# Lucas R Parent

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5250003/publications.pdf

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|---|---|---|---|
| 32 papers | 2,703 citations | 331670 21 h-index | 477307 29 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 4391 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Seeded growth of single-crystal two-dimensional covalent organic frameworks. Science, 2018, 361, 52-57. | 12.6 | 474 |
| 2 | Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. Nano Letters, 2013, 13, 6106-6112. | 9.1 | 265 |
| 3 | Atomically precise single-crystal structures of electrically conducting 2D metalâ€“organic frameworks. Nature Materials, 2021, 20, 222-228. | 27.5 | 239 |
| 4 | Colloidal Covalent Organic Frameworks. ACS Central Science, 2017, 3, 58-65. | 11.3 | 216 |
| 5 | Single Crystals of Electrically Conductive Two-Dimensional Metalâ€“Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964. | 11.3 | 211 |
| 6 | Probing the Degradation Mechanisms in Electrolyte Solutions for Li-Ion Batteries by in Situ Transmission Electron Microscopy. Nano Letters, 2014, 14, 1293-1299. | 9.1 | 137 |
| 7 | Structure and Function of Iron-Loaded Synthetic Melanin. ACS Nano, 2016, 10, 10186-10194. | 14.6 | 127 |
| 8 | Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 17140-17151. | 13.7 | 118 |
| 9 | Direct in Situ Observation of Nanoparticle Synthesis in a Liquid Crystal Surfactant Template. ACS Nano, 2012, 6, 3589-3596. | 14.6 | 93 |
| 10 | Interface Promoted Reversible Mg Insertion in Nanostructured Tinâ€“Antimony Alloys. Advanced Materials, 2015, 27, 6598-6605. | 21.0 | 88 |
| 11 | Realizing the Full Potential of Insertion Anodes for Mg-Ion Batteries Through the Nanostructuring of Sn. Nano Letters, 2015, 15, 1177-1182. | 9.1 | 87 |
| 12 | Tunable, Metal-Loaded Polydopamine Nanoparticles Analyzed by Magnetometry. Chemistry of Materials, 2017, 29, 8195-8201. | 6.7 | 80 |
| 13 | Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 19728-19735. | 13.7 | 79 |
| 14 | Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11. | 15.6 | 78 |
| 15 | Facile Synthesis of Chevrel Phase Nanocubes and Their Applications for Multivalent Energy Storage. Chemistry of Materials, 2014, 26, 4904-4907. | 6.7 | 73 |
| 16 | Pore Breathing of Metalâ€“Organic Frameworks by Environmental Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 13973-13976. | 13.7 | 56 |
| 17 | Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 1348-1357. | 13.7 | 51 |
| 18 | Gaining Control over Radiolytic Synthesis of Uniform Sub-3-nanometer Palladium Nanoparticles: Use of Aromatic Liquids in the Electron Microscope. Langmuir, 2016, 32, 1468-1477. | 3.5 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 100th Anniversary of Macromolecular Science Viewpoint: Polymeric Materials by In Situ Liquid-Phase Transmission Electron Microscopy. ACS Macro Letters, 2021, 10, 14-38. | 4.8 | 25 |
| 22 | 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 |
| 23 | Complex Nanoparticle Diffusional Motion in Liquid-Cell Transmission Electron Microscopy. Journal of Physical Chemistry C, 2020, 124, 14881-14890. | 3.1 | 18 |
| 24 | In Situ Observation of Directed Nanoparticle Aggregation During the Synthesis of Ordered Nanoporous Metal in Soft Templates. Chemistry of Materials, 2014, 26, 1426-1433. | 6.7 | 14 |
| 25 | Picoliter Drop-On-Demand Dispensing for Multiplex Liquid Cell Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 507-514. | 0.4 | 12 |
| 26 | Chemical and physical transformations of carbon-based nanomaterials observed by liquid phase transmission electron microscopy. MRS Bulletin, 2020, 45, 727-737. | 3.5 | 8 |
| 27 | Experimental and computational investigations on the SO2 poisoning of (La0.8Sr0.2)0.95MnO3 cathode materials. , 2023, 2, 100062. | | 4 |
| 28 | 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 |
| 29 | 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 |
| 30 | Matrix controlled structural phase transformations in embedded metallic nanoparticles. Scripta Materialia, 2022, 213, 114632. | 5.2 | 1 |
| 31 | Controlled Radiolytic Synthesis in the Fluid Stage. Towards Understanding the Effect of the Electron Beam in Liquids. Microscopy and Microanalysis, 2015, 21, 2125-2126. | 0.4 | 0 |
| 32 | Hierarchical Spidroin Micellar Nanoparticles as the Precursors of Spider Silks. Microscopy and Microanalysis, 2019, 25, 1346-1347. | 0.4 | 0 |