# Suchol Savagatrup

List of Publications by Year
in descending order



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|---|---|---|---|
| 44 papers | 4,105 citations | 196777 29 h-index | 274796 44 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 6606 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Detection of PFAS and Fluorinated Surfactants Using Differential Behaviors at Interfaces of Complex Droplets. ACS Sensors, 2022, 7, 1514-1523. | 4.0 | 16 |
| 2 | Rapid Detection of Sepsis: Recent Advances in Biomarker Sensing Platforms. ACS Omega, 2021, 6, 31390-31395. | 1.6 | 13 |
| 3 | Programmable Emulsions via Nucleophile-Induced Covalent Surfactant Modifications. Chemistry of Materials, 2020, 32, 4663-4671. | 3.2 | 15 |
| 4 | Fluorescent Janus emulsions for biosensing of <i>Listeria monocytogenes</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11923-11930. | 3.3 | 28 |
| 5 | Dynamic Complex Emulsions as Amplifiers for On-Chip Photonic Cavity-Enhanced Resonators. ACS Sensors, 2020, 5, 1996-2002. | 4.0 | 14 |
| 6 | Porous Ion Exchange Polymer Matrix for Ultrasmall Au Nanoparticle-Decorated Carbon Nanotube Chemiresistors. Chemistry of Materials, 2019, 31, 5413-5420. | 3.2 | 17 |
| 7 | Chemiresistive Sensor Array and Machine Learning Classification of Food. ACS Sensors, 2019, 4, 2101-2108. | 4.0 | 95 |
| 8 | Precision pH Sensor Based on WO<sub>3</sub> Nanofiber-Polymer Composites and Differential Amplification. ACS Sensors, 2019, 4, 2593-2598. | 4.0 | 30 |
| 9 | Rapid Detection of <i>Salmonella enterica</i> via Directional Emission from Carbohydrate-Functionalized Dynamic Double Emulsions. ACS Central Science, 2019, 5, 789-795. | 5.3 | 48 |
| 10 | Waveguide-based chemo- and biosensors: complex emulsions for the detection of caffeine and proteins. Lab on A Chip, 2019, 19, 1327-1331. | 3.1 | 34 |
| 11 | Janus Graphene: Scalable Selfâ€Assembly and Solutionâ€Phase Orthogonal Functionalization. Advanced Materials, 2019, 31, e1900438. | 11.1 | 42 |
| 12 | Morphology-Dependent Luminescence in Complex Liquid Colloids. Journal of the American Chemical Society, 2019, 141, 3802-3806. | 6.6 | 24 |
| 13 | Carbon Nanotube Chemical Sensors. Chemical Reviews, 2019, 119, 599-663. | 23.0 | 732 |
| 14 | Modular synthesis of polymers containing 2,5â€di(thiophenyl)â€<i>N</i>â€arylpyrrole. Journal of Polymer Science Part A, 2018, 56, 1133-1139. | 2.5 | 2 |
| 15 | Insights into Magneto-Optics of Helical Conjugated Polymers. Journal of the American Chemical Society, 2018, 140, 6501-6508. | 6.6 | 76 |
| 16 | Stretchable and Degradable Semiconducting Block Copolymers. Macromolecules, 2018, 51, 5944-5949. | 2.2 | 68 |
| 17 | Effects of flexibility and branching of side chains on the mechanical properties of low-bandgap conjugated polymers. Polymer Chemistry, 2018, 9, 4354-4363. | 1.9 | 68 |
| 18 | Interfacial Polymerization on Dynamic Complex Colloids: Creating Stabilized Janus Droplets. ACS Applied Materials & Interfaces, 2017, 9, 7804-7811. | 4.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Janus Emulsions for the Detection of Bacteria. ACS Central Science, 2017, 3, 309-313. | 5.3 | 71 |
| 20 | Mechanical Properties of Organic Semiconductors for Stretchable, Highly Flexible, and Mechanically Robust Electronics. Chemical Reviews, 2017, 117, 6467-6499. | 23.0 | 624 |
| 21 | Modelling the morphology and thermomechanical behaviour of low-bandgap conjugated polymers and bulk heterojunction films. Energy and Environmental Science, 2017, 10, 558-569. | 15.6 | 60 |
| 22 | Bioâ€Inspired Carbon Monoxide Sensors with Voltageâ€Activated Sensitivity. Angewandte Chemie, 2017, 129, 14254-14258. | 1.6 | 14 |
| 23 | Bioâ€Inspired Carbon Monoxide Sensors with Voltageâ€Activated Sensitivity. Angewandte Chemie - International Edition, 2017, 56, 14066-14070. | 7.2 | 27 |
| 24 | Efficient Characterization of Bulk Heterojunction Films by Mapping Gradients by Reversible Contact with Liquid Metal Top Electrodes. Chemistry of Materials, 2017, 29, 389-398. | 3.2 | 11 |
| 25 | Predicting the Mechanical Properties of Organic Semiconductors Using Coarse-Grained Molecular Dynamics Simulations. Macromolecules, 2016, 49, 2886-2894. | 2.2 | 69 |
| 26 | Mechanical Properties of Solution-Processed Small-Molecule Semiconductor Films. ACS Applied Materials & Interfaces, 2016, 8, 11649-11657. | 4.0 | 55 |
| 27 | Effect of Broken Conjugation on the Stretchability of Semiconducting Polymers. Macromolecular Rapid Communications, 2016, 37, 1623-1628. | 2.0 | 87 |
| 28 | Fatigue in organic semiconductors: Spectroscopic evolution of microstructure due to cyclic loading in poly(3-heptylthiophene). Synthetic Metals, 2016, 217, 144-151. | 2.1 | 12 |
| 29 | Mechanical Properties of a Library of Low-Band-Gap Polymers. Chemistry of Materials, 2016, 28, 2363-2373. | 3.2 | 125 |
| 30 | Wearable organic solar cells with high cyclic bending stability: Materials selection criteria. Solar Energy Materials and Solar Cells, 2016, 144, 438-444. | 3.0 | 109 |
| 31 | [70]PCBM and Incompletely Separated Grades of Methanofullerenes Produce Bulk Heterojunctions with Increased Robustness for Ultra-Flexible and Stretchable Electronics. Chemistry of Materials, 2015, 27, 3902-3911. | 3.2 | 48 |
| 32 | Yield Point of Semiconducting Polymer Films on Stretchable Substrates Determined by Onset of Buckling. ACS Applied Materials & Interfaces, 2015, 7, 23257-23264. | 4.0 | 60 |
| 33 | Metal-assisted exfoliation (MAE): green, roll-to-roll compatible method for transferring graphene to flexible substrates. Nanotechnology, 2015, 26, 045301. | 1.3 | 36 |
| 34 | Plasticization of PEDOT:PSS by Common Additives for Mechanically Robust Organic Solar Cells and Wearable Sensors. Advanced Functional Materials, 2015, 25, 427-436. | 7.8 | 287 |
| 35 | Viability of stretchable poly(3-heptylthiophene) (P3HpT) for organic solar cells and field-effect transistors. Synthetic Metals, 2015, 203, 208-214. | 2.1 | 75 |
| 36 | Role of molecular mixing on the stiffness of polymer:fullerene bulk heterojunction films. Solar Energy Materials and Solar Cells, 2015, 134, 64-72. | 3.0 | 19 |

