

Trisha L Andrew

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

2,554
citations

279487

23
h-index

205818

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.	15.6	288
2	Confining Light to Deep Subwavelength Dimensions to Enable Optical Nanopatterning. <i>Science</i> , 2009, 324, 917-921.	6.0	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.	6.6	214
4	Transforming Commercial Textiles and Threads into Sewable and Weavable Electric Heaters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32299-32307.	4.0	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.	7.3	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.	2.2	118
7	Wearable Sensors for Monitoring Human Motion: A Review on Mechanisms, Materials, and Challenges. <i>SLAS Technology</i> , 2020, 25, 9-24.	1.0	106
8	A Wearable Allâ€“Fabric Thermoelectric Generator. <i>Advanced Materials Technologies</i> , 2019, 4, 1800615.	3.0	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.	2.4	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.	7.8	76
12	Allâ€“Textile Triboelectric Generator Compatible with Traditional Textile Process. <i>Advanced Materials Technologies</i> , 2016, 1, 1600147.	3.0	75
13	Detection of Explosives via Photolytic Cleavage of Nitroesters and Nitramines. <i>Journal of Organic Chemistry</i> , 2011, 76, 2976-2993.	1.7	65
14	Melding Vapor-Phase Organic Chemistry and Textile Manufacturing To Produce Wearable Electronics. <i>Accounts of Chemical Research</i> , 2018, 51, 850-859.	7.6	65
15	Vapor-printed polymer electrodes for long-term, on-demand health monitoring. <i>Science Advances</i> , 2019, 5, eaaw0463.	4.7	64
16	Synthesis, Reactivity, and Electronic Properties of 6,6-Dicyanofulvenes. <i>Organic Letters</i> , 2010, 12, 5302-5305.	2.4	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.	2.7	41
18	Perspectiveâ€“Challenges in Developing Wearable Electrochemical Sensors for Longitudinal Health Monitoring. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037542.	1.3	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.	2.7	33
20	High Energy Density, Super-Deformable, Garment-Integrated Microsupercapacitors for Powering Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36834-36840.	4.0	32
21	On-site identification of ozone damage in fruiting plants using vapor-deposited conducting polymer tattoos. <i>Science Advances</i> , 2020, 6, .	4.7	32
22	Phyjama. , 2019, 3, 1-29.		31
23	Multimodal Smart Eyewear for Longitudinal Eye Movement Tracking. <i>Matter</i> , 2020, 3, 1275-1293.	5.0	30
24	Integrating a Semitransparent, Fullerene-Free Organic Solar Cell in Tandem with a BiVO ₄ Photoanode for Unassisted Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22449-22455.	4.0	24
25	High open-circuit voltage, high fill factor single-junction organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, 083304.	1.5	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.	1.5	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.	2.5	21
29	Thermally Polymerized Rylene Nanoparticles. <i>Macromolecules</i> , 2011, 44, 2276-2281.	2.2	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.	1.9	19
31	Vapor-Coated Monofilament Fibers for Embroidered Electrochemical Transistor Arrays on Fabrics. <i>Advanced Electronic Materials</i> , 2018, 4, 1800271.	2.6	18
32	Wash-stable, oxidation resistant conductive cotton electrodes for wearable electronics. <i>RSC Advances</i> , 2019, 9, 9198-9203.	1.7	17
33	The Future of Smart Textiles: User Interfaces and Health Monitors. <i>Matter</i> , 2020, 2, 794-795.	5.0	17
34	Orientation Control of Selected Organic Semiconductor Crystals Achieved by Monolayer Graphene Templates. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600621.	1.9	16
35	ITO-Free Transparent Organic Solar Cell with Distributed Bragg Reflector for Solar Harvesting Windows. <i>Energies</i> , 2017, 10, 707.	1.6	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.	1.3	15

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37	Enabling Longitudinal Respiration Monitoring Using Vapor-Coated Conducting Textiles. ACS Omega, 2021, 6, 31869-31875.	1.6	14
38	Flexible computational photodetectors for self-powered activity sensing. Npj Flexible Electronics, 2022, 6, .	5.1	14
39	Subwavelength nanopatterning of photochromic diarylethene films. Applied Physics Letters, 2012, 100, 183103.	1.5	11
40	Triplet exciton dissociation and electron extraction in graphene-templated pentacene observed with ultrafast spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 4809-4820.	1.3	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.	4.0	11
42	Observing Electron Extraction by Monolayer Graphene Using Time-Resolved Surface Photoresponse Measurements. ACS Nano, 2015, 9, 2510-2517.	7.3	10
43	Reverse-absorbance-modulation-optical lithography for optical nanopatterning at low light levels. AIP Advances, 2016, 6, 065312.	0.6	10
44	A comprehensive simulation model of the performance of photochromic films in absorbance-modulation-optical-lithography. AIP Advances, 2016, 6, .	0.6	9
45	Synthesis and Properties of Dithiocarbamate-Linked Acenes. Organic Letters, 2017, 19, 210-213.	2.4	8
46	Real-time and noninvasive detection of UV-Induced deep tissue damage using electrical tattoos. Biosensors and Bioelectronics, 2020, 150, 111909.	5.3	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.	3.3	8
48	Anomalous Paramagnetism in Closed-Shell Molecular Semiconductors. Journal of Physical Chemistry C, 2017, 121, 24929-24935.	1.5	7
49	Fluoropolymer-Wrapped Conductive Threads for Textile Touch Sensors Operating via the Triboelectric Effect. Fibers, 2018, 6, 41.	1.8	7
50	Self-discharge characteristics of vapor deposited polymer electrodes in an all-textile supercapacitor. Synthetic Metals, 2020, 268, 116483.	2.1	7
51	Immobilization of Nanobodies with Vapor-Deposited Polymer Encapsulation for Robust Biosensors. ACS Applied Polymer Materials, 2021, 3, 2561-2567.	2.0	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, .	1.5	6
54	Improved photovoltaic response of a near-infrared sensitive solar cell by a morphology-controlling seed layer. Organic Electronics, 2016, 33, 135-141.	1.4	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.	1.2	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, .	1.5	4
57	Reactive Vapor Deposition of Conjugated Polymer Films on Arbitrary Substrates. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
58	Solvent-Free Reactive Vapor Deposition for Functional Fabrics: Separating Oilâ€“Water Mixtures with Fabrics. <i>Fibers</i> , 2019, 7, 2.	1.8	4
59	A vapor printed electron-accepting conjugated polymer for textile optoelectronics. <i>Synthetic Metals</i> , 2019, 250, 1-6.	2.1	3
60	Biosensor Encapsulation via Photoinitiated Chemical Vapor Deposition (piCVD). <i>Journal of the Electrochemical Society</i> , 2021, 168, 077518.	1.3	3
61	Phyjama. <i>GetMobile (New York, N Y)</i> , 2020, 24, 33-37.	0.7	3
62	Largeâ€“Area Heteroepitaxial Nanostructuring of Molecular Semiconductor Films for Enhanced Optoelectronic Response in Flexible Electronics. <i>Advanced Functional Materials</i> , 0, , 2113085.	7.8	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.	1.5	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.	1.7	1
66	Sustainable polymer materials for flexible light control and thermal management. <i>Journal of Polymer Science</i> , 0, , .	2.0	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.	1.9	0
69	Broadband-absorbing polycyclic aromatic hydrocarbon composite films on topologically complex substrates. <i>Organic Electronics</i> , 2020, 85, 105862.	1.4	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, , .	0.2	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.	1.5	0