

# Ana Claudia Arias

## List of Publications by Citations

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74  
papers

6,480  
citations

34  
h-index

79  
g-index

79  
ext. papers

7,599  
ext. citations

11.3  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
74	Materials and applications for large area electronics: solution-based approaches. <i>Chemical Reviews</i> , <b>2010</b> , 110, 3-24	68.1	1510
73	Monitoring of Vital Signs with Flexible and Wearable Medical Devices. <i>Advanced Materials</i> , <b>2016</b> , 28, 4373-4395	17.4	735
72	All-organic optoelectronic sensor for pulse oximetry. <i>Nature Communications</i> , <b>2014</b> , 5, 5745	17.4	429
71	Flexible and stretchable power sources for wearable electronics. <i>Science Advances</i> , <b>2017</b> , 3, e1602051	14.3	240
70	A New Frontier of Printed Electronics: Flexible Hybrid Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905279	14.3	222
69	Charge Generation Kinetics and Transport Mechanisms in Blended Polyfluorene Photovoltaic Devices. <i>Nano Letters</i> , <b>2002</b> , 2, 1353-1357	11.5	205
68	Highly flexible, printed alkaline batteries based on mesh-embedded electrodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 3251-5	24	196
67	Flexible Hybrid Electronics: Direct Interfacing of Soft and Hard Electronics for Wearable Health Monitoring. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8764-8775	15.6	178
66	All-printed flexible organic transistors enabled by surface tension-guided blade coating. <i>Advanced Materials</i> , <b>2014</b> , 26, 5722-7	24	178
65	High Detectivity All-Printed Organic Photodiodes. <i>Advanced Materials</i> , <b>2015</b> , 27, 6411-7	24	147
64	High-performance flexible energy storage and harvesting system for wearable electronics. <i>Scientific Reports</i> , <b>2016</b> , 6, 26122	4.9	146
63	A High Areal Capacity Flexible Lithium-Ion Battery with a Strain-Compliant Design. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401389	21.8	142
62	Organic solar cells and fully printed super-capacitors optimized for indoor light energy harvesting. <i>Nano Energy</i> , <b>2016</b> , 26, 631-640	17.1	131
61	A flexible organic reflectance oximeter array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E11015-E11024	11.5	128
60	Impedance sensing device enables early detection of pressure ulcers in vivo. <i>Nature Communications</i> , <b>2015</b> , 6, 6575	17.4	127
59	Recent Progress on Printed Flexible Batteries: Mechanical Challenges, Printing Technologies, and Future Prospects. <i>Energy Technology</i> , <b>2015</b> , 3, 305-328	3.5	125
58	Screen-printed flexible MRI receive coils. <i>Nature Communications</i> , <b>2016</b> , 7, 10839	17.4	102

57	Inkjet-Printed Flexible Gold Electrode Arrays for Bioelectronic Interfaces. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1004-1013	15.6	100
56	Charge-integrating organic heterojunction phototransistors for wide-dynamic-range image sensors. <i>Nature Photonics</i> , <b>2017</b> , 11, 193-199	33.9	95
55	A wearable biosensing system with in-sensor adaptive machine learning for hand gesture recognition. <i>Nature Electronics</i> , <b>2021</b> , 4, 54-63	28.4	90
54	Identifying orthogonal solvents for solution processed organic transistors. <i>Organic Electronics</i> , <b>2016</b> , 30, 18-29	3.5	69
53	Screen printed passive components for flexible power electronics. <i>Scientific Reports</i> , <b>2015</b> , 5, 15959	4.9	69
52	Flexible Blade-Coated Multicolor Polymer Light-Emitting Diodes for Optoelectronic Sensors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606206	24	67
51	Printed and flexible biosensor for antioxidants using interdigitated ink-jetted electrodes and gravure-deposited active layer. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 553-9	11.8	66
50	Organic inkjet-patterned memory array based on ferroelectric field-effect transistors. <i>Organic Electronics</i> , <b>2011</b> , 12, 2012-2018	3.5	65
49	Fabrication of a High-Performance Flexible Silver/Zinc Wire Battery. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500296	6.4	52
48	Efficient light harvesting in a photovoltaic diode composed of a semiconductor conjugated copolymer blend. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2204-2206	3.4	50
47	A robust, gravure-printed, silver nanowire/metal oxide hybrid electrode for high-throughput patterned transparent conductors. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3248-3255	7.1	47
46	Perylene Polyimide-Polyether Anodes for Aqueous All-Organic Polymer Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 7199-7205	6.1	43
45	All-printed full-color pixel organic photodiode array with a single active layer. <i>Organic Electronics</i> , <b>2018</b> , 56, 139-145	3.5	42
44	All ink-jet printed polyfluorene photosensor for high illuminance detection. <i>Organic Electronics</i> , <b>2011</b> , 12, 682-685	3.5	40
43	Understanding the Effects of Electrode Formulation on the Mechanical Strength of Composite Electrodes for Flexible Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6390-6400	9.5	39
42	Exciton and polaron dynamics in a step-ladder polymeric semiconductor: the influence of interchain order. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 9803-9824	1.8	37
41	Solution-Processed Memristive Junctions Used in a Threshold Indicator. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 3435-3443	2.9	33
40	Printed, Flexible Lactate Sensors: Design Considerations Before Performing On-Body Measurements. <i>Scientific Reports</i> , <b>2019</b> , 9, 13720	4.9	32

