

List of Publications by Citations

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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.

101 papers	2,828 citations	27 h-index	50 g-index
134 ext. papers	3,320 ext. citations	5.6 avg, IF	5.06 L-index

#	Paper	IF	Citations
101	Progress in 2D photonic crystal Fano resonance photonics. <i>Progress in Quantum Electronics</i> , 2014 , 38, 1-74	9.1	165
100	Materials for bioresorbable radio frequency electronics. <i>Advanced Materials</i> , 2013 , 25, 3526-31	24	154
99	Transfer-printed stacked nanomembrane lasers on silicon. <i>Nature Photonics</i> , 2012 , 6, 615-620	33.9	147
98	Highly stretchable carbon nanotube transistors with ion gel gate dielectrics. <i>Nano Letters</i> , 2014 , 14, 682-61.5	11.5	133
97	Origami silicon optoelectronics for hemispherical electronic eye systems. <i>Nature Communications</i> , 2017 , 8, 1782	17.4	119
96	12-GHz thin-film transistors on transferrable silicon nanomembranes for high-performance flexible electronics. <i>Small</i> , 2010 , 6, 2553-7	11	118
95	Recent advances in free-standing single crystalline wide band-gap semiconductors and their applications: GaN, SiC, ZnO, EGa2O3, and diamond. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8338-8354	7.1	117
94	Interface engineering by piezoelectric potential in ZnO-based photoelectrochemical anode. <i>Nano Letters</i> , 2011 , 11, 5587-93	11.5	108
93	Biodegradable Thin Metal Foils and Spin-On Glass Materials for Transient Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 1789-1797	15.6	101
92	Nanometre-thick single-crystalline nanosheets grown at the water-air interface. <i>Nature Communications</i> , 2016 , 7, 10444	17.4	100
91	Nanopatterning by laser interference lithography: applications to optical devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 1521-32	1.3	88
90	Fast flexible electronics with strained silicon nanomembranes. <i>Scientific Reports</i> , 2013 , 3, 1291	4.9	86
89	Cl-doped ZnO nanowires with metallic conductivity and their application for high-performance photoelectrochemical electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1288-93	9.5	69
88	Flexible Phototransistors Based on Single-Crystalline Silicon Nanomembranes. <i>Advanced Optical Materials</i> , 2016 , 4, 120-125	8.1	65
87	Fast flexible electronics using transferrable silicon nanomembranes. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 143001	3	61
86	Stable p-type conduction from Sb-decorated head-to-head basal plane inversion domain boundaries in ZnO nanowires. <i>Nano Letters</i> , 2012 , 12, 1311-6	11.5	57
85	Double-layer Fano resonance photonic crystal filters. <i>Optics Express</i> , 2013 , 21, 24582-9	3.3	53

