

# Trisha L Andrew

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6316231/publications.pdf>

Version: 2024-02-01

84  
papers

2,554  
citations

279798

23  
h-index

206112

48  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4080  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Effect of synthetic accessibility on the commercial viability of organic photovoltaics. <i>Energy and Environmental Science</i> , 2013, 6, 711.   | 30.8 | 288       |
| 2  | Confining Light to Deep Subwavelength Dimensions to Enable Optical Nanopatterning. <i>Science</i> , 2009, 324, 917-921.   | 12.6 | 220       |
| 3  | A Fluorescence Turn-On Mechanism to Detect High Explosives RDX and PETN. <i>Journal of the American Chemical Society</i> , 2007, 129, 7254-7255.  | 13.7 | 214       |
| 4  | Transforming Commercial Textiles and Threads into Sewable and Weavable Electric Heaters. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32299-32307.                                    | 8.0  | 128       |
| 5  | Improving the Performance of P3HTâ€‘Fullerene Solar Cells with Side-Chain-Functionalized Poly(thiophene) Additives: A New Paradigm for Polymer Design. <i>ACS Nano</i> , 2012, 6, 3044-3056.      | 14.6 | 123       |
| 6  | Towards seamlessly-integrated textile electronics: methods to coat fabrics and fibers with conducting polymers for electronic applications. <i>Chemical Communications</i> , 2017, 53, 7182-7193. | 4.1  | 118       |
| 7  | Wearable Sensors for Monitoring Human Motion: A Review on Mechanisms, Materials, and Challenges. <i>SLAS Technology</i> , 2020, 25, 9-24.   | 1.9  | 106       |
| 8  | A Wearable Allâ€‘Fabric Thermoelectric Generator. <i>Advanced Materials Technologies</i> , 2019, 4, 1800615.  | 5.8  | 100       |
| 9  | Structureâ€‘Property relationships for exciton transfer in conjugated polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 476-498.                                   | 2.1  | 91        |
| 10 | A Strategy for Accessing Nanobody-Based Electrochemical Sensors for Analyte Detection in Complex Media. , 2022, 1, 010601.  |      | 84        |
| 11 | Rugged Textile Electrodes for Wearable Devices Obtained by Vapor Coating Offâ€‘theâ€‘Shelf, Plainâ€‘Woven Fabrics. <i>Advanced Functional Materials</i> , 2017, 27, 1700415.                      | 14.9 | 76        |
| 12 | Allâ€‘Textile Triboelectric Generator Compatible with Traditional Textile Process. <i>Advanced Materials Technologies</i> , 2016, 1, 1600147.   | 5.8  | 75        |
| 13 | Detection of Explosives via Photolytic Cleavage of Nitroesters and Nitramines. <i>Journal of Organic Chemistry</i> , 2011, 76, 2976-2993.   | 3.2  | 65        |
| 14 | Melding Vapor-Phase Organic Chemistry and Textile Manufacturing To Produce Wearable Electronics. <i>Accounts of Chemical Research</i> , 2018, 51, 850-859.  | 15.6 | 65        |
| 15 | Vapor-printed polymer electrodes for long-term, on-demand health monitoring. <i>Science Advances</i> , 2019, 5, eaaw0463.   | 10.3 | 64        |
| 16 | Synthesis, Reactivity, and Electronic Properties of 6,6-Dicyanofulvenes. <i>Organic Letters</i> , 2010, 12, 5302-5305.  | 4.6  | 59        |
| 17 | Vapor phase organic chemistry to deposit conjugated polymer films on arbitrary substrates. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5787-5796.  | 5.5  | 41        |
| 18 | Perspectiveâ€‘Challenges in Developing Wearable Electrochemical Sensors for Longitudinal Health Monitoring. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037542.                    | 2.9  | 35        |

