

# Daniel J Joe

## List of Publications by Year in descending order

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34  
papers

2,097  
citations

394421

19  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

3235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors. <i>Advanced Materials</i> , 2017, 29, 1702308.	21.0	495
2	Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester. <i>Advanced Energy Materials</i> , 2016, 6, 1600237.	19.5	179
3	In Vivo Self-Powered Wireless Transmission Using Biocompatible Flexible Energy Harvesters. <i>Advanced Functional Materials</i> , 2017, 27, 1700341.	14.9	160
4	Laser-Material Interactions for Flexible Applications. <i>Advanced Materials</i> , 2017, 29, 1606586.	21.0	132
5	Machine learning-based self-powered acoustic sensor for speaker recognition. <i>Nano Energy</i> , 2018, 53, 658-665.	16.0	121
6	Performance-enhanced triboelectric nanogenerator enabled by wafer-scale nanogrates of multistep pattern downscaling. <i>Nano Energy</i> , 2017, 35, 415-423.	16.0	120
7	Skin-Like Oxide Thin-Film Transistors for Transparent Displays. <i>Advanced Functional Materials</i> , 2016, 26, 6170-6178.	14.9	118
8	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , 2017, 27, 1701138.	14.9	98
9	Reliable Memristive Switching Memory Devices Enabled by Densely Packed Silver Nanocone Arrays as Electric-Field Concentrators. <i>ACS Nano</i> , 2016, 10, 9478-9488.	14.6	90
10	Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator. <i>Advanced Materials</i> , 2018, 30, e1800649.	21.0	88
11	Performance improvement of flexible piezoelectric energy harvester for irregular human motion with energy extraction enhancement circuit. <i>Nano Energy</i> , 2019, 58, 211-219.	16.0	88
12	Basilar membrane-inspired self-powered acoustic sensor enabled by highly sensitive multi tunable frequency band. <i>Nano Energy</i> , 2018, 53, 198-205.	16.0	85
13	Simultaneous Roll Transfer and Interconnection of Flexible Silicon NAND Flash Memory. <i>Advanced Materials</i> , 2016, 28, 8371-8378.	21.0	53
14	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , 2018, 51, 102-112.	16.0	37
15	Flash-Induced Stretchable Cu Conductor via Multiscale-Interfacial Couplings. <i>Advanced Science</i> , 2018, 5, 1801146.	11.2	36
16	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. <i>Nature Biotechnology</i> , 2015, 33, 656-660.	17.5	30
17	Stress-based resonant volatile gas microsensor operated near the critically buckled state. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	27
18	Xenon Flash Lamp-Induced Ultrafast Multilayer Graphene Growth. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600429.	2.3	26

#	ARTICLE	IF	CITATIONS
19	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. <i>Scientific Reports</i> , 2018, 8, 10989.	3.3	24
20	Surface energy approach and AFM verification of the (CF)n-treated surface effect and its correlation with adhesion reduction in microvalves. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 085017.	2.6	17
21	Rapid Prototyping of Nanofluidic Systems Using Size-Reduced Electrospun Nanofibers for Biomolecular Analysis. <i>Small</i> , 2010, 6, 2420-2426.	10.0	14
22	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 144-151.	0.9	12
23	Real-time synchronous imaging of electromechanical resonator mode and equilibrium profiles. <i>Optics Letters</i> , 2010, 35, 2654.	3.3	10
24	Siloxane Hybrid Material-Encapsulated Highly Robust Flexible $\frac{1}{4}$ LEDs for Biocompatible Lighting Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28258-28269.	8.0	9
25	Autonomous Microcapillary Drug Delivery System Self-Powered by a Flexible Energy Harvester. <i>Advanced Materials Technologies</i> , 2021, 6, 2100526.	5.8	7
26	ACF-packaged ultrathin Si-based flexible NAND flash memory. , 2015, , .		6
27	Self-Powered Devices: Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester ( <i>Adv. Energy Mater.</i> 13/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	4
28	Piezoelectric Sensors: Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors ( <i>Adv. Mater.</i> 37/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	4
29	Transparent Displays: Skin-Like Oxide Thin-Film Transistors for Transparent Displays ( <i>Adv. Funct. Mater.</i> 14/2014). <i>Advanced Functional Materials</i> , 2014, 24, 1400014.	14.5	3
30	Light-Emitting Diodes: Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator ( <i>Adv. Mater.</i> 28/2018). <i>Advanced Materials</i> , 2018, 30, 1870208.	21.0	2
31	Synchronous imaging for rapid visualization of complex vibration profiles in electromechanical microresonators. <i>Journal of Applied Physics</i> , 2012, 111, 023507.	2.5	1
32	A bio-inspired spatial patterning circuit. , 2014, 2014, 86-9.		0
33	AFM Verification of CFn Surface Treatment Effect and Its Correlation to Stiction Reduction in Microvalves. , 2008, , .		0
34	Abstract 2891: Chemokine-targeted models of human orthotopic colorectal cancer in immunocompetent mice. , 2015, , .		0