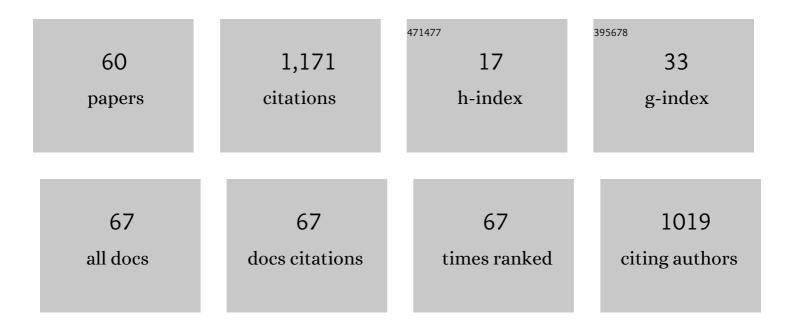
Nazek El-Atab

List of Publications by Year in descending order

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NAZEK FI-ATAR

#	Article	IF	CITATIONS
1	Soft Actuators for Soft Robotic Applications: A Review. Advanced Intelligent Systems, 2020, 2, 2000128.	6.1	244
2	Flexible Nanoporous Template for the Design and Development of Reusable Anti-COVID-19 Hydrophobic Face Masks. ACS Nano, 2020, 14, 7659-7665.	14.6	133
3	Recent Progress on Flexible Capacitive Pressure Sensors: From Design and Materials to Applications. Advanced Materials Technologies, 2021, 6, 2001023.	5.8	131
4	Soft Actuators for Soft Robotic Applications: A Review. Advanced Intelligent Systems, 2020, 2, 2070102.	6.1	70
5	A Robust Wearable Pointâ€ofâ€Care CNTâ€Based Strain Sensor for Wirelessly Monitoring Throatâ€Related Illnesses. Advanced Functional Materials, 2021, 31, 2103375.	14.9	67
6	Diode behavior in ultra-thin low temperature ALD grown zinc-oxide on silicon. AIP Advances, 2013, 3, .	1.3	38
7	Low power zinc-oxide based charge trapping memory with embedded silicon nanoparticles via poole-frenkel hole emission. Applied Physics Letters, 2014, 104, 013112.	3.3	34
8	Enhanced memory effect with embedded graphene nanoplatelets in ZnO charge trapping layer. Applied Physics Letters, 2014, 105, 033102.	3.3	32
9	Corrugation Enabled Asymmetrically Ultrastretchable (95%) Monocrystalline Silicon Solar Cells with High Efficiency (19%). Advanced Energy Materials, 2019, 9, 1902883.	19.5	31
10	Enhanced memory effect via quantum confinement in 16 nm InN nanoparticles embedded in ZnO charge trapping layer. Applied Physics Letters, 2014, 104, 253106.	3.3	27
11	~3-nm ZnO Nanoislands Deposition and Application in Charge Trapping Memory Grown by Single ALD Step. Scientific Reports, 2016, 6, 38712.	3.3	27
12	Enhanced performance of thin-film amorphous silicon solar cells with a top film of 2.85 nm silicon nanoparticles. Solar Energy, 2016, 125, 332-338.	6.1	25
13	Enhanced non-volatile memory characteristics with quattro-layer graphene nanoplatelets vs. 2.85-nm Si nanoparticles with asymmetric Al2O3/HfO2 tunnel oxide. Nanoscale Research Letters, 2015, 10, 957.	5.7	22
14	1D versus 3D quantum confinement in 1–5 nm ZnO nanoparticle agglomerations for application in charge-trapping memory devices. Nanotechnology, 2016, 27, 275205.	2.6	21
15	Zinc-oxide charge trapping memory cell with ultra-thin chromium-oxide trapping layer. AIP Advances, 2013, 3, .	1.3	20
16	Ultraflexible Corrugated Monocrystalline Silicon Solar Cells with High Efficiency (19%), Improved Thermal Performance, and Reliability Using Low-Cost Laser Patterning. ACS Applied Materials & Interfaces, 2020, 12, 2269-2275.	8.0	20
17	Silicon nanoparticle charge trapping memory cell. Physica Status Solidi - Rapid Research Letters, 2014, 8, 629-633.	2.4	18
18	Cubic-phase zirconia nano-island growth using atomic layer deposition and application in low-power charge-trapping nonvolatile-memory devices. Nanotechnology, 2017, 28, 445201.	2.6	17