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|----|--|------|-----------|
| 19 | A critical review of reactive vapor deposition for conjugated polymer synthesis. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7159-7174.   | 5.5  | 33        |
| 20 | High Energy Density, Super-Deformable, Garment-Integrated Microsupercapacitors for Powering Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36834-36840.                                   | 8.0  | 32        |
| 21 | On-site identification of ozone damage in fruiting plants using vapor-deposited conducting polymer tattoos. <i>Science Advances</i> , 2020, 6, .   | 10.3 | 32        |
| 22 | Phyjama. , 2019, 3, 1-29.  |      | 31        |
| 23 | Multimodal Smart Eyewear for Longitudinal Eye Movement Tracking. <i>Matter</i> , 2020, 3, 1275-1293.   | 10.0 | 30        |
| 24 | Integrating a Semitransparent, Fullerene-Free Organic Solar Cell in Tandem with a BiVO <sub>4</sub> Photoanode for Unassisted Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22449-22455. | 8.0  | 24        |
| 25 | High open-circuit voltage, high fill factor single-junction organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, 083304.   | 3.3  | 23        |
| 26 | Fabric as a Sensor. , 2018, , .  |      | 22        |
| 27 | An Aqueous Eutectic Electrolyte for Low-Cost, Safe Energy Storage with an Operational Temperature Range of 150 °C, from -70 to 80°C. <i>Journal of Physical Chemistry C</i> , 2021, 125, 246-251.                          | 3.1  | 22        |
| 28 | Photoluminescent energy transfer from poly(phenyleneethynylene)s to near-infrared emitting fluorophores. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3382-3391.   | 2.3  | 21        |
| 29 | Thermally Polymerized Rylene Nanoparticles. <i>Macromolecules</i> , 2011, 44, 2276-2281.   | 4.8  | 19        |
| 30 | Deposition Dependent Ion Transport in Doped Conjugated Polymer Films: Insights for Creating High-Performance Electrochemical Devices. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700873.                             | 3.7  | 19        |
| 31 | Vapor-Coated Monofilament Fibers for Embroidered Electrochemical Transistor Arrays on Fabrics. <i>Advanced Electronic Materials</i> , 2018, 4, 1800271.  | 5.1  | 18        |
| 32 | Wash-stable, oxidation resistant conductive cotton electrodes for wearable electronics. <i>RSC Advances</i> , 2019, 9, 9198-9203.  | 3.6  | 17        |
| 33 | The Future of Smart Textiles: User Interfaces and Health Monitors. <i>Matter</i> , 2020, 2, 794-795.   | 10.0 | 17        |
| 34 | Orientation Control of Selected Organic Semiconductor Crystals Achieved by Monolayer Graphene Templates. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600621.  | 3.7  | 16        |
| 35 | ITO-Free Transparent Organic Solar Cell with Distributed Bragg Reflector for Solar Harvesting Windows. <i>Energies</i> , 2017, 10, 707.  | 3.1  | 16        |
| 36 | PressION: An All-Fabric Piezoionic Pressure Sensor for Extracting Physiological Metrics in Both Static and Dynamic Contexts. <i>Journal of the Electrochemical Society</i> , 2021, 168, 017515.                            | 2.9  | 15        |

