

Trisha L Andrew

List of Publications by Year in descending order

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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	Flexible computational photodetectors for self-powered activity sensing. Npj Flexible Electronics, 2022, 6, .	10.7	14
2	Perspective“Longitudinal Sleep Monitoring for All: Payoffs, Challenges and Outlook. , 2022, 1, 011602.		7
3	A Strategy for Accessing Nanobody-Based Electrochemical Sensors for Analyte Detection in Complex Media. , 2022, 1, 010601.		84
4	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
5	FabToys. , 2022, , .		2
6	PressION: An All-Fabric Piezoionic Pressure Sensor for Extracting Physiological Metrics in Both Static and Dynamic Contexts. Journal of the Electrochemical Society, 2021, 168, 017515.	2.9	15
7	Immobilization of Nanobodies with Vapor-Deposited Polymer Encapsulation for Robust Biosensors. ACS Applied Polymer Materials, 2021, 3, 2561-2567.	4.4	7
8	(Invited) Fabric Pressure Sensors for Longitudinal Monitoring of Human Motion in Natural Environments. ECS Meeting Abstracts, 2021, MA2021-01, 1387-1387.	0.0	0
9	Chemometrics and Signal Processing-Assisted Design of a Textile-Based Colorimetric Sensing Platform for Real-Time Monitoring of Glucose. ECS Meeting Abstracts, 2021, MA2021-01, 1319-1319.	0.0	0
10	(IMCS First Place Best Poster Award) Encapsulation through Photoinitiated Chemical Vapor Phase Deposition (piCVD) for Obtaining Antifouling and Stabilized Biosensing Interface. ECS Meeting Abstracts, 2021, MA2021-01, 1655-1655.	0.0	0
11	All-Fabric Piezoionic Sensor for Simultaneous Sensing of Static and Dynamic Pressures. ECS Meeting Abstracts, 2021, MA2021-01, 1354-1354.	0.0	0
12	On-Site Longitudinal Monitoring of Crop Health Using Vapor-Printed Polymer Tattoos. ECS Meeting Abstracts, 2021, MA2021-01, 1543-1543.	0.0	0
13	Biosensor Encapsulation via Photoinitiated Chemical Vapor Deposition (piCVD). Journal of the Electrochemical Society, 2021, 168, 077518.	2.9	3
14	An Aqueous Eutectic Electrolyte for Low-Cost, Safe Energy Storage with an Operational Temperature Range of 150 Å°C, from Å70 to 80Å°C. Journal of Physical Chemistry C, 2021, 125, 246-251.	3.1	22
15	Facile Fabrication of Stable Enzyme-Based Colorimetric Glucose Biosensor on Cotton Using Polymer Entrapment. ECS Meeting Abstracts, 2021, MA2021-02, 1885-1885.	0.0	1
16	Enabling Longitudinal Respiration Monitoring Using Vapor-Coated Conducting Textiles. ACS Omega, 2021, 6, 31869-31875.	3.5	14
17	(Invited) Immobilization of Nanobodies with Vapor-Deposited Polymer Encapsulation for Robust Biosensors. ECS Meeting Abstracts, 2021, MA2021-02, 1645-1645.	0.0	0
18	Materials Selection Principles for Sensing Human Motion and Physiological Signals Via Textiles. ECS Meeting Abstracts, 2021, MA2021-02, 1585-1585.	0.0	0

