

Ivan I Kravchenko

List of Publications by Year in Descending Order

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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.

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	All-Dielectric Meta-Optics for High-Efficiency Independent Amplitude and Phase Manipulation. <i>Advanced Photonics Research</i> , 2022 , 3, 2100285	1.9	3
165	Gold Ion Beam Milled Gold Zero-Mode Waveguides. <i>Nanomaterials</i> , 2022 , 12, 1755	5.4	0
164	Large-Scale Metasurfaces Based on Grayscale Nanosphere Lithography. <i>ACS Photonics</i> , 2021 , 8, 1824-1831	3.3	6
163	Demonstration of Large-Size Vertical Ga ₂ O ₃ Schottky Barrier Diodes. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 41-44	7.2	19
162	Large area vertical Ga ₂ O ₃ Schottky diodes for X-ray detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 1013, 165664	1.2	1
161	Piezoelectric Actuation of Graphene-Coated Polar Structures. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 2142-2147	3.2	1
160	Flat optics for image differentiation. <i>Nature Photonics</i> , 2020 , 14, 316-323	33.9	114
159	High-efficiency solar thermophotovoltaic system using a nanostructure-based selective emitter. <i>Solar Energy</i> , 2020 , 197, 538-545	6.8	38
158	Topological nanophotonics for photoluminescence control. <i>Nanophotonics</i> , 2020 , 10, 435-441	6.3	6
157	Consideration of temperature-dependent emissivity of selective emitters in thermophotovoltaic systems. <i>Applied Optics</i> , 2020 , 59, 5457	1.7	1
156	Mie-Resonant Membrane Huygens Metasurfaces. <i>Advanced Functional Materials</i> , 2020 , 30, 1906851	15.6	21
155	Tri-gate GaN junction HEMT. <i>Applied Physics Letters</i> , 2020 , 117, 143506	3.4	12
154	To switch or not to switch: a machine learning approach for ferroelectricity. <i>Nanoscale Advances</i> , 2020 , 2, 2063-2072	5.1	6
153	Multifunctional metaoptics based on bilayer metasurfaces. <i>Light: Science and Applications</i> , 2019 , 8, 80	16.7	59
152	Surface-Enhanced Raman Scattering (SERS) Studies of Disc-on-Pillar (DOP) Arrays: Contrasting Enhancement Factor with Analytical Performance. <i>Applied Spectroscopy</i> , 2019 , 73, 665-677	3.1	1
151	Dielectric Broadband Metasurfaces for Fiber Mode-Multiplexed Communications. <i>Advanced Optical Materials</i> , 2019 , 7, 1801679	8.1	14
150	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14722-14733	9.5	10

149	Disorder-Robust Nonlinear Light Generation in Topological Nanostructures 2019 ,		1
148	Photonic crystal nanobeam biosensors based on porous silicon. <i>Optics Express</i> , 2019 , 27, 9536-9549	3.3	27
147	Single-mode porous silicon waveguide interferometers with unity confinement factors for ultra-sensitive surface adlayer sensing. <i>Optics Express</i> , 2019 , 27, 22485-22498	3.3	10
146	Nonlinear light generation in topological nanostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 126-130	28.7	116
145	Direct atomic fabrication and dopant positioning in Si using electron beams with active real-time image-based feedback. <i>Nanotechnology</i> , 2018 , 29, 255303	3.4	31
144	Grating-based holographic diffraction methods for X-rays and neutrons: phase object approximation and dynamical theory. <i>Journal of Applied Crystallography</i> , 2018 , 51, 68-75	3.8	1
143	Dynamic transmission control based on all-dielectric Huygens metasurfaces. <i>Optica</i> , 2018 , 5, 787	8.6	89
142	Label-free detection of Herceptin \square using suspended silicon microring resonators. <i>Sensors and Actuators B: Chemical</i> , 2018 , 275, 394-401	8.5	12
141	Zika virus detection using antibody-immobilized disposable cover glass and AlGaIn/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , 2018 , 113, 032101	3.4	18
140	Nonlinear Wavefront Control with All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2018 , 18, 3978-3984	11.5	104
139	Multilayer Noninteracting Dielectric Metasurfaces for Multiwavelength Metaoptics. <i>Nano Letters</i> , 2018 , 18, 7529-7537	11.5	102
138	Quantum metasurface for multiphoton interference and state reconstruction. <i>Science</i> , 2018 , 361, 1104-1108	33.9	127
137	Transparent Dielectric Metasurfaces for Spatial Mode Multiplexing. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800031	8.3	27
136	Shaping the third-harmonic radiation from silicon nanodimers. <i>Nanoscale</i> , 2017 , 9, 2201-2206	7.7	39
135	Edge States and Topological Phase Transitions in Chains of Dielectric Nanoparticles. <i>Small</i> , 2017 , 13, 1603190	11	56
134	Metasurface polarization splitter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	16
133	Quantification of in-contact probe-sample electrostatic forces with dynamic atomic force microscopy. <i>Nanotechnology</i> , 2017 , 28, 065704	3.4	37
132	Surface Modification of Silicon Pillar Arrays To Enhance Fluorescence Detection of Uranium and DNA. <i>ACS Omega</i> , 2017 , 2, 7313-7319	3.9	5

