

# Ivan I Kravchenko

## List of Publications by Citations

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166  
papers

7,222  
citations

38  
h-index

82  
g-index

183  
ext. papers

8,477  
ext. citations

6.3  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
166	Dielectric meta-reflectarray for broadband linear polarization conversion and optical vortex generation. <i>Nano Letters</i> , <b>2014</b> , 14, 1394-9	11.5	720
165	All-dielectric metasurface analogue of electromagnetically induced transparency. <i>Nature Communications</i> , <b>2014</b> , 5, 5753	17.4	582
164	Realization of an all-dielectric zero-index optical metamaterial. <i>Nature Photonics</i> , <b>2013</b> , 7, 791-795	33.9	457
163	Low-voltage, low-power, organic light-emitting transistors for active matrix displays. <i>Science</i> , <b>2011</b> , 332, 570-3	33.3	405
162	Nonlinear Fano-Resonant Dielectric Metasurfaces. <i>Nano Letters</i> , <b>2015</b> , 15, 7388-93	11.5	347
161	Invited Article: Broadband highly efficient dielectric metadevices for polarization control. <i>APL Photonics</i> , <b>2016</b> , 1, 030801	5.2	248
160	Large-Scale All-Dielectric Metamaterial Perfect Reflectors. <i>ACS Photonics</i> , <b>2015</b> , 2, 692-698	6.3	223
159	Grayscale transparent metasurface holograms. <i>Optica</i> , <b>2016</b> , 3, 1504	8.6	216
158	Controlled vapor phase growth of single crystalline, two-dimensional GaSe crystals with high photoresponse. <i>Scientific Reports</i> , <b>2014</b> , 4, 5497	4.9	194
157	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 6484-92	16.7	191
156	Two-dimensional GaSe/MoSe <sub>2</sub> misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , <b>2016</b> , 2, e1501882	14.3	190
155	Quantum metasurface for multiphoton interference and state reconstruction. <i>Science</i> , <b>2018</b> , 361, 1104-1108	35.9	127
154	Room temperature deposited indium zinc oxide thin film transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 232103	3.4	122
153	Doping-based stabilization of the M2 phase in free-standing VO <sub>2</sub> nanostructures at room temperature. <i>Nano Letters</i> , <b>2012</b> , 12, 6198-205	11.5	120
152	Surface-induced orientation control of CuPc molecules for the epitaxial growth of highly ordered organic crystals on graphene. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3680-7	16.4	117
151	Nonlinear light generation in topological nanostructures. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 126-130	28.7	116
150	Flat optics for image differentiation. <i>Nature Photonics</i> , <b>2020</b> , 14, 316-323	33.9	114

149	Exploring local electrostatic effects with scanning probe microscopy: implications for piezoresponse force microscopy and triboelectricity. <i>ACS Nano</i> , <b>2014</b> , 8, 10229-36	16.7	110
148	Nonlinear Wavefront Control with All-Dielectric Metasurfaces. <i>Nano Letters</i> , <b>2018</b> , 18, 3978-3984	11.5	104
147	Multilayer Noninteracting Dielectric Metasurfaces for Multiwavelength Metaoptics. <i>Nano Letters</i> , <b>2018</b> , 18, 7529-7537	11.5	102
146	Thickness-dependent charge transport in few-layer MoS <sub>2</sub> field-effect transistors. <i>Nanotechnology</i> , <b>2016</b> , 27, 165203	3.4	96
145	Dynamic transmission control based on all-dielectric Huygens metasurfaces. <i>Optica</i> , <b>2018</b> , 5, 787	8.6	89
144	Casimir forces on a silicon micromechanical chip. <i>Nature Communications</i> , <b>2013</b> , 4, 1845	17.4	88
143	High-Performance Indium Gallium Zinc Oxide Transparent Thin-Film Transistors Fabricated by Radio-Frequency Sputtering. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, H383	3.9	87
142	Enhanced absorption in two-dimensional materials via Fano-resonant photonic crystals. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 181104	3.4	74
141	Silicon nanopillars for field-enhanced surface spectroscopy. <i>ACS Nano</i> , <b>2012</b> , 6, 2948-59	16.7	71
140	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , <b>2011</b> , 5, 9104-12	16.7	65
139	Stable room temperature deposited amorphous InGaZnO <sub>4</sub> thin film transistors. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, 959		60
138	Multifunctional metaoptics based on bilayer metasurfaces. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 80	16.7	59
137	Edge States and Topological Phase Transitions in Chains of Dielectric Nanoparticles. <i>Small</i> , <b>2017</b> , 13, 1603190	11	56
136	Probing local ionic dynamics in functional oxides at the nanoscale. <i>Nano Letters</i> , <b>2013</b> , 13, 3455-62	11.5	49
135	Direct probing of charge injection and polarization-controlled ionic mobility on ferroelectric LiNbO <sub>3</sub> surfaces. <i>Advanced Materials</i> , <b>2014</b> , 26, 958-63	24	44
134	Nanolithographic patterning of transparent, conductive single-walled carbon nanotube films by inductively coupled plasma reactive ion etching. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 348		44
133	Isolation blocking voltage of nitrogen ion-implanted AlGaIn/GaN high electron mobility transistor structure. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262116	3.4	43
132	Development of enhancement mode AlN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 263505	3.4	43