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19	Garment-integrated thermoelectric generator arrays for wearable body heat harvesting. <i>Flexible and Printed Electronics</i> , 2021, 6, 044006.	2.7	0
20	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
21	Wearable Sensors for Monitoring Human Motion: A Review on Mechanisms, Materials, and Challenges. <i>SLAS Technology</i> , 2020, 25, 9-24.	1.9	106
22	Real-time and noninvasive detection of UV-Induced deep tissue damage using electrical tattoos. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111909.	10.1	8
23	Guaiazulene revisited: a new material for green-processed optoelectronics. <i>Polymer Chemistry</i> , 2020, 11, 7656-7661.	3.9	0
24	Multimodal Smart Eyewear for Longitudinal Eye Movement Tracking. <i>Matter</i> , 2020, 3, 1275-1293.	10.0	30
25	On-site identification of ozone damage in fruiting plants using vapor-deposited conducting polymer tattoos. <i>Science Advances</i> , 2020, 6, .	10.3	32
26	Broadband-absorbing polycyclic aromatic hydrocarbon composite films on topologically complex substrates. <i>Organic Electronics</i> , 2020, 85, 105862.	2.6	0
27	Self-discharge characteristics of vapor deposited polymer electrodes in an all-textile supercapacitor. <i>Synthetic Metals</i> , 2020, 268, 116483.	3.9	7
28	Perspective—Challenges in Developing Wearable Electrochemical Sensors for Longitudinal Health Monitoring. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037542.	2.9	35
29	The Future of Smart Textiles: User Interfaces and Health Monitors. <i>Matter</i> , 2020, 2, 794-795.	10.0	17
30	(Invited) Electrical Properties of Vapor-Deposited Organic Semiconductor Nanowires By Conductive Atomic Force Microscopy. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1054-1054.	0.0	0
31	Vapor-Phase Dehydrogenative Synthesis of Polycyclic Aromatic Hydrocarbons for Garment-Integrated Solar Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 902-902.	0.0	0
32	Self-Discharge Characteristics of Vapor Deposited Polymer Electrodes in an All-Textile Supercapacitor. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2-2.	0.0	0
33	(Invited) Sensing Human Behavior with Smart Garments. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2005-2005.	0.0	0
34	Phyjama. <i>GetMobile (New York, N Y)</i> , 2020, 24, 33-37.	1.0	3
35	An Aqueous Electrolyte for Fast Energy Storage at -70oC. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 789-789.	0.0	0
36	Phyjama. , 2019, 3, 1-29.		31

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37	A Wearable All-Fabric Thermoelectric Generator. <i>Advanced Materials Technologies</i> , 2019, 4, 1800615.	5.8	100
38	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
39	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
40	Solvent-Free Reactive Vapor Deposition for Functional Fabrics: Separating Oil-Water Mixtures with Fabrics. <i>Fibers</i> , 2019, 7, 2.	4.0	4
41	Wash-stable, oxidation resistant conductive cotton electrodes for wearable electronics. <i>RSC Advances</i> , 2019, 9, 9198-9203.	3.6	17
42	Vapor-printed polymer electrodes for long-term, on-demand health monitoring. <i>Science Advances</i> , 2019, 5, eaaw0463.	10.3	64
43	A vapor printed electron-accepting conjugated polymer for textile optoelectronics. <i>Synthetic Metals</i> , 2019, 250, 1-6.	3.9	3
44	(Invited) Garment Integrated Sensors Created Using Reactive Vapor Deposition. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
45	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
46	Reactive Vapor Deposition of Conjugated Polymer Films on Arbitrary Substrates. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
47	Fabric as a Sensor. , 2018, , .		22
48	Fluoropolymer-Wrapped Conductive Threads for Textile Touch Sensors Operating via the Triboelectric Effect. <i>Fibers</i> , 2018, 6, 41.	4.0	7
49	High Energy Density, Super-Deformable, Garment-Integrated Microsupercapacitors for Powering Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36834-36840.	8.0	32
50	Using the Surface Features of Plant Matter to Create All-Polymer Pseudocapacitors with High Areal Capacitance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38574-38580.	8.0	11
51	Vapor-Coated Monofilament Fibers for Embroidered Electrochemical Transistor Arrays on Fabrics. <i>Advanced Electronic Materials</i> , 2018, 4, 1800271.	5.1	18
52	Triplet exciton dissociation and electron extraction in graphene-templated pentacene observed with ultrafast spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4809-4820.	2.8	11
53	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
54	Rugged Textile Electrodes for Wearable Devices Obtained by Vapor Coating Off-the-Shelf, Plain-Woven Fabrics. <i>Advanced Functional Materials</i> , 2017, 27, 1700415.	14.9	76

