

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
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49
all docs

49
docs citations

49
times ranked

1440
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and/or Stretchable Sensor Systems. Journal of Sensors, 2019, 2019, 1-2.	0.6	3
2	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. Chemical Reviews, 2019, 119, 5248-5297.	23.0	161
3	A Protocol to Characterize pH Sensing Materials and Systems. Small Methods, 2019, 3, 1800265.	4.6	8
4	Corrugation Architecture Enabled Ultraflexible Wafer-Scale High-Efficiency Monocrystalline Silicon Solar Cell. Advanced Energy Materials, 2018, 8, 1702221.	10.2	29
5	Solar Cells: Corrugation Architecture Enabled Ultraflexible Wafer-Scale High-Efficiency Monocrystalline Silicon Solar Cell (Adv. Energy Mater. 12/2018). Advanced Energy Materials, 2018, 8, 1870055.	10.2	0
6	Modular Lego-Like Electronics. Advanced Materials Technologies, 2018, 3, 1700147.	3.0	9
7	Strain-Induced Rolled Thin Films for Lightweight Tubular Thermoelectric Generators. Advanced Materials Technologies, 2018, 3, 1700192.	3.0	14
8	Manufacturable Heterogeneous Integration for Flexible CMOS Electronics. , 2018, , .		1
9	Freeform Compliant CMOS Electronic Systems for Internet of Everything Applications. IEEE Transactions on Electron Devices, 2017, 64, 1894-1905.	1.6	17
10	Highly Manufacturable Deep (Sub-Millimeter) Etching Enabled High Aspect Ratio Complex Geometry Lego-Like Silicon Electronics. Small, 2017, 13, 1601801.	5.2	12
11	Expandable Polymer Enabled Wirelessly Destructible High-Performance Solid State Electronics. Advanced Materials Technologies, 2017, 2, 1600264.	3.0	20
12	Flexible and biocompatible high-performance solid-state micro-battery for implantable orthodontic system. Npj Flexible Electronics, 2017, 1, .	5.1	65
13	Current enhancement in crystalline silicon photovoltaic by low-cost nickel silicide back contact. , 2016, , .		0
14	Out-of-Plane Strain Effects on Physically Flexible FinFET CMOS. IEEE Transactions on Electron Devices, 2016, 63, 2657-2664.	1.6	13
15	Free-Form Flexible Lithium-Ion Microbattery. IEEE Nanotechnology Magazine, 2016, 15, 402-408.	1.1	24
16	Free form CMOS electronics: Physically flexible and stretchable. , 2015, , .		1
17	Enhanced cooling in mono-crystalline ultra-thin silicon by embedded micro-air channels. AIP Advances, 2015, 5, 127115.	0.6	10
18	Functional integrity of flexible n-channel metal-oxide-semiconductor field-effect transistors on a reversibly bistable platform. Applied Physics Letters, 2015, 107, .	1.5	18

#	ARTICLE	IF	CITATIONS
19	Out-of-plane strain effect on silicon-based flexible FinFETs. , 2015, , .		5
20	(Invited) Wavy Channel TFT Architecture for High Performance Oxide Based Displays. ECS Transactions, 2015, 67, 191-198.	0.3	5
21	Review on Physically Flexible Nonvolatile Memory for Internet of Everything Electronics. Electronics (Switzerland), 2015, 4, 424-479.	1.8	118
22	Flexible lithium-ion planer thin-film battery. , 2015, , .		1
23	Ultra-high density out-of-plane strain sensor 3D architecture based on sub-20 nm PMOS FinFET. , 2015, , .		3
24	Electrical Analysis of High Dielectric Constant Insulator and Metal Gate Metal Oxide Semiconductor Capacitors on Flexible Bulk Mono-Crystalline Silicon. IEEE Transactions on Reliability, 2015, 64, 579-585.	3.5	15
25	Thin PZT-Based Ferroelectric Capacitors on Flexible Silicon for Nonvolatile Memory Applications. Advanced Electronic Materials, 2015, 1, 1500045.	2.6	99
26	Nonplanar Nanoscale Fin Field Effect Transistors on Textile, Paper, Wood, Stone, and Vinyl <i>via</i> Soft Material-Enabled Double-Transfer Printing. ACS Nano, 2015, 9, 5255-5263.	7.3	26
27	Study of harsh environment operation of flexible ferroelectric memory integrated with PZT and silicon fabric. Applied Physics Letters, 2015, 107, .	1.5	40
28	CMOS compatible fabrication of flexible and semi-transparent FeRAM on ultra-thin bulk monocrystalline silicon (100) fabric. , 2014, , .		4
29	CMOS compatible route for GaAs based large scale flexible and transparent electronics. , 2014, , .		3
30	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
31	High temperature performance of flexible SOI FinFETs with sub-20 nm fins. , 2014, , .		0
32	High temperature study of flexible silicon-on-insulator fin field-effect transistors. Applied Physics Letters, 2014, 105, .	1.5	6
33	CMOS compatible generic batch process towards flexible memory on bulk monocrystalline silicon (100). , 2014, , .		1
34	Mechanical anomaly impact on metal-oxide-semiconductor capacitors on flexible silicon fabric. Applied Physics Letters, 2014, 104, 234104.	1.5	27
35	Foldable neuromorphic memristive electronics. , 2014, , .		0
36	Area and Energy Efficient High-Performance ZnO Wavy Channel Thin-Film Transistor. IEEE Transactions on Electron Devices, 2014, 61, 3223-3228.	1.6	7

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37	Wavy channel thin film transistor for area efficient, high performance and low power applications. , 2014, , .		0
38	Flexible Nanoscale High-Performance FinFETs. ACS Nano, 2014, 8, 9850-9856.	7.3	65
39	High performance flexible CMOS SOI FinFETs. , 2014, , .		0
40	Towards neuromorphic electronics: Memristors on foldable silicon fabric. Microelectronics Journal, 2014, 45, 1392-1395.	1.1	22
41	Transformational Silicon Electronics. ACS Nano, 2014, 8, 1468-1474.	7.3	80
42	Additive advantage in characteristics of MIMCAPs on flexible silicon (100) fabric with releaseâ€first process. Physica Status Solidi - Rapid Research Letters, 2014, 8, 163-166.	1.2	14
43	Transformational electronics: a powerful way to revolutionize our information world. , 2014, , .		1
44	Flexible High- κ /Metal Gate Metal/Insulator/Metal Capacitors on Silicon (100) Fabric. IEEE Transactions on Electron Devices, 2013, 60, 3305-3309.	1.6	33
45	Simplistic graphene transfer process and its impact on contact resistance. Applied Physics Letters, 2013, 102, 183115.	1.5	30
46	Direct measurement of graphene contact resistivity to pre-deposited metal in buried contact test structure. , 2013, , .		0
47	Zinc oxide integrated area efficient high output low power wavy channel thin film transistor. Applied Physics Letters, 2013, 103, 224101.	1.5	10
48	Power gating of VLSI circuits using MEMS switches in low power applications. , 2011, , .		3