

# Mohamed Ghoneim

## List of Publications by Year in descending order

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48  
papers

1,029  
citations

471061

17  
h-index

433756

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. <i>Chemical Reviews</i> , 2019, 119, 5248-5297.	23.0	161
2	Review on Physically Flexible Nonvolatile Memory for Internet of Everything Electronics. <i>Electronics (Switzerland)</i> , 2015, 4, 424-479.	1.8	118
3	Thin PZT-Based Ferroelectric Capacitors on Flexible Silicon for Nonvolatile Memory Applications. <i>Advanced Electronic Materials</i> , 2015, 1, 1500045.	2.6	99
4	Transformational Silicon Electronics. <i>ACS Nano</i> , 2014, 8, 1468-1474.	7.3	80
5	Flexible Nanoscale High-Performance FinFETs. <i>ACS Nano</i> , 2014, 8, 9850-9856.	7.3	65
6	Flexible and biocompatible high-performance solid-state micro-battery for implantable orthodontic system. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	65
7	Study of harsh environment operation of flexible ferroelectric memory integrated with PZT and silicon fabric. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	40
8	Flexible High- $\kappa$ /Metal Gate Metal/Insulator/Metal Capacitors on Silicon (100) Fabric. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 3305-3309.	1.6	33
9	Simplistic graphene transfer process and its impact on contact resistance. <i>Applied Physics Letters</i> , 2013, 102, 183115.	1.5	30
10	Corrugation Architecture Enabled Ultraflexible Wafer-Scale High-Efficiency Monocrystalline Silicon Solar Cell. <i>Advanced Energy Materials</i> , 2018, 8, 1702221.	10.2	29
11	Mechanical anomaly impact on metal-oxide-semiconductor capacitors on flexible silicon fabric. <i>Applied Physics Letters</i> , 2014, 104, 234104.	1.5	27
12	Nonplanar Nanoscale Fin Field Effect Transistors on Textile, Paper, Wood, Stone, and Vinyl <i>via</i> Soft Material-Enabled Double-Transfer Printing. <i>ACS Nano</i> , 2015, 9, 5255-5263.	7.3	26
13	Free-Form Flexible Lithium-Ion Microbattery. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 402-408.	1.1	24
14	Towards neuromorphic electronics: Memristors on foldable silicon fabric. <i>Microelectronics Journal</i> , 2014, 45, 1392-1395.	1.1	22
15	Expandable Polymer Enabled Wirelessly Destructible High-Performance Solid State Electronics. <i>Advanced Materials Technologies</i> , 2017, 2, 1600264.	3.0	20
16	Functional integrity of flexible n-channel metal-oxide-semiconductor field-effect transistors on a reversibly bistable platform. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	18
17	Freeform Compliant CMOS Electronic Systems for Internet of Everything Applications. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1894-1905.	1.6	17
18	Electrical Analysis of High Dielectric Constant Insulator and Metal Gate Metal Oxide Semiconductor Capacitors on Flexible Bulk Mono-Crystalline Silicon. <i>IEEE Transactions on Reliability</i> , 2015, 64, 579-585.	3.5	15

#	ARTICLE	IF	CITATIONS
19	Additive advantage in characteristics of MIMCAPs on flexible silicon (100) fabric with release-first process. Physica Status Solidi - Rapid Research Letters, 2014, 8, 163-166.	1.2	14
20	Strain-Induced Rolled Thin Films for Lightweight Tubular Thermoelectric Generators. Advanced Materials Technologies, 2018, 3, 1700192.	3.0	14
21	Out-of-Plane Strain Effects on Physically Flexible FinFET CMOS. IEEE Transactions on Electron Devices, 2016, 63, 2657-2664.	1.6	13
22	Highly Manufacturable Deep (Sub-Millimeter) Etching Enabled High Aspect Ratio Complex Geometry Lego-Like Silicon Electronics. Small, 2017, 13, 1601801.	5.2	12
23	Zinc oxide integrated area efficient high output low power wavy channel thin film transistor. Applied Physics Letters, 2013, 103, 224101.	1.5	10
24	Enhanced cooling in mono-crystalline ultra-thin silicon by embedded micro-air channels. AIP Advances, 2015, 5, 127115.	0.6	10
25	Modular Lego-Electronics. Advanced Materials Technologies, 2018, 3, 1700147.	3.0	9
26	A Protocol to Characterize pH Sensing Materials and Systems. Small Methods, 2019, 3, 1800265.	4.6	8
27	Area and Energy Efficient High-Performance ZnO Wavy Channel Thin-Film Transistor. IEEE Transactions on Electron Devices, 2014, 61, 3223-3228.	1.6	7
28	Wavy channel thin film transistor architecture for area efficient, high performance and low power displays. Physica Status Solidi - Rapid Research Letters, 2014, 8, 248-251.	1.2	6
29	High temperature study of flexible silicon-on-insulator fin field-effect transistors. Applied Physics Letters, 2014, 105, .	1.5	6
30	Out-of-plane strain effect on silicon-based flexible FinFETs. , 2015, , .		5
31	(Invited) Wavy Channel TFT Architecture for High Performance Oxide Based Displays. ECS Transactions, 2015, 67, 191-198.	0.3	5
32	CMOS compatible fabrication of flexible and semi-transparent FeRAM on ultra-thin bulk monocrystalline silicon (100) fabric. , 2014, , .		4
33	Power gating of VLSI circuits using MEMS switches in low power applications. , 2011, , .		3
34	CMOS compatible route for GaAs based large scale flexible and transparent electronics. , 2014, , .		3
35	Ultra-high density out-of-plane strain sensor 3D architecture based on sub-20 nm PMOS FinFET. , 2015, , .		3
36	Flexible and/or Stretchable Sensor Systems. Journal of Sensors, 2019, 2019, 1-2.	0.6	3

#	ARTICLE	IF	CITATIONS
37	CMOS compatible generic batch process towards flexible memory on bulk monocrystalline silicon (100). , 2014, , .		1
38	Transformational electronics: a powerful way to revolutionize our information world. , 2014, , .		1
39	Free form CMOS electronics: Physically flexible and stretchable. , 2015, , .		1
40	Flexible lithium-ion planer thin-film battery. , 2015, , .		1
41	Manufacturable Heterogeneous Integration for Flexible CMOS Electronics. , 2018, , .		1
42	Direct measurement of graphene contact resistivity to pre-deposited metal in buried contact test structure. , 2013, , .		0
43	High temperature performance of flexible SOI FinFETs with sub-20 nm fins. , 2014, , .		0
44	Foldable neuromorphic memristive electronics. , 2014, , .		0
45	Wavy channel thin film transistor for area efficient, high performance and low power applications. , 2014, , .		0
46	High performance flexible CMOS SOI FinFETs. , 2014, , .		0
47	Current enhancement in crystalline silicon photovoltaic by low-cost nickel silicide back contact. , 2016, , .		0
48	Solar Cells: Corrugation Architecture Enabled Ultraflexible Waferâ€Scale Highâ€Efficiency Monocrystalline Silicon Solar Cell (Adv. Energy Mater. 12/2018). Advanced Energy Materials, 2018, 8, 1870055.	10.2	0