39	. <i>IEEE Access</i> , <b>2019</b> , 7, 128114-128124	3.5	31
38	Single-walled carbon nanotube transparent conductive films fabricated by reductive dissolution and spray coating for organic photovoltaics. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 253301	3.4	31
37	A potentiometric mechanotransduction mechanism for novel electronic skins. <i>Science Advances</i> , <b>2020</b> , 6, eaba1062	14.3	28
36	Large-Area Fabrication of High-Performance Flexible and Wearable Pressure Sensors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901310	6.4	27
35	Tin Oxide as a Cathode in Organic Light-Emitting Diodes. <i>Advanced Materials</i> , <b>1998</b> , 10, 392-394	24	26
34	Materials and methods for higher performance screen-printed flexible MRI receive coils. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 775-783	4.4	21
33	Evaluation of a Flexible 12-Channel Screen-printed Pediatric MRI Coil. <i>Radiology</i> , <b>2019</b> , 291, 180-185	20.5	20
32	Emission Area Patterning of Organic Light-Emitting Diodes (OLEDs) via Printed Dielectrics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802986	15.6	20
31	A Single-Mode, Self-Adapting, and Self-Powered Mechanoreceptor Based on a Potentiometric-Triboelectric Hybridized Sensing Mechanism for Resolving Complex Stimuli. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005970	24	20
30	High efficiency polymer photodiodes. <i>Synthetic Metals</i> , <b>1999</b> , 102, 957-958	3.6	17
29	Pulse Oximetry Using Organic Optoelectronics under Ambient Light. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1901122	6.8	16
28	Printed Receive Coils with High Acoustic Transparency for Magnetic Resonance Guided Focused Ultrasound. <i>Scientific Reports</i> , <b>2018</b> , 8, 3392	4.9	16
27	Synthesis and Solar Cell Application of New Alternating Donor-Acceptor Copolymers Based on Variable Units of Fluorene, Thiophene, and Phenylene. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 18641-18648	3.8	16
26	A conjugated polymer-based voltage-regulator device. <i>Advanced Materials</i> , <b>1997</b> , 9, 972-974	24	16
25	Jet-Printed Active-Matrix Backplanes and Electrophoretic Displays. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 1363-1369	1.4	16
24	Empirically based device modeling of bulk heterojunction organic photovoltaics. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 154506	2.5	15
23	A Potentiometric Electronic Skin for Thermosensation and Mechanosensation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010824	15.6	13
22	Optimization of printed sensors to monitor sodium, ammonium, and lactate in sweat. <i>APL Materials</i> , <b>2020</b> , 8, 100905	5.7	12

21	Printed Flexible Organic Transistors with Tunable Aspect Ratios. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901207	6.4	11
20	Stencil-printed Lithium-ion micro batteries for IoT applications. <i>Nano Energy</i> , <b>2021</b> , 82, 105666	17.1	11
19	A Platform to Study the Effects of Electrical Stimulation on Immune Cell Activation During Wound Healing. <i>Advanced Biology</i> , <b>2019</b> , 3, e1900106	3.5	10
18	Highly Flexible Transparent Micromesh Electrodes via Blade-Coated Polymer Networks for Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31687-31695	9.5	10
17	Wireless User-Generic Ear EEG. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 727-737	5.1	10
16	Fabrication and Characterization of Flexible Spray-Coated Antennas. <i>IEEE Access</i> , <b>2018</b> , 6, 62050-62061	3.5	10
15	Local electrochemical control of hydrogel microactuators in microfluidics. <i>Journal of Micromechanics and Microengineering</i> , <b>2018</b> , 28, 105005	2	9
14	Electrode Composite for Flexible Zinc-Manganese Dioxide Batteries through In Situ Polymerization of Polymer Hydrogel. <i>Energy Technology</i> , <b>2020</b> , 8, 1901165	3.5	7
13	Characterization and Comparison of Biodegradable Printed Capacitive Humidity Sensors. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
12	Tuning Strain Sensor Performance via Programmed Thin-Film Crack Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38105-38113	9.5	4
11	A Wireless, Multielectrode, User-generic Ear EEG Recording System <b>2019</b> ,		3
10	System design for organic pulse oximeter <b>2015</b> ,		2
9	Applications of Printed Batteries <b>2018</b> , 144-184		2
8	The Road Towards Large-Area Electronics Without Vacuum Tools. <i>ECS Transactions</i> , <b>2006</b> , 3, 229-236	1	2
7	Towards Wireless Flexible Printed Wearable Sensors <b>2019</b> ,		1
6	Timing Randomly Spaced Events Using the Threshold-Voltage Shift in Disordered Semiconductors. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 3367-3374	2.9	1
5	Quantitative anatomy mimicking slice phantoms. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1159-1166	4.4	1
4	Flexible Blade-Coated Optoelectronic Devices: Dual Functionality via Simultaneous Deposition. <i>Advanced Functional Materials</i> , 2112343	15.6	1

- 3 Printed Potentiometric Nitrate Sensors for Use in Soil. *Sensors*, **2022**, 22, 4095 3.8 1
- 2 Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *IEEE Internet of Things Journal*, **2021**, 8, 10047-10051 10.7 0
- 1 High-Conductivity Solution-Processed Carbon Nanotube Networks as Transparent Electrodes in Organic Solar Cells. *Materials Research Society Symposia Proceedings*, **2013**, 1537, 1