	3.5	8
8	Complex Nanoparticle Diffusional Motion in Liquid-Cell Transmission Electron Microscopy. Journal of Physical Chemistry C, 2020, 124, 14881-14890.	3.1	18
9	Hierarchical Spidroin Micellar Nanoparticles as the Precursors of Spider Silks. Microscopy and Microanalysis, 2019, 25, 1346-1347.	0.4	0
10	Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 19728-19735.	13.7	79
11	Single Crystals of Electrically Conductive Two-Dimensional Metal-Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964.	11.3	211
12	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metal-Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 1348-1357.	13.7	51
13	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11.	15.6	78
14	Gas Absorption and Pore Breathing of Metal-Organic Frameworks Studied Using in situ Environmental Transmission Electron Microscopy (ETEM). Microscopy and Microanalysis, 2018, 24, 1880-1881.	0.4	1
15	Hierarchical spidroin micellar nanoparticles as the fundamental precursors of spider silks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11507-11512.	7.1	46
16	Seeded growth of single-crystal two-dimensional covalent organic frameworks. Science, 2018, 361, 52-57.	12.6	474
17	Analytical STEM Investigation of the Post-Synthetic Modification (PMS) of Metal-Organic Frameworks (MOFs): Metal- and Ligand-Exchange in UiO-66. Microscopy and Microanalysis, 2018, 24, 1970-1971.	0.4	3
18	Colloidal Covalent Organic Frameworks. ACS Central Science, 2017, 3, 58-65.	11.3	216

#	ARTICLE	IF	CITATIONS
19	Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. <i>Chemistry of Materials</i> , 2017, 29, 8195-8201.	6.7	80
20	Pore Breathing of Metal-Organic Frameworks by Environmental Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 13973-13976.	13.7	56
21	Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 17140-17151.	13.7	118
22	Picoliter Drop-On-Demand Dispensing for Multiplex Liquid Cell Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 507-514.	0.4	12
23	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , 2016, 10, 10186-10194.	14.6	127
24	Gaining Control over Radiolytic Synthesis of Uniform Sub-3-nanometer Palladium Nanoparticles: Use of Aromatic Liquids in the Electron Microscope. <i>Langmuir</i> , 2016, 32, 1468-1477.	3.5	47
25	Interface Promoted Reversible Mg Insertion in Nanostructured Tin-Antimony Alloys. <i>Advanced Materials</i> , 2015, 27, 6598-6605.	21.0	88
26	Controlled Radiolytic Synthesis in the Fluid Stage. Towards Understanding the Effect of the Electron Beam in Liquids. <i>Microscopy and Microanalysis</i> , 2015, 21, 2125-2126.	0.4	0
27	Realizing the Full Potential of Insertion Anodes for Mg-Ion Batteries Through the Nanostructuring of Sn. <i>Nano Letters</i> , 2015, 15, 1177-1182.	9.1	87
28	In Situ Observation of Directed Nanoparticle Aggregation During the Synthesis of Ordered Nanoporous Metal in Soft Templates. <i>Chemistry of Materials</i> , 2014, 26, 1426-1433.	6.7	14
29	Facile Synthesis of Chevrel Phase Nanocubes and Their Applications for Multivalent Energy Storage. <i>Chemistry of Materials</i> , 2014, 26, 4904-4907.	6.7	73
30	Probing the Degradation Mechanisms in Electrolyte Solutions for Li-Ion Batteries by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2014, 14, 1293-1299.	9.1	137
31	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. <i>Nano Letters</i> , 2013, 13, 6106-6112.	9.1	265
32	Direct in Situ Observation of Nanoparticle Synthesis in a Liquid Crystal Surfactant Template. <i>ACS Nano</i> , 2012, 6, 3589-3596.	14.6	93