

Suchol Savagatrup

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

3,032
citations

27
h-index

45
g-index

45
ext. papers

3,547
ext. citations

13.5
avg, IF

5.6
L-index

| # | Paper | IF | Citations |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 43 | Carbon Nanotube Chemical Sensors. <i>Chemical Reviews</i> , 2019 , 119, 599-663 | 68.1 | 444 |
| 42 | Mechanical Properties of Organic Semiconductors for Stretchable, Highly Flexible, and Mechanically Robust Electronics. <i>Chemical Reviews</i> , 2017 , 117, 6467-6499 | 68.1 | 430 |
| 41 | Plasticization of PEDOT:PSS by Common Additives for Mechanically Robust Organic Solar Cells and Wearable Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 427-436 | 15.6 | 234 |
| 40 | Mechanical Properties of Conjugated Polymers and Polymer-Fullerene Composites as a Function of Molecular Structure. <i>Advanced Functional Materials</i> , 2014 , 24, 1169-1181 | 15.6 | 181 |
| 39 | Mechanical degradation and stability of organic solar cells: molecular and microstructural determinants. <i>Energy and Environmental Science</i> , 2015 , 8, 55-80 | 35.4 | 172 |
| 38 | Molecularly Stretchable Electronics. <i>Chemistry of Materials</i> , 2014 , 26, 3028-3041 | 9.6 | 157 |
| 37 | Best of Both Worlds: Conjugated Polymers Exhibiting Good Photovoltaic Behavior and High Tensile Elasticity. <i>Macromolecules</i> , 2014 , 47, 1981-1992 | 5.5 | 121 |
| 36 | Mechanical Properties of a Library of Low-Band-Gap Polymers. <i>Chemistry of Materials</i> , 2016 , 28, 2363-2373 | 9.6 | 101 |
| 35 | Wearable organic solar cells with high cyclic bending stability: Materials selection criteria. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 438-444 | 6.4 | 93 |
| 34 | Role of Mechanical Factors in Controlling the Structure-Function Relationship of PFSA Ionomers. <i>Macromolecules</i> , 2012 , 45, 7467-7476 | 5.5 | 89 |
| 33 | Viability of stretchable poly(3-heptylthiophene) (P3HpT) for organic solar cells and field-effect transistors. <i>Synthetic Metals</i> , 2015 , 203, 208-214 | 3.6 | 67 |
| 32 | Increased elasticity of a low-bandgap conjugated copolymer by random segmentation for mechanically robust solar cells. <i>RSC Advances</i> , 2014 , 4, 13635-13643 | 3.7 | 67 |
| 31 | Effect of Broken Conjugation on the Stretchability of Semiconducting Polymers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1623-1628 | 4.8 | 64 |
| 30 | Stretching and conformational bonding of organic solar cells to hemispherical surfaces. <i>Energy and Environmental Science</i> , 2014 , 7, 370-378 | 35.4 | 56 |
| 29 | Janus Emulsions for the Detection of Bacteria. <i>ACS Central Science</i> , 2017 , 3, 309-313 | 16.8 | 54 |
| 28 | Insights into Magneto-Optics of Helical Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6501-6508 | 16.4 | 53 |
| 27 | Modelling the morphology and thermomechanical behaviour of low-bandgap conjugated polymers and bulk heterojunction films. <i>Energy and Environmental Science</i> , 2017 , 10, 558-569 | 35.4 | 50 |