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|---|---|---|---|
| 37 | Mechanical degradation and stability of organic solar cells: molecular and microstructural determinants. Energy and Environmental Science, 2015, 8, 55-80. | 15.6 | 205 |
| 38 | Toward intrinsically stretchable organic semiconductors: mechanical properties of high-performance conjugated polymers. , 2014, , . | | 1 |
| 39 | Molecularly Stretchable Electronics. Chemistry of Materials, 2014, 26, 3028-3041. | 3.2 | 170 |
| 40 | Stretching and conformal bonding of organic solar cells to hemispherical surfaces. Energy and Environmental Science, 2014, 7, 370-378. | 15.6 | 62 |
| 41 | Mechanical Properties of Conjugated Polymers and Polymerâ€Fullerene Composites as a Function of Molecular Structure. Advanced Functional Materials, 2014, 24, 1169-1181. | 7.8 | 209 |
| 42 | Increased elasticity of a low-bandgap conjugated copolymer by random segmentation for mechanically robust solar cells. RSC Advances, 2014, 4, 13635-13643. | 1.7 | 73 |
| 43 | Best of Both Worlds: Conjugated Polymers Exhibiting Good Photovoltaic Behavior and High Tensile Elasticity. Macromolecules, 2014, 47, 1981-1992. | 2.2 | 138 |
| 44 | Role of Mechanical Factors in Controlling the Structureâ€"Function Relationship of PFSA Ionomers. Macromolecules, 2012, 45, 7467-7476. | 2.2 | 119 |