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55	Integrating a Semitransparent, Fullerene-Free Organic Solar Cell in Tandem with a BiVO ₄ Photoanode for Unassisted Solar Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 22449-22455.	8.0	24
56	Towards seamlessly-integrated textile electronics: methods to coat fabrics and fibers with conducting polymers for electronic applications. Chemical Communications, 2017, 53, 7182-7193.	4.1	118
57	Synthesis and Properties of Dithiocarbamate-Linked Acenes. Organic Letters, 2017, 19, 210-213.	4.6	8
58	Anomalous Paramagnetism in Closed-Shell Molecular Semiconductors. Journal of Physical Chemistry C, 2017, 121, 24929-24935.	3.1	7
59	Origin of high open-circuit voltage in a planar heterojunction solar cell containing a non-fullerene acceptor. Applied Physics Letters, 2017, 111, .	3.3	4
60	Deposition Dependent Ion Transport in Doped Conjugated Polymer Films: Insights for Creating High-Performance Electrochemical Devices. Advanced Materials Interfaces, 2017, 4, 1700873.	3.7	19
61	Transforming Commercial Textiles and Threads into Sewable and Weavable Electric Heaters. ACS Applied Materials & Interfaces, 2017, 9, 32299-32307.	8.0	128
62	ITO-Free Transparent Organic Solar Cell with Distributed Bragg Reflector for Solar Harvesting Windows. Energies, 2017, 10, 707.	3.1	16
63	A comprehensive simulation model of the performance of photochromic films in absorbance-modulation-optical-lithography. AIP Advances, 2016, 6, .	1.3	9
64	Reverse-absorbance-modulation-optical lithography for optical nanopatterning at low light levels. AIP Advances, 2016, 6, 065312.	1.3	10
65	All-Textile Triboelectric Generator Compatible with Traditional Textile Process. Advanced Materials Technologies, 2016, 1, 1600147.	5.8	75
66	Orientation Control of Selected Organic Semiconductor Crystals Achieved by Monolayer Graphene Templates. Advanced Materials Interfaces, 2016, 3, 1600621.	3.7	16
67	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
68	Observing Electron Extraction by Monolayer Graphene Using Time-Resolved Surface Photoresponse Measurements. ACS Nano, 2015, 9, 2510-2517.	14.6	10
69	Restricting the γ Torsion Angle Has Stereoelectronic Consequences on a Scissile Bond: An Electronic Structure Analysis. Biochemistry, 2015, 54, 5748-5756.	2.5	4
70	High open-circuit voltage, high fill factor single-junction organic solar cells. Applied Physics Letters, 2014, 105, 083304.	3.3	23
71	Patterning via Optical Saturable Transitions - Fabrication and Characterization. Journal of Visualized Experiments, 2014, , .	0.3	0
72	Effect of synthetic accessibility on the commercial viability of organic photovoltaics. Energy and Environmental Science, 2013, 6, 711.	30.8	288

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73	Nanopatterning of diarylethene films via selective dissolution of one photoisomer. Applied Physics Letters, 2013, 103, .	3.3	6
74	Subwavelength nanopatterning of photochromic diarylethene films. Applied Physics Letters, 2012, 100, 183103.	3.3	11
75	Improving the Performance of P3HTâ€‘Fullerene Solar Cells with Side-Chain-Functionalized Poly(thiophene) Additives: A New Paradigm for Polymer Design. ACS Nano, 2012, 6, 3044-3056.	14.6	123
76	Detection of Explosives via Photolytic Cleavage of Nitroesters and Nitramines. Journal of Organic Chemistry, 2011, 76, 2976-2993.	3.2	65
77	Thermally Polymerized Rylene Nanoparticles. Macromolecules, 2011, 44, 2276-2281.	4.8	19
78	Structureâ€‘Property relationships for exciton transfer in conjugated polymers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 476-498.	2.1	91
79	Photoluminescent energy transfer from poly(phenyleneethynylene)s to nearâ€‘infrared emitting fluorophores. Journal of Polymer Science Part A, 2010, 48, 3382-3391.	2.3	21
80	Synthesis, Reactivity, and Electronic Properties of 6,6-Dicyanofulvenes. Organic Letters, 2010, 12, 5302-5305.	4.6	59
81	Confining Light to Deep Subwavelength Dimensions to Enable Optical Nanopatterning. Science, 2009, 324, 917-921.	12.6	220
82	A Fluorescence Turn-On Mechanism to Detect High Explosives RDX and PETN. Journal of the American Chemical Society, 2007, 129, 7254-7255.	13.7	214
83	Sustainable polymer materials for flexible light control and thermal management. Journal of Polymer Science, 0, , .	3.8	1
84	Largeâ€‘Area Heteroepitaxial Nanostructuring of Molecular Semiconductor Films for Enhanced Optoelectronic Response in Flexible Electronics. Advanced Functional Materials, 0, , 2113085.	14.9	2