131	Shaping the third-harmonic radiation from silicon nanodimers. <i>Nanoscale</i> , <b>2017</b> , 9, 2201-2206	7.7	39
130	High-efficiency solar thermophotovoltaic system using a nanostructure-based selective emitter. <i>Solar Energy</i> , <b>2020</b> , 197, 538-545	6.8	38
129	Slow light Mach-Zehnder interferometer as label-free biosensor with scalable sensitivity. <i>Optics Letters</i> , <b>2016</b> , 41, 753-6	3	38
128	Space- and time-resolved mapping of ionic dynamic and electroresistive phenomena in lateral devices. <i>ACS Nano</i> , <b>2013</b> , 7, 6806-15	16.7	38
127	Quantification of in-contact probe-sample electrostatic forces with dynamic atomic force microscopy. <i>Nanotechnology</i> , <b>2017</b> , 28, 065704	3.4	37
126	Elemental analysis of bone: proton-induced X-ray emission testing in forensic cases. <i>Forensic Science International</i> , <b>2002</b> , 125, 37-41	2.6	37
125	Probing local bias-induced transitions using photothermal excitation contact resonance atomic force microscopy and voltage spectroscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 1848-57	16.7	35
124	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. <i>ACS Photonics</i> , <b>2016</b> , 3, 2389-2395	6.3	34
123	Enhancing the Sensitivity of Label-Free Silicon Photonic Biosensors through Increased Probe Molecule Density. <i>ACS Photonics</i> , <b>2014</b> , 1, 590-597	6.3	32
122	Ohmic contacts on n-type $\beta$ -Ga <sub>2</sub> O <sub>3</sub> using AZO/Ti/Au. <i>AIP Advances</i> , <b>2017</b> , 7, 095313	1.5	32
121	Direct atomic fabrication and dopant positioning in Si using electron beams with active real-time image-based feedback. <i>Nanotechnology</i> , <b>2018</b> , 29, 255303	3.4	31
120	Indium zinc oxide thin films deposited by sputtering at room temperature. <i>Applied Surface Science</i> , <b>2008</b> , 254, 2878-2881	6.7	31
119	Dependence on proton energy of degradation of AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 022201	1.3	29
118	Improvement of Ohmic contacts on Ga <sub>2</sub> O <sub>3</sub> through use of ITO-interlayers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 061201	1.3	27
117	Silicon nanopillars as a platform for enhanced fluorescence analysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9031-8	1.8	27
116	UV ozone treatment for improving contact resistance on graphene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 060604	1.3	27
115	Photonic crystal nanobeam biosensors based on porous silicon. <i>Optics Express</i> , <b>2019</b> , 27, 9536-9549	3.3	27
114	Transparent Dielectric Metasurfaces for Spatial Mode Multiplexing. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800031	8.3	27