131	Improvement of Ohmic contacts on Ga ₂ O ₃ through use of ITO-interlayers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2017 , 35, 061201	1.3	27
130	Atom-by-atom fabrication by electron beam via induced phase transformations. <i>MRS Bulletin</i> , 2017 , 42, 653-659	3.2	16
129	Ohmic contacts on n-type Ga ₂ O ₃ using AZO/Ti/Au. <i>AIP Advances</i> , 2017 , 7, 095313	1.5	32
128	Dimensionality Effects in FeGe Nanowires: Enhanced Anisotropic Magnetization and Anomalous Electrical Transport. <i>Scientific Reports</i> , 2017 , 7, 7126	4.9	4
127	AlGa _N /Ga _N High Electron Mobility Transistor Grown and Fabricated on ZrTi Metallic Alloy Buffer Layers. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, S3078-S3080	2	1
126	Quantum imaging with dielectric metasurfaces for multi-photon polarization tomography 2017 ,		2
125	Third-Harmonic Generation from Photonic Topological States in Zigzag Arrays of Silicon Nanodisks 2017 ,		2
124	Quantum tomography with all-dielectric metasurfaces 2017 ,		1
123	Performance Characteristics of Bio-Inspired Metal Nanostructures as Surface-Enhanced Raman Scattered (SERS) Substrates. <i>Applied Spectroscopy</i> , 2016 , 70, 1432-45	3.1	5
122	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. <i>ACS Photonics</i> , 2016 , 3, 2389-2395	6.3	34
121	Exploring Polarization Rotation Instabilities in Super-Tetragonal BiFeO ₃ Epitaxial Thin Films and Their Technological Implications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600307	6.4	9
120	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , 2016 , 2, e1501882	14.3	190
119	Slow light Mach-Zehnder interferometer as label-free biosensor with scalable sensitivity. <i>Optics Letters</i> , 2016 , 41, 753-6	3	38
118	Thickness-dependent charge transport in few-layer MoS ₂ field-effect transistors. <i>Nanotechnology</i> , 2016 , 27, 165203	3.4	96
117	Grayscale transparent metasurface holograms. <i>Optica</i> , 2016 , 3, 1504	8.6	216
116	Lithography-Free Large-Area Metamaterials for Stable Thermophotovoltaic Energy Conversion. <i>Advanced Optical Materials</i> , 2016 , 4, 671-676	8.1	18
115	Evaluation of AlGa _N /Ga _N high electron mobility transistors grown on ZrTi buffer layers with sapphire substrates. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2016 , 34, 051208	1.3	4
114	Effect of proton irradiation dose on InAlN/Ga _N metal-oxide semiconductor high electron mobility transistors with Al ₂ O ₃ gate oxide. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2016 , 34, 051202	1.3	12

113	Invited Article: Broadband highly efficient dielectric metadevices for polarization control. <i>APL Photonics</i> , 2016 , 1, 030801	5.2	248
112	Retention in Porous Layer Pillar Array Planar Separation Platforms. <i>Analytical Chemistry</i> , 2016 , 88, 8741-8.8	9	
111	Bias assisted scanning probe microscopy direct write lithography enables local oxygen enrichment of lanthanum cuprates thin films. <i>Nanotechnology</i> , 2015 , 26, 325302	3.4	1
110	Study of the effects of GaN buffer layer quality on the dc characteristics of AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015 , 33, 031210	1.3	1
109	Nanoscale pillar arrays for separations. <i>Analyst, The</i> , 2015 , 140, 3347-51	5	9
108	Enhanced absorption in two-dimensional materials via Fano-resonant photonic crystals. <i>Applied Physics Letters</i> , 2015 , 106, 181104	3.4	74
107	Degradation mechanisms of Ti/Al/Ni/Au-based Ohmic contacts on AlGaN/GaN HEMTs. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015 , 33, 031212	1.3	5
106	Large-Scale All-Dielectric Metamaterial Perfect Reflectors. <i>ACS Photonics</i> , 2015 , 2, 692-698	6.3	223
105	Optical diffraction properties of multimicrogratings. <i>Applied Optics</i> , 2015 , 54, 1808	1.7	3
104	Nonlinear Fano-Resonant Dielectric Metasurfaces. <i>Nano Letters</i> , 2015 , 15, 7388-93	11.5	347
103	Improvement of drain breakdown voltage with a back-side gate on AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2015 , 33, 042201	1.3	3
102	On Field-Effect Photovoltaics: Gate Enhancement of the Power Conversion Efficiency in a Nanotube/Silicon-Nanowire Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21182-7	9.5	9
101	Ion transport and softening in a polymerized ionic liquid. <i>Nanoscale</i> , 2015 , 7, 947-55	7.7	14
100	Direct Measurement of Optical Force Induced by Near-Field Plasmonic Cavity Using Dynamic Mode AFM. <i>Scientific Reports</i> , 2015 , 5, 16216	4.9	20
99	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> , 2015 , 33, 051208	1.3	8
98	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , 2015 , 118, 244103	2.5	16
97	Controlled Nanopatterning of a Polymerized Ionic Liquid in a Strong Electric Field. <i>Advanced Functional Materials</i> , 2015 , 25, 805-811	15.6	11
96	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , 2015 , 9, 6484-92	16.7	191