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| 26 | Yield Point of Semiconducting Polymer Films on Stretchable Substrates Determined by Onset of Buckling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23257-64 | 9.5 | 49 |
| 25 | Predicting the Mechanical Properties of Organic Semiconductors Using Coarse-Grained Molecular Dynamics Simulations. <i>Macromolecules</i> , 2016 , 49, 2886-2894 | 5.5 | 49 |
| 24 | Mechanical Properties of Solution-Processed Small-Molecule Semiconductor Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11649-57 | 9.5 | 46 |
| 23 | [70]PCBM and Incompletely Separated Grades of Methanofullerenes Produce Bulk Heterojunctions with Increased Robustness for Ultra-Flexible and Stretchable Electronics. <i>Chemistry of Materials</i> , 2015 , 27, 3902-3911 | 9.6 | 45 |
| 22 | Stretchable and Degradable Semiconducting Block Copolymers. <i>Macromolecules</i> , 2018 , 51, 5944-5949 | 5.5 | 44 |
| 21 | Chemiresistive Sensor Array and Machine Learning Classification of Food. <i>ACS Sensors</i> , 2019 , 4, 2101-2108 | 9.2 | 43 |
| 20 | Effects of flexibility and branching of side chains on the mechanical properties of low-bandgap conjugated polymers. <i>Polymer Chemistry</i> , 2018 , 9, 4354-4363 | 4.9 | 39 |
| 19 | Rapid Detection of via Directional Emission from Carbohydrate-Functionalized Dynamic Double Emulsions. <i>ACS Central Science</i> , 2019 , 5, 789-795 | 16.8 | 36 |
| 18 | Janus Graphene: Scalable Self-Assembly and Solution-Phase Orthogonal Functionalization. <i>Advanced Materials</i> , 2019 , 31, e1900438 | 24 | 31 |
| 17 | Metal-assisted exfoliation (MAE): green, roll-to-roll compatible method for transferring graphene to flexible substrates. <i>Nanotechnology</i> , 2015 , 26, 045301 | 3.4 | 30 |
| 16 | Bio-Inspired Carbon Monoxide Sensors with Voltage-Activated Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14066-14070 | 16.4 | 22 |
| 15 | Waveguide-based chemo- and biosensors: complex emulsions for the detection of caffeine and proteins. <i>Lab on A Chip</i> , 2019 , 19, 1327-1331 | 7.2 | 21 |
| 14 | Precision pH Sensor Based on WO Nanofiber-Polymer Composites and Differential Amplification. <i>ACS Sensors</i> , 2019 , 4, 2593-2598 | 9.2 | 20 |
| 13 | Role of molecular mixing on the stiffness of polymer:fullerene bulk heterojunction films. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 64-72 | 6.4 | 18 |
| 12 | Interfacial Polymerization on Dynamic Complex Colloids: Creating Stabilized Janus Droplets. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7804-7811 | 9.5 | 13 |
| 11 | Morphology-Dependent Luminescence in Complex Liquid Colloids. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3802-3806 | 16.4 | 13 |
| 10 | Programmable Emulsions via Nucleophile-Induced Covalent Surfactant Modifications. <i>Chemistry of Materials</i> , 2020 , 32, 4663-4671 | 9.6 | 12 |
| 9 | Porous Ion Exchange Polymer Matrix for Ultrasmall Au Nanoparticle-Decorated Carbon Nanotube Chemiresistors. <i>Chemistry of Materials</i> , 2019 , 31, 5413-5420 | 9.6 | 12 |

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| 8 | Fatigue in organic semiconductors: Spectroscopic evolution of microstructure due to cyclic loading in poly(3-heptylthiophene). <i>Synthetic Metals</i> , 2016 , 217, 144-151 | 3.6 | 11 |
| 7 | Bio-Inspired Carbon Monoxide Sensors with Voltage-Activated Sensitivity. <i>Angewandte Chemie</i> , 2017 , 129, 14254-14258 | 3.6 | 10 |
| 6 | Fluorescent Janus emulsions for biosensing of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11923-11930 | 11.5 | 10 |
| 5 | Efficient Characterization of Bulk Heterojunction Films by Mapping Gradients by Reversible Contact with Liquid Metal Top Electrodes. <i>Chemistry of Materials</i> , 2017 , 29, 389-398 | 9.6 | 9 |
| 4 | Dynamic Complex Emulsions as Amplifiers for On-Chip Photonic Cavity-Enhanced Resonators. <i>ACS Sensors</i> , 2020 , 5, 1996-2002 | 9.2 | 5 |
| 3 | Rapid Detection of Sepsis: Recent Advances in Biomarker Sensing Platforms. <i>ACS Omega</i> , 2021 , 6, 31390-31395 | 3.3 | 3 |
| 2 | Modular Synthesis of Polymers Containing 2,5-di(thiophenyl)-N-arylpyrrole. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 1133-1139 | 2.5 | 2 |
| 1 | Toward intrinsically stretchable organic semiconductors: mechanical properties of high-performance conjugated polymers 2014 , | | 1 |