113	W2B-based rectifying contacts to n-GaN. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 052110	3.4	21
112	Mie-Resonant Membrane HuygensSMetasurfaces. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906851	15.6	21
111	Direct Measurement of Optical Force Induced by Near-Field Plasmonic Cavity Using Dynamic Mode AFM. <i>Scientific Reports</i> , <b>2015</b> , 5, 16216	4.9	20
110	Impact of proton irradiation on dc performance of AlGaIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 042202	1.3	20
109	Effect of low dose irradiation on DC performance of circular AlGaIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 031203	1.3	19
108	Improvement of Off-State Stress Critical Voltage by Using Pt-Gated AlGaIn/GaN High Electron Mobility Transistors. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, H264		19
107	Demonstration of Large-Size Vertical Ga <sub>2</sub> O <sub>3</sub> Schottky Barrier Diodes. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 41-44	7.2	19
106	Zika virus detection using antibody-immobilized disposable cover glass and AlGaIn/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 032101	3.4	18
105	Growth diagram of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films using pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 234301	2.5	18
104	STM studies of the initial stages of growth of Sb on Si(100) surfaces. <i>Surface Science</i> , <b>1999</b> , 423, 43-52	1.8	18
103	Lithography-Free Large-Area Metamaterials for Stable Thermophotovoltaic Energy Conversion. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 671-676	8.1	18
102	Effects of proton irradiation on dc characteristics of InAlIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 061201	1.3	17
101	Metasurface polarization splitter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	16
100	Atom-by-atom fabrication by electron beam via induced phase transformations. <i>MRS Bulletin</i> , <b>2017</b> , 42, 653-659	3.2	16
99	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 244103	2.5	16
98	Effect of buffer structures on AlGaIn/GaN high electron mobility transistor reliability. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 011805	1.3	16
97	Ohmic contacts to p-type GaN based on TaN, TiN, and ZrN. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 212107	3.4	15
96	Dielectric Broadband Metasurfaces for Fiber Mode-Multiplexed Communications. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801679	8.1	14

95	Ion transport and softening in a polymerized ionic liquid. <i>Nanoscale</i> , <b>2015</b> , 7, 947-55	7.7	14
94	Optical transmission through double-layer, laterally shifted metallic subwavelength hole arrays. <i>Optics Letters</i> , <b>2010</b> , 35, 2124-6	3	14
93	ZrB <sub>2</sub> Schottky diode contacts on n-GaN. <i>Applied Surface Science</i> , <b>2006</b> , 253, 2315-2319	6.7	14
92	Effect of deposition conditions and annealing on W Schottky contacts on n-GaN. <i>Materials Science in Semiconductor Processing</i> , <b>2004</b> , 7, 95-98	4.3	14
91	Characteristics of gate leakage current and breakdown voltage of AlGaIn/GaN high electron mobility transistors after postprocess annealing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 052201	1.3	13
90	Comparison of electrical and reliability performances of TiB <sub>2</sub> -, CrB <sub>2</sub> -, and W <sub>2</sub> B <sub>5</sub> -based Ohmic contacts on n-GaN. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 744		13
89	Improved thermally stable ohmic contacts on p-GaN based on W <sub>2</sub> B <sub>5</sub> . <i>Applied Physics Letters</i> , <b>2006</b> , 88, 012104	3.4	13
88	Label-free detection of Herceptin <sup>®</sup> using suspended silicon microring resonators. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 275, 394-401	8.5	12
87	Nanotransfer printing using plasma etched silicon stamps and mediated by in situ deposited fluoropolymer. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7722-4	16.4	12
86	Stamping plasmonic nanoarrays on SERS-supporting platforms. <i>Journal of Raman Spectroscopy</i> , <b>2011</b> , 42, 1916-1924	2.3	12
85	ON-SKY DEMONSTRATION OF A LINEAR BAND-LIMITED MASK WITH APPLICATION TO VISUAL BINARY STARS. <i>Astrophysical Journal</i> , <b>2010</b> , 715, 1533-1538	4.7	12
84	Transport properties of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> films (0.15 ≤ x ≤ 0.5). <i>Physica B: Condensed Matter</i> , <b>2002</b> , 324, 205-216	6.8	12
83	Tri-gate GaN junction HEMT. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 143506	3.4	12
82	Effect of proton irradiation dose on InAlN/GaN metal-oxide semiconductor high electron mobility transistors with Al <sub>2</sub> O <sub>3</sub> gate oxide. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 051202	1.3	12
81	Controlled Nanopatterning of a Polymerized Ionic Liquid in a Strong Electric Field. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 805-811	15.6	11
80	Stability of Ti/Al/ZrB <sub>2</sub> /Ti/Au ohmic contacts on n-GaN. <i>Applied Surface Science</i> , <b>2006</b> , 253, 2340-2344	6.7	11
79	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14722-14733	9.5	10
78	Room-Temperature-Deposited Indium-Zinc Oxide Thin Films with Controlled Conductivity. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, H267		10