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#	Article	IF	CITATIONS
19	Flexible and stretchable inorganic solar cells: Progress, challenges, and opportunities. MRS Energy & Sustainability, 2020, 7, 1.	3.0	16
20	Toward nanotechnology-enabled face masks against SARS-CoV-2 and pandemic respiratory diseases. Nanotechnology, 2022, 33, 062006.	2.6	14
21	Memory effect by charging of ultra-small 2-nm laser-synthesized solution processable Si-nanoparticles embedded in Si-Al2 O3 -SiO2 structure. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1751-1755.	1.8	13
22	2D materials show brain-like learning. Nature Electronics, 2018, 1, 436-437.	26.0	13
23	Solar Powered Small Unmanned Aerial Vehicles: A Review. Energy Technology, 2021, 9, 2100587.	3.8	13
24	Pressureâ€Driven Twoâ€Input 3D Microfluidic Logic Gates. Advanced Science, 2020, 7, 1903027.	11.2	12
25	2-nm laser-synthesized Si nanoparticles for low-power charge trapping memory devices. , 2014, , .		11
26	Heterogeneous Cubic Multidimensional Integrated Circuit for Water and Food Security in Fish Farming Ponds. Small, 2020, 16, e1905399.	10.0	11
27	Nanoislands-Based Charge Trapping Memory: A Scalability Study. IEEE Nanotechnology Magazine, 2017, 16, 1143-1146.	2.0	10
28	Biâ€Facial Substrates Enabled Heterogeneous Multiâ€Dimensional Integrated Circuits (MDâ€IC) for Internet of Things (IoT) Applications. Advanced Engineering Materials, 2019, 21, 1900043.	3.5	10
29	Al Powered Unmanned Aerial Vehicle for Payload Transport Application. , 2019, , .		8
30	Nature-inspired spherical silicon solar cell for three-dimensional light harvesting, improved dust and thermal management. MRS Communications, 2020, 10, 391-397.	1.8	8
31	Expandable Polymer Assisted Wearable Personalized Medicinal Platform. Advanced Materials Technologies, 2020, 5, 2000411.	5.8	6
32	Polymer/paper-based double touch mode capacitive pressure sensing element for wireless control of robotic arm. , 2020, , .		6
33	Nano-scale transistors for interfacing with brain: design criteria, progress and prospect. Nanotechnology, 2019, 30, 442001.	2.6	5
34	Structural Engineering Approach for Designing Foil-Based Flexible Capacitive Pressure Sensors. IEEE Sensors Journal, 2022, 22, 11543-11551.	4.7	5
35	Flexible Highâ€Efficiency Corrugated Monocrystalline Silicon Solar Cells for Application in Small Unmanned Aerial Vehicles for Payload Transportation. Energy Technology, 2020, 8, 2000670.	3.8	4
36	MemSor: Emergence of the Inâ€Memory Sensing Technology for the Digital Transformation. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100528.	1.8	4

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#	Article	IF	CITATIONS
37	MOS memory with double-layer high- $\hat{I}^{ m e}$ tunnel oxide Al2O3/HfO2 and ZnO charge trapping layer. , 2015, , .		3
38	High-Efficiency Corrugated Monocrystalline Silicon Solar Cells with Multi-Directional Flexing Capabilities. , 2019, , .		3
39	3D Heterogeneous Integration Strategy for Physically Flexible CMOS Electronic Systems. , 2021, , .		3
40	MOS memory with ultrathin Al2O3-TiO2 nanolaminates tunnel oxide and 2.85-nm Si-nanoparticles charge trapping layer. , 2015, , .		2
41	Flexible Capacitive Pressure Sensors: Recent Progress on Flexible Capacitive Pressure Sensors: From Design and Materials to Applications (Adv. Mater. Technol. 4/2021). Advanced Materials Technologies, 2021, 6, 2170023.	5.8	2
42	Growth of $\hat{a}^{1}/43$ -nm ZnO nano-islands using Atomic Layer Deposition. , 2016, , .		1
43	Agglomeration-based nanoparticle fabrication. , 2020, , 133-153.		1
44	Scalability of nano-island based memory devices. , 2020, , 155-174.		1
45	Multi-Dimensional Integration and Packaging of Devices for Internet-of-Things Applications. , 2020, , .		1
46	Heterogeneous Multi-Dimensional Integrated Circuit for Internet-of-Things Application. , 2019, , .		1
47	â^¼12% Efficiency improvement in a-Si thin-film solar cells using ALD grown 2-nm-thick ZnO nanoislands. , 2016, , .		0
48	Basics of memory devices. , 2020, , 1-22.		0
49	Overview of charge trapping memory devices—Tunnel band engineering. , 2020, , 23-44.		0
50	Overview of charge trapping memory devices—charge trapping layer engineering. , 2020, , 45-66.		0
51	Atomic layer deposition based nano-island growth. , 2020, , 67-106.		Ο
52	Laser ablated nanoparticles synthesis. , 2020, , 107-131.		0
53	Personalized Healthcare: Expandable Polymer Assisted Wearable Personalized Medicinal Platform (Adv. Mater. Technol. 10/2020). Advanced Materials Technologies, 2020, 5, 2070064.	5.8	Ο
54	Ultrastretchable Corrugated Monocrystalline Silicon Solar Cells with Interdigitated Back Contacts. , 2020, , .		0

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#	Article	IF	CITATIONS
55	Water Quality Monitoring: Heterogeneous Cubic Multidimensional Integrated Circuit for Water and Food Security in Fish Farming Ponds (Small 4/2020). Small, 2020, 16, 2070023.	10.0	0
56	Wrinkeld Polydimethylsiloxane for Enahnced Light Trapping and Anti-Reflection in Flexible Corrugated Silicon Solar Cells. , 2021, , .		0
57	Two-nanometer Laser Synthesized Si-Nanoparticles for Low Power Memory Applications. , 2016, , 129-156.		0
58	Large-Scale Spherical Silicon Solar Cell for Advanced Light Management. , 2020, , .		0
59	Ultra-stretchable Silicon Solar Cells for Standalone Wearable and Foldable Electronics Application. , 2020, , .		0
60	Corrugation Enabled Ultraflexible Monocrystalline Silicon Solar Cells with Interdigitated Back Contacts. , 2020, , .		0