

# Emily C Davidson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/392417/publications.pdf>

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18  
papers

903  
citations

567281

15  
h-index

839539

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docs citations

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times ranked

1331  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Untethered soft robotic matter with passive control of shape morphing and propulsion. <i>Science Robotics</i> , 2019, 4, .   | 17.6 | 268       |
| 2  | 3D Printable and Reconfigurable Liquid Crystal Elastomers with Light-Induced Shape Memory via Dynamic Bond Exchange. <i>Advanced Materials</i> , 2020, 32, e1905682.                               | 21.0 | 195       |
| 3  | Where Biology and Traditional Polymers Meet: The Potential of Associating Sequence-Defined Polymers for Materials Science. <i>Jacs Au</i> , 2021, 1, 1556-1571.                                    | 7.9  | 48        |
| 4  | Branched Side Chains Govern Counterion Position and Doping Mechanism in Conjugated Polythiophenes. <i>ACS Macro Letters</i> , 2018, 7, 1492-1497.  | 4.8  | 45        |
| 5  | Impact of Helical Chain Shape in Sequence-Defined Polymers on Polypeptoid Block Copolymer Self-Assembly. <i>Macromolecules</i> , 2018, 51, 2089-2098.  | 4.8  | 42        |
| 6  | Isothermal Crystallization Kinetics and Time-Temperature Transformation of the Conjugated Polymer: Poly(3-(2-ethyl)hexylthiophene). <i>Chemistry of Materials</i> , 2017, 29, 5654-5662.           | 6.7  | 41        |
| 7  | The Role of Hydrogen Bonding in Peptoid-Based Marine Antifouling Coatings. <i>Macromolecules</i> , 2019, 52, 1287-1295.  | 4.8  | 41        |
| 8  | Sequence Effects on Block Copolymer Self-Assembly through Tuning Chain Conformation and Segregation Strength Utilizing Sequence-Defined Polypeptoids. <i>Macromolecules</i> , 2019, 52, 1277-1286. | 4.8  | 37        |
| 9  | Unraveling the Effect of Conformational and Electronic Disorder in the Charge Transport Processes of Semiconducting Polymers. <i>Advanced Functional Materials</i> , 2018, 28, 1804142.            | 14.9 | 34        |
| 10 | Effects of Helical Chain Shape on Lamellae-Forming Block Copolymer Self-Assembly. <i>Macromolecules</i> , 2019, 52, 2560-2568.   | 4.8  | 24        |
| 11 | Confined crystallization in lamellae forming poly(3-(2-ethyl)hexylthiophene) (P3EHT) block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 205-215.             | 2.1  | 20        |
| 12 | Monomer Sequence Effects on Interfacial Width and Mixing in Self-Assembled Diblock Copolymers. <i>Macromolecules</i> , 2020, 53, 3262-3272.  | 4.8  | 19        |
| 13 | Thermal Control of Confined Crystallization within P3EHT Block Copolymer Microdomains. <i>Macromolecules</i> , 2017, 50, 8097-8105.  | 4.8  | 18        |
| 14 | Confined Crystallization within Cylindrical P3EHT Block Copolymer Microdomains. <i>Macromolecules</i> , 2017, 50, 6128-6136.   | 4.8  | 17        |
| 15 | Temperature-Dependence of Persistence Length Affects Phenomenological Descriptions of Aligning Interactions in Nematic Semiconducting Polymers. <i>Chemistry of Materials</i> , 2018, 30, 748-761. | 6.7  | 17        |
| 16 | Enhanced Water Vapor Blocking in Transparent Hybrid Polymer-Nanocrystal Films. <i>ACS Macro Letters</i> , 2015, 4, 70-74.  | 4.8  | 15        |
| 17 | Absence of Electrostatic Rigidity in Conjugated Polyelectrolytes with Pendant Charges. <i>ACS Macro Letters</i> , 2019, 8, 1147-1152.  | 4.8  | 15        |
| 18 | On the growth, structure and dynamics of P3EHT crystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8155-8170.   | 5.5  | 7         |