77	Use of TiB <sub>2</sub> diffusion barriers for Ni/Au ohmic contacts on p-GaN. <i>Applied Surface Science</i> , <b>2006</b> , 253, 1255-1259	6.7	10
76	Single-mode porous silicon waveguide interferometers with unity confinement factors for ultra-sensitive surface adlayer sensing. <i>Optics Express</i> , <b>2019</b> , 27, 22485-22498	3.3	10
75	Nanoscale pillar arrays for separations. <i>Analyst, The</i> , <b>2015</b> , 140, 3347-51	5	9
74	On Field-Effect Photovoltaics: Gate Enhancement of the Power Conversion Efficiency in a Nanotube/Silicon-Nanowire Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21182-7	9.5	9
73	Exploring Polarization Rotation Instabilities in Super-Tetragonal BiFeO <sub>3</sub> Epitaxial Thin Films and Their Technological Implications. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600307	6.4	9
72	Growth of skyrmionic MnSi nanowires on Si: Critical importance of the SiO <sub>2</sub> layer. <i>Nano Research</i> , <b>2014</b> , 7, 1788-1796	10	9
71	Proton irradiation energy dependence of dc and rf characteristics on InAlN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 041206	1.3	9
70	Retention in Porous Layer Pillar Array Planar Separation Platforms. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8741-8.8	9	
69	Effect of proton irradiation energy on AlGaN/GaN metal-oxide semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 051208	1.3	8
68	A half wave retarder made of bilayer subwavelength metallic apertures. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 151107	3.4	8
67	Influence of the film properties on the plasma etching dynamics of rf-sputtered indium zinc oxide layers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2007</b> , 25, 659-665	2.9	8
66	W <sub>2</sub> B and CrB <sub>2</sub> diffusion barriers for Ni/Au contacts to p-GaN. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 042105	3.4	8
65	Annealing and measurement temperature dependence of W <sub>2</sub> B <sub>5</sub> -based rectifying contacts to n-GaN. <i>Applied Surface Science</i> , <b>2006</b> , 252, 5814-5819	6.7	8
64	Thermal stability of W <sub>2</sub> B and W <sub>2</sub> B <sub>5</sub> contacts on ZnO. <i>Applied Surface Science</i> , <b>2005</b> , 252, 1846-1853	6.7	8
63	CrB <sub>2</sub> Schottky Barrier Contacts on n-GaN. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, G804	3.9	8
62	Thermal stability of Ohmic contacts to InN. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 162107	3.4	7
61	W <sub>2</sub> B-based ohmic contacts to n-GaN. <i>Applied Surface Science</i> , <b>2005</b> , 252, 1826-1832	6.7	7
60	Influence of charge ordering and phase separation on transport properties of Pr <sub>0.65</sub> Ca <sub>0.35</sub> MnO <sub>3</sub> films. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 307, 239-246	2.8	7



59	Atomic manipulation for patterning ultrathin films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1995</b> , 13, 2828		7
58	Cavitation on deterministically nanostructured surfaces in contact with an aqueous phase: a small-angle neutron scattering study. <i>Langmuir</i> , <b>2014</b> , 30, 9985-90	4	6
57	Nanopillar Based Enhanced-Fluorescence Detection of Surface-Immobilized Beryllium. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6814-21	7.8	6
56	GaN metal-insulator-semiconductor high-electron-mobility transistor with plasma enhanced atomic layer deposited AlN as gate dielectric and passivation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 052201	1.3	6
55	Fabrication of InAlAs/InGaAsSb/InGaAs double heterojunction bipolar transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 031205	1.3	6
54	Effects of semiconductor processing chemicals on conductivity of graphene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 040602	1.3	6
53	ZrB <sub>2</sub> /Pt/Au Ohmic contacts on bulk, single-crystal ZnO. <i>Applied Surface Science</i> , <b>2006</b> , 253, 2465-2469	6.7	6
52	Topological nanophotonics for photoluminescence control. <i>Nanophotonics</i> , <b>2020</b> , 10, 435-441	6.3	6
51	Large-Scale Metasurfaces Based on Grayscale Nanosphere Lithography. <i>ACS Photonics</i> , <b>2021</b> , 8, 1824-1831	3.1	6
50	To switch or not to switch: a machine learning approach for ferroelectricity. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2063-2072	5.1	6
49	Surface Modification of Silicon Pillar Arrays To Enhance Fluorescence Detection of Uranium and DNA. <i>ACS Omega</i> , <b>2017</b> , 2, 7313-7319	3.9	5
48	Degradation mechanisms of Ti/Al/Ni/Au-based Ohmic contacts on AlGaIn/GaN HEMTs. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 031212	1.3	5
47	Performance Characteristics of Bio-Inspired Metal Nanostructures as Surface-Enhanced Raman Scattered (SERS) Substrates. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1432-45	3.1	5
46	Normally-on/off AlN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2415-2418		5
45	Dimensionality Effects in FeGe Nanowires: Enhanced Anisotropic Magnetization and Anomalous Electrical Transport. <i>Scientific Reports</i> , <b>2017</b> , 7, 7126	4.9	4
44	Passivation of AlN/GaN high electron mobility transistor using ozone treatment. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, 52-55	1.3	4
43	Ir-Based Schottky and Ohmic Contacts on n-GaN. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, H584	3.9	4
42	A new approach for probing matter in periodic nanoconfinements using neutron scattering. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 1367-1373	3.8	4