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|----|--|------|-----------|
| 37 | Enabling Longitudinal Respiration Monitoring Using Vapor-Coated Conducting Textiles. ACS Omega, 2021, 6, 31869-31875.  | 3.5  | 14        |
| 38 | Flexible computational photodetectors for self-powered activity sensing. Npj Flexible Electronics, 2022, 6, .  | 10.7 | 14        |
| 39 | Subwavelength nanopatterning of photochromic diarylethene films. Applied Physics Letters, 2012, 100, 183103.   | 3.3  | 11        |
| 40 | Triplet exciton dissociation and electron extraction in graphene-templated pentacene observed with ultrafast spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 4809-4820. | 2.8  | 11        |
| 41 | Using the Surface Features of Plant Matter to Create All-Polymer Pseudocapacitors with High Areal Capacitance. ACS Applied Materials & Interfaces, 2018, 10, 38574-38580.            | 8.0  | 11        |
| 42 | Observing Electron Extraction by Monolayer Graphene Using Time-Resolved Surface Photoresponse Measurements. ACS Nano, 2015, 9, 2510-2517.  | 14.6 | 10        |
| 43 | Reverse-absorbance-modulation-optical lithography for optical nanopatterning at low light levels. AIP Advances, 2016, 6, 065312.   | 1.3  | 10        |
| 44 | A comprehensive simulation model of the performance of photochromic films in absorbance-modulation-optical-lithography. AIP Advances, 2016, 6, .                                     | 1.3  | 9         |
| 45 | Synthesis and Properties of Dithiocarbamate-Linked Acenes. Organic Letters, 2017, 19, 210-213.   | 4.6  | 8         |
| 46 | Real-time and noninvasive detection of UV-Induced deep tissue damage using electrical tattoos. Biosensors and Bioelectronics, 2020, 150, 111909.                                     | 10.1 | 8         |
| 47 | PhyMask: Robust Sensing of Brain Activity and Physiological Signals During Sleep with an All-textile Eye Mask. ACM Transactions on Computing for Healthcare, 2022, 3, 1-35.          | 5.0  | 8         |
| 48 | Anomalous Paramagnetism in Closed-Shell Molecular Semiconductors. Journal of Physical Chemistry C, 2017, 121, 24929-24935.   | 3.1  | 7         |
| 49 | Fluoropolymer-Wrapped Conductive Threads for Textile Touch Sensors Operating via the Triboelectric Effect. Fibers, 2018, 6, 41.  | 4.0  | 7         |
| 50 | Self-discharge characteristics of vapor deposited polymer electrodes in an all-textile supercapacitor. Synthetic Metals, 2020, 268, 116483.  | 3.9  | 7         |
| 51 | Immobilization of Nanobodies with Vapor-Deposited Polymer Encapsulation for Robust Biosensors. ACS Applied Polymer Materials, 2021, 3, 2561-2567.                                    | 4.4  | 7         |
| 52 | Perspective“Longitudinal Sleep Monitoring for All: Payoffs, Challenges and Outlook. , 2022, 1, 011602.   |      | 7         |
| 53 | Nanopatterning of diarylethene films via selective dissolution of one photoisomer. Applied Physics Letters, 2013, 103, .   | 3.3  | 6         |
| 54 | Improved photovoltaic response of a near-infrared sensitive solar cell by a morphology-controlling seed layer. Organic Electronics, 2016, 33, 135-141.                               | 2.6  | 6         |

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|----|---|------|-----------|
| 55 | Restricting the $\tilde{\Gamma}$ Torsion Angle Has Stereoelectronic Consequences on a Scissile Bond: An Electronic Structure Analysis. <i>Biochemistry</i> , 2015, 54, 5748-5756.   | 2.5  | 4         |
| 56 | Origin of high open-circuit voltage in a planar heterojunction solar cell containing a non-fullerene acceptor. <i>Applied Physics Letters</i> , 2017, 111, .  | 3.3  | 4         |
| 57 | Reactive Vapor Deposition of Conjugated Polymer Films on Arbitrary Substrates. <i>Journal of Visualized Experiments</i> , 2018, , .   | 0.3  | 4         |
| 58 | Solvent-Free Reactive Vapor Deposition for Functional Fabrics: Separating Oilâ€“Water Mixtures with Fabrics. <i>Fibers</i> , 2019, 7, 2.  | 4.0  | 4         |
| 59 | A vapor printed electron-accepting conjugated polymer for textile optoelectronics. <i>Synthetic Metals</i> , 2019, 250, 1-6.  | 3.9  | 3         |
| 60 | Biosensor Encapsulation via Photoinitiated Chemical Vapor Deposition (piCVD). <i>Journal of the Electrochemical Society</i> , 2021, 168, 077518.  | 2.9  | 3         |
| 61 | Phyjama. <i>GetMobile (New York, N Y )</i> , 2020, 24, 33-37.   | 1.0  | 3         |
| 62 | Largeâ€“Area Heteroepitaxial Nanostructuring of Molecular Semiconductor Films for Enhanced Optoelectronic Response in Flexible Electronics. <i>Advanced Functional Materials</i> , 0, , 2113085.  | 14.9 | 2         |
| 63 | FabToys. , 2022, , .  |      | 2         |
| 64 | Oxidant aggregate-induced porosity in vapour-deposited polymer films and correlated impact on electrochemical properties. <i>Supramolecular Chemistry</i> , 2019, 31, 491-498.  | 1.2  | 1         |
| 65 | 1D nanowires of non-centrosymmetric molecular semiconductors grown by physical vapor deposition. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 110-116.  | 3.4  | 1         |
| 66 | Sustainable polymer materials for flexible light control and thermal management. <i>Journal of Polymer Science</i> , 0, , .   | 3.8  | 1         |
| 67 | Facile Fabrication of Stable Enzyme-Based Colorimetric Glucose Biosensor on Cotton Using Polymer Entrapment. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1885-1885.   | 0.0  | 1         |
| 68 | Guaiazulene revisited: a new material for green-processed optoelectronics. <i>Polymer Chemistry</i> , 2020, 11, 7656-7661.  | 3.9  | 0         |
| 69 | Broadband-absorbing polycyclic aromatic hydrocarbon composite films on topologically complex substrates. <i>Organic Electronics</i> , 2020, 85, 105862.   | 2.6  | 0         |
| 70 | (Invited) Fabric Pressure Sensors for Longitudinal Monitoring of Human Motion in Natural Environments. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1387-1387.   | 0.0  | 0         |
| 71 | Chemometrics and Signal Processing-Assisted Design of a Textile-Based Colorimetric Sensing Platform for Real-Time Monitoring of Glucose. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1319-1319.   | 0.0  | 0         |
| 72 | (IMCS First Place Best Poster Award) Encapsulation through Photoinitiated Chemical Vapor Phase Deposition (piCVD) for Obtaining Antifouling and Stabilized Biosensing Interface. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1655-1655. | 0.0  | 0         |