95	Nanopillar Based Enhanced-Fluorescence Detection of Surface-Immobilized Beryllium. <i>Analytical Chemistry</i> , 2015 , 87, 6814-21	7.8	6
94	Optical and infrared properties of glancing angle-deposited nanostructured tungsten films. <i>Optics Letters</i> , 2015 , 40, 506-9	3	1
93	Probing local bias-induced transitions using photothermal excitation contact resonance atomic force microscopy and voltage spectroscopy. <i>ACS Nano</i> , 2015 , 9, 1848-57	16.7	35
92	Controlled vapor phase growth of single crystalline, two-dimensional GaSe crystals with high photoresponse. <i>Scientific Reports</i> , 2014 , 4, 5497	4.9	194
91	Exploring local electrostatic effects with scanning probe microscopy: implications for piezoresponse force microscopy and triboelectricity. <i>ACS Nano</i> , 2014 , 8, 10229-36	16.7	110
90	Cavitation on deterministically nanostructured surfaces in contact with an aqueous phase: a small-angle neutron scattering study. <i>Langmuir</i> , 2014 , 30, 9985-90	4	6
89	Dielectric meta-reflectarray for broadband linear polarization conversion and optical vortex generation. <i>Nano Letters</i> , 2014 , 14, 1394-9	11.5	720
88	Enhancing the Sensitivity of Label-Free Silicon Photonic Biosensors through Increased Probe Molecule Density. <i>ACS Photonics</i> , 2014 , 1, 590-597	6.3	32
87	Direct probing of charge injection and polarization-controlled ionic mobility on ferroelectric LiNbO(3) surfaces. <i>Advanced Materials</i> , 2014 , 26, 958-63	24	44
86	Characteristics of gate leakage current and breakdown voltage of AlGa _N /Ga _N high electron mobility transistors after postprocess annealing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 052201	1.3	13
85	Effect of low dose irradiation on DC performance of circular AlGa _N /Ga _N high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 031203	1.3	19
84	Suspended micro-ring resonator for enhanced biomolecule detection sensitivity 2014 ,		3
83	All-dielectric metasurface analogue of electromagnetically induced transparency. <i>Nature Communications</i> , 2014 , 5, 5753	17.4	582
82	Growth of skyrmionic MnSi nanowires on Si: Critical importance of the SiO ₂ layer. <i>Nano Research</i> , 2014 , 7, 1788-1796	10	9
81	A new approach for probing matter in periodic nanoconfinements using neutron scattering. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1367-1373	3.8	4
80	Space- and time-resolved mapping of ionic dynamic and electroresistive phenomena in lateral devices. <i>ACS Nano</i> , 2013 , 7, 6806-15	16.7	38
79	Probing local ionic dynamics in functional oxides at the nanoscale. <i>Nano Letters</i> , 2013 , 13, 3455-62	11.5	49
78	Silicon nanopillars as a platform for enhanced fluorescence analysis. <i>Analytical Chemistry</i> , 2013 , 85, 9031-8	17.8	27