84	Microwave flexible transistors on cellulose nanofibrillated fiber substrates. <i>Applied Physics Letters</i> , 2015 , 106, 262101	3.4	51
83	An aqueous solution-based doping strategy for large-scale synthesis of Sb-doped ZnO nanowires. <i>Nanotechnology</i> , 2011 , 22, 225602	3.4	50
82	Coupled double-layer Fano resonance photonic crystal filters with lattice-displacement. <i>Applied Physics Letters</i> , 2013 , 103, 241106	3.4	43
81	226 nm AlGaIn/AlN UV LEDs using p-type Si for hole injection and UV reflection. <i>Applied Physics Letters</i> , 2018 , 113, 011111	3.4	40
80	Substrate-free self-assembly approach toward large-area nanomembranes. <i>ACS Nano</i> , 2012 , 6, 2602-9	16.7	35
79	229 nm UV LEDs on aluminum nitride single crystal substrates using p-type silicon for increased hole injection. <i>Applied Physics Letters</i> , 2018 , 112, 081101	3.4	33
78	RF Characterization of Gigahertz Flexible Silicon Thin-Film Transistor on Plastic Substrates Under Bending Conditions. <i>IEEE Electron Device Letters</i> , 2013 , 34, 262-264	4.4	32
77	Flexible EGa ₂ O ₃ Nanomembrane Schottky Barrier Diodes. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800714	16.4	31
76	A Simplified Method of Making Flexible Blue LEDs on a Plastic Substrate. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-7	1.8	30
75	Flexible and Transparent Organic Phototransistors on Biodegradable Cellulose Nanofibrillated Fiber Substrates. <i>Advanced Optical Materials</i> , 2018 , 6, 1701140	8.1	28
74	Transferrable single crystalline 4H-SiC nanomembranes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 264-268	16.1	26
73	A 6,13-bis(Triisopropylsilyl)ethynyl) Pentacene Thin-Film Transistor Using a Spun-On Inorganic Gate-Dielectric. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 500-505	2.9	26
72	High-performance flexible BiCMOS electronics based on single-crystal Si nanomembrane. <i>Npj Flexible Electronics</i> , 2017 , 1,	10.7	25
71	Fast Flexible Transistors with a Nanotrench Structure. <i>Scientific Reports</i> , 2016 , 6, 24771	4.9	25
70	Large-Area Printed Broadband Membrane Reflectors by Laser Interference Lithography. <i>IEEE Photonics Journal</i> , 2013 , 5, 2200106-2200106	1.8	25
69	Low dimensional freestanding semiconductors for flexible optoelectronics: materials, synthesis, process, and applications. <i>Materials Research Letters</i> , 2020 , 8, 123-144	7.4	22
68	Flexible germanium nanomembrane metal-semiconductor-metal photodiodes. <i>Applied Physics Letters</i> , 2016 , 109, 051105	3.4	22
67	Thermal diffusion boron doping of single-crystal natural diamond. <i>Journal of Applied Physics</i> , 2016 , 119, 205703	2.5	22

66	Fabrication and Characterization of Flexible Microwave Single-Crystal Germanium Nanomembrane Diodes on a Plastic Substrate. <i>IEEE Electron Device Letters</i> , 2013 , 34, 160-162	4.4	21
65	A Multifunction Heterojunction Formed Between Pentacene and a Single-Crystal Silicon Nanomembrane. <i>Advanced Functional Materials</i> , 2013 , 23, 3398-3403	15.6	20
64	p-type semiconducting trihexylsexithiophene for an organic thin film transistor. <i>Journal of Applied Physics</i> , 2007 , 101, 064502	2.5	19
63	Broadband Membrane Reflectors on Glass. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 476-478	2.2	18
62	Experimental characterization and modeling of the bending strain effect on flexible microwave diodes and switches on plastic substrate. <i>Applied Physics Letters</i> , 2011 , 99, 243104	3.4	18
61	Light absorption enhancement in Ge nanomembrane and its optoelectronic application. <i>Optics Express</i> , 2016 , 24, 16894-903	3.3	16
60	Design of Photonic Crystal Membrane-Reflector-Based VCSELs. <i>IEEE Photonics Journal</i> , 2012 , 4, 2169-2175	1.5	15
59	Direct Observation of Raman Spectra in Black Phosphorus under Uniaxial Strain Conditions. <i>Nanomaterials</i> , 2019 , 9,	5.4	14
58	Ultra-thin distributed Bragg reflectors via stacked single-crystal silicon nanomembranes. <i>Applied Physics Letters</i> , 2015 , 106, 181107	3.4	14
57	Investigation of Thermal Properties of EGa ₂ O ₃ Nanomembranes on Diamond Heterostructure Using Raman Thermometry. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 055007	2	14
56	Investigation of various mechanical bending strains on characteristics of flexible monocrystalline silicon nanomembrane diodes on a plastic substrate. <i>Microelectronic Engineering</i> , 2013 , 110, 40-43	2.5	14
55	Epitaxial VO ₂ thin film-based radio-frequency switches with thermal activation. <i>Applied Physics Letters</i> , 2017 , 111, 063110	3.4	14
54	Flexible crystalline EGa ₂ O ₃ solar-blind photodetectors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14732-14739	1.7	14
53	Quantitative modeling of betavoltaic microbattery performance. <i>Sensors and Actuators A: Physical</i> , 2016 , 240, 131-137	3.9	13
52	Creating periodic local strain in monolayer graphene with nanopillars patterned by self-assembled block copolymer. <i>Applied Physics Letters</i> , 2015 , 107, 143107	3.4	13
51	High Performance Flexible Visible-Blind Ultraviolet Photodetectors with Two-Dimensional Electron Gas Based on Unconventional Release Strategy. <i>ACS Nano</i> , 2021 , 15, 8386-8396	16.7	13
50	Chalcogenide perovskite BaZrS ₃ thin-film electronic and optoelectronic devices by low temperature processing. <i>Nano Energy</i> , 2021 , 85, 105959	17.1	13
49	Tunable biaxial in-plane compressive strain in a Si nanomembrane transferred on a polyimide film. <i>Applied Physics Letters</i> , 2015 , 106, 212107	3.4	12