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|----|--|-----|-----------|
| 73 | All-Fabric Piezoionic Sensor for Simultaneous Sensing of Static and Dynamic Pressures. ECS Meeting Abstracts, 2021, MA2021-01, 1354-1354.                                    | 0.0 | 0         |
| 74 | On-Site Longitudinal Monitoring of Crop Health Using Vapor-Printed Polymer Tattoos. ECS Meeting Abstracts, 2021, MA2021-01, 1543-1543.                                       | 0.0 | 0         |
| 75 | Patterning via Optical Saturable Transitions - Fabrication and Characterization. Journal of Visualized Experiments, 2014, , .  | 0.3 | 0         |
| 76 | (Invited) Garment Integrated Sensors Created Using Reactive Vapor Deposition. ECS Meeting Abstracts, 2019, , .   | 0.0 | 0         |
| 77 | (Invited) Electrical Properties of Vapor-Deposited Organic Semiconductor Nanowires By Conductive Atomic Force Microscopy. ECS Meeting Abstracts, 2020, MA2020-01, 1054-1054. | 0.0 | 0         |
| 78 | Vapor-Phase Dehydrogenative Synthesis of Polycyclic Aromatic Hydrocarbons for Garment-Integrated Solar Cells. ECS Meeting Abstracts, 2020, MA2020-01, 902-902.               | 0.0 | 0         |
| 79 | Self-Discharge Characteristics of Vapor Deposited Polymer Electrodes in an All-Textile Supercapacitor. ECS Meeting Abstracts, 2020, MA2020-01, 2-2.                          | 0.0 | 0         |
| 80 | (Invited) Sensing Human Behavior with Smart Garments. ECS Meeting Abstracts, 2020, MA2020-01, 2005-2005.   | 0.0 | 0         |
| 81 | An Aqueous Electrolyte for Fast Energy Storage at -70oC. ECS Meeting Abstracts, 2020, MA2020-02, 789-789.  | 0.0 | 0         |
| 82 | (Invited) Immobilization of Nanobodies with Vapor-Deposited Polymer Encapsulation for Robust Biosensors. ECS Meeting Abstracts, 2021, MA2021-02, 1645-1645.                  | 0.0 | 0         |
| 83 | Materials Selection Principles for Sensing Human Motion and Physiological Signals Via Textiles. ECS Meeting Abstracts, 2021, MA2021-02, 1585-1585.                           | 0.0 | 0         |
| 84 | Garment-integrated thermoelectric generator arrays for wearable body heat harvesting. Flexible and Printed Electronics, 2021, 6, 044006.                                     | 2.7 | 0         |