41	Evaluation of AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors grown on ZrTi buffer layers with sapphire substrates. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 051208	1.3	4
40	Optical diffraction properties of multimicrogratings. <i>Applied Optics</i> , <b>2015</b> , 54, 1808	1.7	3
39	Improvement of drain breakdown voltage with a back-side gate on AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 042201	1.3	3
38	Suspended micro-ring resonator for enhanced biomolecule detection sensitivity <b>2014</b> ,		3
37	A robust VACNF platform for electrochemical biosensor <b>2013</b> ,		3
36	Comparison of DC performance of Pt/Ti/Au- and Ni/Au-gated AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 042202	1.3	3
35	SnO <sub>2</sub> -gated AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors based oxygen sensors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 041214	1.3	3
34	Thermally Stable TiB[sub 2] Ohmic Contacts on n-ZnO. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, G164		3
33	Improved Thermal Stability CrB <sub>2</sub> Contacts on ZnO. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 7291-7295		3
32	All-Dielectric Meta-Optics for High-Efficiency Independent Amplitude and Phase Manipulation. <i>Advanced Photonics Research</i> , <b>2022</b> , 3, 2100285	1.9	3
31	In Situ Formation of Micron-Scale Li-Metal Anodes with High Cyclability. <i>ECS Electrochemistry Letters</i> , <b>2013</b> , 3, A4-A7		2
30	Quenching of initial ac susceptibility in single-domain Ni nanobars. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	2
29	RF-sputtered CrB <sub>2</sub> diffusion barrier for Ni/Au Ohmic contacts on p-CuCrO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2008</b> , 254, 5211-5215	6.7	2
28	Ir/Au Ohmic Contacts on Bulk, Single-Crystal n-Type ZnO. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, H161	3.9	2
27	ZrB <sub>2</sub> -based Ohmic contacts to p-GaN. <i>Applied Surface Science</i> , <b>2006</b> , 253, 1934-1938	6.7	2
26	Observation of resistance switching between insulating and metallic states in nano-crystalline La <sub>0.65</sub> Ca <sub>0.35</sub> MnO <sub>3</sub> film. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 334, 403-407	2.8	2
25	Nature of critical current and coherent phenomena in granular MoN <sub>x</sub> thin films. <i>Low Temperature Physics</i> , <b>2000</b> , 26, 881-885	0.7	2
24	Quantum imaging with dielectric metasurfaces for multi-photon polarization tomography <b>2017</b> ,		2

23	Third-Harmonic Generation from Photonic Topological States in Zigzag Arrays of Silicon Nanodisks <b>2017</b> ,		2
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16	Optical and infrared properties of glancing angle-deposited nanostructured tungsten films. <i>Optics Letters</i> , <b>2015</b> , 40, 506-9	3	1
15	Proton irradiation effects on Sb-based heterojunction bipolar transistors. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, L33		1
14	Improved Off-State Stress Critical Voltage on AlGaIn/GaN High Electron Mobility Transistors Utilizing Pt/Ti/Au Based Gate Metallization. <i>ECS Transactions</i> , <b>2011</b> , 41, 63-70	1	1
13	Improved Long-Term Thermal Stability At 350°C Of TiB <sub>2</sub> Based Ohmic Contacts On AlGaIn/GaN High Electron Mobility Transistors. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 379-383	1.9	1
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