

# Austin M Evans

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,458  
citations

186265

28  
h-index

206112

48  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3538  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Controlled $\pi$ -Doping of Naphthalene-Diimide-Based 2D Polymers. <i>Advanced Materials</i> , 2022, 34, e2101932.  | 21.0 | 13        |
| 2  | Two-Dimensional Polymers and Polymerizations. <i>Chemical Reviews</i> , 2022, 122, 442-564.   | 47.7 | 128       |
| 3  | Site-Selective Surface Modification of 2D Superatomic $\text{Re}_{6\text{Se}_8}$ . <i>Journal of the American Chemical Society</i> , 2022, 144, 74-79.  | 13.7 | 10        |
| 4  | Arene-perfluoroarene interactions confer enhanced mechanical properties to synthetic nanotubes. <i>Chemical Science</i> , 2022, 13, 2475-2480.  | 7.4  | 12        |
| 5  | Highly Negative Poisson's Ratio in Thermally Conductive Covalent Organic Frameworks. <i>ACS Nano</i> , 2022, 16, 2843-2851.   | 14.6 | 17        |
| 6  | High-Performance Organic Electronic Materials by Contorting Perylene Diimides. <i>Journal of the American Chemical Society</i> , 2022, 144, 42-51.  | 13.7 | 45        |
| 7  | $\pi$ -Conjugated redox-active two-dimensional polymers as organic cathode materials. <i>Chemical Science</i> , 2022, 13, 3533-3538.  | 7.4  | 9         |
| 8  | Cyclophane-based two-dimensional polymer formed by an interfacial click reaction. <i>Cell Reports Physical Science</i> , 2022, 3, 100806.   | 5.6  | 3         |
| 9  | A Semiconducting Two-Dimensional Polymer as an Organic Electrochemical Transistor Active Layer. <i>Advanced Materials</i> , 2022, 34, e2110703.   | 21.0 | 19        |
| 10 | Increased Molecular Conductance in Oligo[ <i>n</i> ]phenylene Wires by Thermally Enhanced Dihedral Planarization. <i>Nano Letters</i> , 2022, 22, 4919-4924.  | 9.1  | 9         |
| 11 | Trends in the thermal stability of two-dimensional covalent organic frameworks. <i>Faraday Discussions</i> , 2021, 225, 226-240.  | 3.2  | 41        |
| 12 | Transient Catenation in a Zirconium-Based Metal-Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. <i>Journal of the American Chemical Society</i> , 2021, 143, 1503-1512. | 13.7 | 28        |
| 13 | Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. <i>Nano Letters</i> , 2021, 21, 1288-1294.   | 9.1  | 8         |
| 14 | Postsynthetic Modification of a Covalent Organic Framework Achieved via Strain-Promoted Cycloaddition. <i>Journal of the American Chemical Society</i> , 2021, 143, 649-656.                              | 13.7 | 40        |
| 15 | Mapping Grains, Boundaries, and Defects in 2D Covalent Organic Framework Thin Films. <i>Chemistry of Materials</i> , 2021, 33, 1341-1352.   | 6.7  | 25        |
| 16 | Thermally conductive ultra-low- $k$ dielectric layers based on two-dimensional covalent organic frameworks. <i>Nature Materials</i> , 2021, 20, 1142-1148.  | 27.5 | 158       |
| 17 | Quantitative Description of the Lateral Growth of Two-Dimensional Covalent Organic Frameworks Reveals Self-Templation Effects. , 2021, 3, 398-405.  |      | 6         |
| 18 | Diverse Proton-Conducting Nanotubes via a Tandem Macrocyclization and Assembly Strategy. <i>Journal of the American Chemical Society</i> , 2021, 143, 8145-8153.  | 13.7 | 7         |