48	Polycrystalline GeSn thin films on Si formed by alloy evaporation. <i>Applied Physics Express</i> , 2015 , 8, 061301.4	1.4	12
47	Flexible radio-frequency single-crystal germanium switch on plastic substrates. <i>Applied Physics Letters</i> , 2014 , 104, 163501	3.4	12
46	Semiconductor nanomembranes for integrated silicon photonics and flexible Photonics. <i>Optical and Quantum Electronics</i> , 2012 , 44, 605-611	2.4	12
45	Capacitance-voltage characteristics of Si and Ge nanomembrane based flexible metal-oxide-semiconductor devices under bending conditions. <i>Applied Physics Letters</i> , 2016 , 108, 233505 ^{3,4}	3.4	12
44	Prediction of optical band gap of $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ using material informatics. <i>Materials Discovery</i> , 2018 , 11, 1-5		12
43	Characterizations of biodegradable epoxy-coated cellulose nanofibrils (CNF) thin film for flexible microwave applications. <i>Cellulose</i> , 2016 , 23, 1989-1995	5.5	11
42	Transfer Printed Nanomembranes for Heterogeneously Integrated Membrane Photonics. <i>Photonics</i> , 2015 , 2, 1081-1100	2.2	10
41	A zinc-oxide thin-film transistor using a spun-on dielectric and gate electrode. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 065105	3	10
40	Fast Flexible Electronics Based on Printable Thin Mono-Crystalline Silicon. <i>ECS Transactions</i> , 2011 , 34, 137-142	1	10
39	P-type silicon as hole supplier for nitride-based UVC LEDs. <i>New Journal of Physics</i> , 2019 , 21, 023011	2.9	9
38	On the bending characterization of flexible radio-frequency single-crystalline germanium diodes on a plastic substrate. <i>Applied Physics Letters</i> , 2015 , 106, 043504	3.4	8
37	Effect of modifying a methyl siloxane-based dielectric by a polymer thin film for pentacene thin-film transistors. <i>Applied Surface Science</i> , 2008 , 254, 6987-6990	6.7	8
36	Amorphous Si/SiO ₂ distributed Bragg reflectors with transfer printed single-crystalline Si nanomembranes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 040601	1.3	8
35	Resonant cavity germanium photodetector via stacked single-crystalline nanomembranes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 040604	1.3	7
34	Large-size free-standing single-crystal Ga_2O_3 membranes fabricated by hydrogen implantation and lift-off. <i>Journal of Materials Chemistry C</i> ,	7.1	7
33	Fabrication of Ge-on-insulator wafers by Smart-Cut TM with thermal management for undamaged donor Ge wafers. <i>Semiconductor Science and Technology</i> , 2018 , 33, 015017	1.8	6
32	Recent Progress in Gallium Oxide and Diamond Based High Power and High-Frequency Electronics. <i>International Journal of High Speed Electronics and Systems</i> , 2019 , 28, 1940004	0.5	6
31	Direct Growth of Two Dimensional Molybdenum Disulfide on Flexible Ceramic Substrate. <i>Nanomaterials</i> , 2019 , 9,	5.4	5

