

Nazek El-Atab

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

612
citations

16
h-index

23
g-index

67
ext. papers

843
ext. citations

6.5
avg, IF

4.48
L-index

#	Paper	IF	Citations
51	Structural engineering approach for designing foil-based flexible capacitive pressure sensors. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
50	Toward nanotechnology-enabled face masks against SARS-CoV-2 and pandemic respiratory diseases. <i>Nanotechnology</i> , 2021 , 33,	3.4	3
49	Recent Progress on Flexible Capacitive Pressure Sensors: From Design and Materials to Applications. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001023	6.8	26
48	Flexible Capacitive Pressure Sensors: Recent Progress on Flexible Capacitive Pressure Sensors: From Design and Materials to Applications (Adv. Mater. Technol. 4/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170023	6.8	1
47	A Robust Wearable Point-of-Care CNT-Based Strain Sensor for Wirelessly Monitoring Throat-Related Illnesses. <i>Advanced Functional Materials</i> , 2021 , 31, 2103375	15.6	22
46	Flexible Nanoporous Template for the Design and Development of Reusable Anti-COVID-19 Hydrophobic Face Masks. <i>ACS Nano</i> , 2020 , 14, 7659-7665	16.7	85
45	Nature-inspired spherical silicon solar cell for three-dimensional light harvesting, improved dust and thermal management. <i>MRS Communications</i> , 2020 , 10, 391-397	2.7	1
44	Water Quality Monitoring: Heterogeneous Cubic Multidimensional Integrated Circuit for Water and Food Security in Fish Farming Ponds (Small 4/2020). <i>Small</i> , 2020 , 16, 2070023	11	
43	Polymer/paper-based double touch mode capacitive pressure sensing element for wireless control of robotic arm 2020 ,		1
42	Heterogeneous Cubic Multidimensional Integrated Circuit for Water and Food Security in Fish Farming Ponds. <i>Small</i> , 2020 , 16, e1905399	11	6
41	Pressure-Driven Two-Input 3D Microfluidic Logic Gates. <i>Advanced Science</i> , 2020 , 7, 1903027	13.6	5
40	Ultraflexible Corrugated Monocrystalline Silicon Solar Cells with High Efficiency (19%), Improved Thermal Performance, and Reliability Using Low-Cost Laser Patterning. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2269-2275	9.5	12
39	Basics of memory devices 2020 , 1-22		
38	Overview of charge trapping memory devices tunnel band engineering 2020 , 23-44		
37	Overview of charge trapping memory devices charge trapping layer engineering 2020 , 45-66		
36	Atomic layer deposition based nano-island growth 2020 , 67-106		
35	Laser ablated nanoparticles synthesis 2020 , 107-131		

34	Agglomeration-based nanoparticle fabrication 2020 , 133-153		0
33	Scalability of nano-island based memory devices 2020 , 155-174		1
32	Personalized Healthcare: Expandable Polymer Assisted Wearable Personalized Medicinal Platform (Adv. Mater. Technol. 10/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070064	6.8	
31	Flexible High-Efficiency Corrugated Monocrystalline Silicon Solar Cells for Application in Small Unmanned Aerial Vehicles for Payload Transportation. <i>Energy Technology</i> , 2020 , 8, 2000670	3.5	2
30	Soft Actuators for Soft Robotic Applications: A Review. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2070102	6	20
29	Soft Actuators for Soft Robotic Applications: A Review. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000128	6	81
28	Expandable Polymer Assisted Wearable Personalized Medicinal Platform. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000411	6.8	4
27	Flexible and stretchable inorganic solar cells: Progress, challenges, and opportunities. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	3
26	Bi-Facial Substrates Enabled Heterogeneous Multi-Dimensional Integrated Circuits (MD-IC) for Internet of Things (IoT) Applications. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900043	3.5	8
25	Nano-scale transistors for interfacing with brain: design criteria, progress and prospect. <i>Nanotechnology</i> , 2019 , 30, 442001	3.4	4
24	Corrugation Enabled Asymmetrically Ultrastretchable (95%) Monocrystalline Silicon Solar Cells with High Efficiency (19%). <i>Advanced Energy Materials</i> , 2019 , 9, 1902883	21.8	19
23	Heterogeneous Multi-Dimensional Integrated Circuit for Internet-of-Things Application 2019 ,		1
22	High-Efficiency Corrugated Monocrystalline Silicon Solar Cells with Multi-Directional Flexing Capabilities 2019 ,		1
21	AI Powered Unmanned Aerial Vehicle for Payload Transport Application 2019 ,		4
20	The Future of CMOS: More Moore or a New Disruptive Technology? 2018 , 1-31		2
19	Cubic-phase zirconia nano-island growth using atomic layer deposition and application in low-power charge-trapping nonvolatile-memory devices. <i>Nanotechnology</i> , 2017 , 28, 445201	3.4	15
18	. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1143-1146	2.6	9
17	1D versus 3D quantum confinement in 1-5 nm ZnO nanoparticle agglomerations for application in charge-trapping memory devices. <i>Nanotechnology</i> , 2016 , 27, 275205	3.4	16