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|----|--|------|-----------|
| 19 | Materials breaking the rules: general discussion. <i>Faraday Discussions</i> , 2021, 225, 255-270.   | 3.2  | 0         |
| 20 | A Naphthalene Diimide Covalent Organic Framework: Comparison of Cathode Performance in Lithium-Ion Batteries with Amorphous Cross-linked and Linear Analogues, and Its Use in Aqueous Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 350-356. | 5.1  | 20        |
| 21 | Lithium-Conducting Self-Assembled Organic Nanotubes. <i>Journal of the American Chemical Society</i> , 2021, 143, 17655-17665.   | 13.7 | 7         |
| 22 | Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 783-791.   | 13.7 | 190       |
| 23 | Supramolecular polymerization provides non-equilibrium product distributions of imine-linked macrocycles. <i>Chemical Science</i> , 2020, 11, 1957-1963.   | 7.4  | 14        |
| 24 | Acid Exfoliation of Imine-Linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. <i>Angewandte Chemie</i> , 2020, 132, 5203-5209.   | 2.0  | 31        |
| 25 | Nucleation-Elongation Dynamics of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 1367-1374.   | 13.7 | 58        |
| 26 | Acid Exfoliation of Imine-Linked Covalent Organic Frameworks Enables Solution Processing into Crystalline Thin Films. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5165-5171.  | 13.8 | 128       |
| 27 | Rapid Synthesis of High Surface Area Imine-Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. <i>Advanced Materials</i> , 2020, 32, e1905776.   | 21.0 | 125       |
| 28 | New Mechanistic Insights into the Formation of Imine-Linked Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 18637-18644.   | 13.7 | 87        |
| 29 | Large Exciton Diffusion Coefficients in Two-Dimensional Covalent Organic Frameworks with Different Domain Sizes Revealed by Ultrafast Exciton Dynamics. <i>Journal of the American Chemical Society</i> , 2020, 142, 14957-14965.                                    | 13.7 | 68        |
| 30 | High-Sensitivity Acoustic Molecular Sensors Based on Large-Area, Spray-Coated 2D Covalent Organic Frameworks. <i>Advanced Materials</i> , 2020, 32, e2004205.  | 21.0 | 67        |
| 31 | Mechanism of Formation of Benzotrithiophene-Based Covalent Organic Framework Monolayers on Coinage-Metal Surfaces: C-C Coupling Selectivity and Monomer-Metal Interactions. <i>Chemistry of Materials</i> , 2020, 32, 10688-10696.                                   | 6.7  | 6         |
| 32 | Electronically Coupled 2D Polymer/MoS <sub>2</sub> Heterostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 21131-21139.   | 13.7 | 25        |
| 33 | All-Carbon-Linked Continuous Three-Dimensional Porous Aromatic Framework Films with Nanometer-Precise Controllable Thickness. <i>Journal of the American Chemical Society</i> , 2020, 142, 6548-6553.  | 13.7 | 31        |
| 34 | Cooperative Self-Assembly of Pyridine-2,6-Diimine-Linked Macrocycles into Mechanically Robust Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14708-14714.   | 13.8 | 19        |
| 35 | Chemical Control over Nucleation and Anisotropic Growth of Two-Dimensional Covalent Organic Frameworks. <i>ACS Central Science</i> , 2019, 5, 1892-1899.   | 11.3 | 44        |
| 36 | Cooperative Self-Assembly of Pyridine-2,6-Diimine-Linked Macrocycles into Mechanically Robust Nanotubes. <i>Angewandte Chemie</i> , 2019, 131, 14850-14856.  | 2.0  | 4         |

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|----|--|------|-----------|
| 37 | Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection. , 2019, 1, 440-446.  |      | 55        |
| 38 | Improved synthesis of $\beta^2$ -ketoenamine-linked covalent organic frameworks <i>via</i> monomer exchange reactions. Chemical Communications, 2019, 55, 2680-2683.   | 4.1  | 100       |
| 39 | Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. Nature Communications, 2019, 10, 504.   | 12.8 | 121       |
| 40 | Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. Materials Horizons, 2019, 6, 1868-1876.                   | 12.2 | 62        |
| 41 | Buckling of Two-Dimensional Covalent Organic Frameworks under Thermal Stress. Industrial & Engineering Chemistry Research, 2019, 58, 9883-9887.  | 3.7  | 30        |
| 42 | A Dinuclear Mechanism Implicated in Controlled Carbene Polymerization. Journal of the American Chemical Society, 2019, 141, 6473-6478.   | 13.7 | 40        |
| 43 | Controlled growth of imine-linked two-dimensional covalent organic framework nanoparticles. Chemical Science, 2019, 10, 3796-3801.   | 7.4  | 118       |
| 44 | Emissive Single-Crystalline Boroxine-Linked Colloidal Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 19728-19735.   | 13.7 | 79        |
| 45 | Equilibration of Imine-Linked Polymers to Hexagonal Macrocycles Driven by Self-Assembly. Chemistry - A European Journal, 2018, 24, 3989-3993.  | 3.3  | 33        |
| 46 | Oriented Films of Conjugated 2D Covalent Organic Frameworks as Photocathodes for Water Splitting. Journal of the American Chemical Society, 2018, 140, 2085-2092.  | 13.7 | 320       |
| 47 | Seeded growth of single-crystal two-dimensional covalent organic frameworks. Science, 2018, 361, 52-57.  | 12.6 | 474       |
| 48 | High aspect ratio nanotubes assembled from macrocyclic iminium salts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8883-8888.                                       | 7.1  | 36        |
| 49 | Colloidal Covalent Organic Frameworks. ACS Central Science, 2017, 3, 58-65.  | 11.3 | 216       |
| 50 | Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. Angewandte Chemie - International Edition, 2016, 55, 1714-1718. | 13.8 | 240       |
| 51 | Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. Angewandte Chemie, 2016, 128, 1746-1750.                        | 2.0  | 29        |