

# Robert A Nawrocki

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

658  
citations

933447

10  
h-index

839539

18  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1079  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mini Review of Neuromorphic Architectures and Implementations. IEEE Transactions on Electron Devices, 2016, 63, 3819-3829.	3.0	152
2	Self-Adhesive and Ultra-Conformable, Sub-300 nm Dry Thin-Film Electrodes for Surface Monitoring of Biopotentials. Advanced Functional Materials, 2018, 28, 1803279.	14.9	136
3	300-nm Imperceptible, Ultraflexible, and Biocompatible e-Skin Fit with Tactile Sensors and Organic Transistors. Advanced Electronic Materials, 2016, 2, 1500452.	5.1	120
4	A Review of the Progress of Thin-Film Transistors and Their Technologies for Flexible Electronics. Micromachines, 2021, 12, 655.	2.9	51
5	Super- and Ultrathin Organic Field-Effect Transistors: from Flexibility to Super- and Ultraflexibility. Advanced Functional Materials, 2019, 29, 1906908.	14.9	35
6	Neurons in Polymer: Hardware Neural Units Based on Polymer Memristive Devices and Polymer Transistors. IEEE Transactions on Electron Devices, 2014, 61, 3513-3519.	3.0	22
7	Fabrication of poly(3-hexylthiophene) nanowires for high-mobility transistors. Organic Electronics, 2016, 30, 92-98.	2.6	16
8	Organic electronics Axon-Hillock neuromorphic circuit: towards biologically compatible, and physically flexible, integrate-and-fire spiking neural networks. Journal Physics D: Applied Physics, 2021, 54, 104004.	2.8	16
9	Modeling of the electrical characteristics of an organic field effect transistor in presence of the bending effects. Organic Electronics, 2021, 88, 106000.	2.6	15
10	An inverted, organic WORM device based on PEDOT:PSS with very low turn-on voltage. Organic Electronics, 2014, 15, 1791-1798.	2.6	14
11	Artificial neural network performance degradation under network damage: Stuck-at faults. , 2011, , .		11
12	Characterization of 3D printed pneumatic soft actuator. Sensors and Actuators A: Physical, 2022, 334, 113337.	4.1	9
13	Modeling of an Internal Stress and Strain Distribution of an Inverted Staggered Thin-Film Transistor Based on Two-Dimensional Mass-Spring-Damper Structure. CMES - Computer Modeling in Engineering and Sciences, 2020, 125, 515-539.	1.1	8
14	Structured Computational Polymers for a soft robot: Actuation and cognition. , 2011, , .		7
15	Simulating Hardware Neural Networks with Organic Memristors and Organic Field Effect Transistors. , 2010, , 477-484.		7
16	A neuromorphic architecture from single transistor neurons with organic bistable devices for weights. , 2011, , .		6
17	Morphing Bus: A New Paradigm in Peripheral Interconnect Bus. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 341-351.	2.5	6
18	Global Sustainability through Closed-Loop Precision Animal Agriculture. Mechanical Engineering, 2018, 140, S19-S23.	0.1	4

#	ARTICLE	IF	CITATIONS
19	Monitoring Artificial Neural Network Performance Degradation under Network Damage. , 2010, , 97-104.		4
20	Organic Log $\epsilon$ Domain Integrator Synapse. Advanced Electronic Materials, 2022, 8, 2100724.	5.1	4
21	Towards an all-polymer robot for search and rescue. , 2009, , .		3
22	Enhancement of Charge Transport in Polythiophene Semiconducting Polymer by Blending with Graphene Nanoparticles. ChemPlusChem, 2019, 84, 1366-1374.	2.8	3
23	Polymer and Nanoparticle-Composite Bistable Devices: Physics of Operation and Initial Applications. , 2012, , 291-314.		2
24	NUCLEOs: Toward Rapid-Prototyping of Robotic Materials That Can Sense, Think and Act. , 2018, , .		2
25	Impedimetric, PEDOT:PSS-Based Organic Electrochemical Sensor for Detection of Histamine for Precision Animal Agriculture. , 2020, 4, 1-4.		2
26	Monitoring Performance Degradation of Cerebellar Functions Using Computational Neuroscience Methods: Implications on Neurological Diseases. PLoS ONE, 2012, 7, e45581.	2.5	1
27	Enhancement of Closed-Loop Gain of Organic Amplifiers Using Double Gate Structures. IEEE Electron Device Letters, 2016, , 1-1.	3.9	1
28	Effect Of Additive Manufacturing On $\beta$ -Phase Poly(vinylidene fluoride) Based Capacitive Temperature Sensors. Advanced Engineering Materials, 0, , .	3.5	1
29	Structured computational polymers for safety, security, and rescue robotics. , 2011, , .		0
30	Lessons Learned the Hard Way. , 2020, , .		0
31	Wireless Electrical Power to Sub-millimeter Robots. Lecture Notes in Computer Science, 2012, , 301-312.	1.3	0
32	Organic Electrochemical, PEDOT:PSS-Based Impedimetric Histamine Sensor. ECS Meeting Abstracts, 2020, MA2020-01, 2225-2225.	0.0	0