16	Enhanced performance of thin-film amorphous silicon solar cells with a top film of 2.85 nm silicon nanoparticles. <i>Solar Energy</i> , 2016 , 125, 332-338	6.8	21
15	~3-nm ZnO Nanoislands Deposition and Application in Charge Trapping Memory Grown by Single ALD Step. <i>Scientific Reports</i> , 2016 , 6, 38712	4.9	22
14	Growth of ~3-nm ZnO nano-islands using Atomic Layer Deposition 2016 ,		1
13	Enhanced non-volatile memory characteristics with quattro-layer graphene nanoplatelets vs. 2.85-nm Si nanoparticles with asymmetric Al ₂ O ₃ /HfO ₂ tunnel oxide. <i>Nanoscale Research Letters</i> , 2015 , 10, 957	5	21
12	Memory effect by charging of ultra-small 2-nm laser-synthesized solution processable Si-nanoparticles embedded in Si/Al ₂ O ₃ /BiO ₂ structure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1751-1755	1.6	13
11	MOS memory with ultrathin Al ₂ O ₃ -TiO ₂ nanolaminates tunnel oxide and 2.85-nm Si-nanoparticles charge trapping layer 2015 ,		2
10	MOS memory with double-layer high-tunnel oxide Al ₂ O ₃ /HfO ₂ and ZnO charge trapping layer 2015 ,		2
9	Low power zinc-oxide based charge trapping memory with embedded silicon nanoparticles via poole-frenkel hole emission. <i>Applied Physics Letters</i> , 2014 , 104, 013112	3.4	27
8	Enhanced memory effect with embedded graphene nanoplatelets in ZnO charge trapping layer. <i>Applied Physics Letters</i> , 2014 , 105, 033102	3.4	30
7	Enhanced memory effect via quantum confinement in 16 nm InN nanoparticles embedded in ZnO charge trapping layer. <i>Applied Physics Letters</i> , 2014 , 104, 253106	3.4	24
6	2-nm laser-synthesized Si nanoparticles for low-power charge trapping memory devices 2014 ,		11
5	Silicon nanoparticle charge trapping memory cell. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 629-633	2.5	18
4	Zinc-oxide charge trapping memory cell with ultra-thin chromium-oxide trapping layer. <i>AIP Advances</i> , 2013 , 3, 112116	1.5	19
3	Diode behavior in ultra-thin low temperature ALD grown zinc-oxide on silicon. <i>AIP Advances</i> , 2013 , 3, 102119	1.5	35
2	MemSor: Emergence of the In-Memory Sensing Technology for the Digital Transformation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100528	1.6	1
1	Solar Powered Small Unmanned Aerial Vehicles: A Review. <i>Energy Technology</i> , 2100587	3.5	0