30	Cryogenic operation of a 24 GHz MMIC SiGe HBT medium power amplifier. <i>Semiconductor Science and Technology</i> , 2010 , 25, 125002	1.8	5
29	Fabrication of AlGaAs/GaAs/diamond heterojunctions for diamond-collector HBTs. <i>AIP Advances</i> , 2020 , 10, 125226	1.5	5
28	High-Performance Solar Blind UV Photodetectors Based on Single-Crystal Si/EGa ₂ O ₃ p-n Heterojunction. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100254	6.8	5
27	On the integration of ultrananocrystalline diamond (UNCD) with CMOS chip. <i>AIP Advances</i> , 2017 , 7, 035123	1.3	4
26	Radio-frequency flexible and stretchable electronics: the need, challenges and opportunities 2017 ,		4
25	Triaxial compressive strain in bilayer graphene enabled by nitride stressor layer. <i>Extreme Mechanics Letters</i> , 2017 , 11, 77-83	3.9	4
24	Electroforming-Free HfO ₂ :CeO ₂ Vertically Aligned Nanocomposite Memristors with Anisotropic Dielectric Response. <i>ACS Applied Electronic Materials</i> ,	4	4
23	A simplified method of measuring thermal conductivity of EGa ₂ O ₃ nanomembrane. <i>Nano Express</i> , 2020 , 1, 030010	2	4
22	Wrinkled bilayer graphene with wafer scale mechanical strain. <i>Applied Physics Letters</i> , 2016 , 108, 183101	3.4	4
21	Athermal Photonic Crystal Membrane Reflectors on Diamond. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1072-1075	2.2	3
20	Epitaxial VO ₂ thin-film-based radio-frequency switches with electrical activation. <i>Applied Physics Express</i> , 2017 , 10, 091101	2.4	3
19	Transferrable single-crystal silicon nanomembranes and their application to flexible microwave systems. <i>Journal of Information Display</i> , 2011 , 12, 109-113	4.1	3
18	Detecting the Oxidation of Zircaloy Claddings by Infrared Interference. <i>Nano</i> , 2018 , 13, 1850015	1.1	2
17	Microwave TFTs Made of MOCVD ZnO With ALD Al ₂ O ₃ Gate Dielectric. <i>IEEE Journal of the Electron Devices Society</i> , 2016 , 4, 55-59	2.3	2
16	Graphene RF transistors with buried bottom gate 2013 ,		2
15	Design and Characterization of Photonic Crystal Membrane Reflector Based Vertical Cavity Surface Emitting Lasers on Silicon. <i>Reviews in Nanoscience and Nanotechnology</i> , 2014 , 3, 77-87		2
14	Releasable AlGaN/GaN 2D Electron Gas Heterostructure Membranes for Flexible Wide-Bandgap Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100652	6.4	2
13	Investigation of Nano-Gaps in Fractured EGa ₂ O ₃ Nanomembranes Formed by Uniaxial Strain. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000763	6.4	2

12	Influences of Native Oxide on the Properties of Ultrathin Al ₂ O ₃ -Interfaced Si/GaAs Heterojunctions. <i>Advanced Materials Interfaces</i> , 2015	4.6	2
11	Distinct UV-Visible Responsivity Enhancement of GaAs Photodetectors via Monolithic Integration of Antireflective Nanopillar Structure and UV Absorbing IGZO Layer. <i>Advanced Optical Materials</i> , 2020	8.1	2
10	Bendable MOS capacitors formed with printed In _{0.2} Ga _{0.8} As/GaAs/In _{0.2} Ga _{0.8} As trilayer nanomembrane on plastic substrates. <i>Applied Physics Letters</i> , 2017 , 110, 133505	3.4	1
9	High-Speed, Flexible Electronics by Use of Si Nanomembranes 2016 , 113-142		1
8	Semiconductor Nanomembranes for Fano Resonance Photonic Crystal Devices 2016 , 271-304		1
7	Radio-frequency flexible transistors on cellulose nanofibrillated fiber (CNF) substrates 2015 ,		1
6	Semiconductor nanomembranes for integrated and flexible photonics 2011 ,		1
5	Theoretical Prediction of Heterogeneous Integration of Dissimilar Semiconductor with Various Ultra-Thin Oxides and 2D Materials. <i>Electronic Materials</i> , 2021 , 2, 495-503	0.8	1
4	Fast flexible thin-film transistors with deep submicron channel enabled by nanoimprint lithography 2016 ,		1
3	Transient Electronics: Biodegradable Thin Metal Foils and Spin-On Glass Materials for Transient Electronics (Adv. Funct. Mater. 12/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1904-1904	15.6	
2	Flexible CMOS chip converted by a novel chip transformation process. <i>Electronics Letters</i> , 2020 , 56, 1335-1337		
1	Bilayer metal etch mask strategy for deep diamond etching. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2022 , 40, 022210	1.3	