77	Realization of an all-dielectric zero-index optical metamaterial. <i>Nature Photonics</i> , 2013 , 7, 791-795	33.9	457
76	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> , 2013 , 135, 3680-7	16.4	117
75	Casimir forces on a silicon micromechanical chip. <i>Nature Communications</i> , 2013 , 4, 1845	17.4	88
74	A robust VACNF platform for electrochemical biosensor 2013 ,		3
73	Effect of buffer structures on AlGaIn/GaN high electron mobility transistor reliability. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2013 , 31, 011805	1.3	16
72	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> , 2013 , 31, 052201	1.3	6
71	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> , 2013 , 31, 042202	1.3	20
70	Growth diagram of La _{0.7} Sr _{0.3} MnO ₃ thin films using pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013 , 113, 234301	2.5	18
69	Dependence on proton energy of degradation of AlGaIn/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2013 , 31, 022201	1.3	29
68	In Situ Formation of Micron-Scale Li-Metal Anodes with High Cyclability. <i>ECS Electrochemistry Letters</i> , 2013 , 3, A4-A7		2
67	Silicon nanopillars for field-enhanced surface spectroscopy. <i>ACS Nano</i> , 2012 , 6, 2948-59	16.7	71
66	Doping-based stabilization of the M2 phase in free-standing VO ₂ nanostructures at room temperature. <i>Nano Letters</i> , 2012 , 12, 6198-205	11.5	120
65	UV ozone treatment for improving contact resistance on graphene. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2012 , 30, 060604	1.3	27
64	SnO ₂ -gated AlGaIn/GaN high electron mobility transistors based oxygen sensors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2012 , 30, 041214	1.3	3
63	Effects of semiconductor processing chemicals on conductivity of graphene. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2012 , 30, 040602	1.3	6
62	Quenching of initial ac susceptibility in single-domain Ni nanobars. <i>Physical Review B</i> , 2012 , 85,	3.3	2
61	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> , 2012 , 30, 041206	1.3	9
60	Nanotransfer printing using plasma etched silicon stamps and mediated by in situ deposited fluoropolymer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7722-4	16.4	12

59	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , 2011 , 5, 9104-12	16.7	65
58	Low-voltage, low-power, organic light-emitting transistors for active matrix displays. <i>Science</i> , 2011 , 332, 570-3	33.3	405
57	Stamping plasmonic nanoarrays on SERS-supporting platforms. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1916-1924	2.3	12
56	Comparison of DC performance of Pt/Ti/Au- and Ni/Au-gated AlGa _N /Ga _N high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 042202	1.3	3
55	A half wave retarder made of bilayer subwavelength metallic apertures. <i>Applied Physics Letters</i> , 2011 , 98, 151107	3.4	8
54	Fabrication of InAlAs/InGaAsSb/InGaAs double heterojunction bipolar transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 031205	1.3	6
53	Improvement of Off-State Stress Critical Voltage by Using Pt-Gated AlGa _N /Ga _N High Electron Mobility Transistors. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, H264		19
52	Effects of proton irradiation on dc characteristics of InAlN/Ga _N high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 061201	1.3	17
51	Improved Off-State Stress Critical Voltage on AlGa _N /Ga _N High Electron Mobility Transistors Utilizing Pt/Ti/Au Based Gate Metallization. <i>ECS Transactions</i> , 2011 , 41, 63-70	1	1
50	Passivation of AlN/Ga _N high electron mobility transistor using ozone treatment. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 52-55	1.3	4
49	Isolation blocking voltage of nitrogen ion-implanted AlGa _N /Ga _N high electron mobility transistor structure. <i>Applied Physics Letters</i> , 2010 , 97, 262116	3.4	43
48	Optical transmission through double-layer, laterally shifted metallic subwavelength hole arrays. <i>Optics Letters</i> , 2010 , 35, 2124-6	3	14
47	ON-SKY DEMONSTRATION OF A LINEAR BAND-LIMITED MASK WITH APPLICATION TO VISUAL BINARY STARS. <i>Astrophysical Journal</i> , 2010 , 715, 1533-1538	4.7	12
46	Normally-on/off AlN/Ga _N high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2415-2418		5
45	Proton irradiation effects on Sb-based heterojunction bipolar transistors. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, L33		1
44	Development of enhancement mode AlN/Ga _N high electron mobility transistors. <i>Applied Physics Letters</i> , 2009 , 94, 263505	3.4	43
43	High-Performance Indium Gallium Zinc Oxide Transparent Thin-Film Transistors Fabricated by Radio-Frequency Sputtering. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H383	3.9	87
42	Stable room temperature deposited amorphous InGaZnO ₄ thin film transistors. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 959		60

41	Indium zinc oxide thin films deposited by sputtering at room temperature. <i>Applied Surface Science</i> , 2008 , 254, 2878-2881	6.7	31
40	Ir Diffusion Barriers in Ni/Au Ohmic Contacts to p-Type CuCrO ₂ . <i>Journal of Electronic Materials</i> , 2008 , 37, 161-166	1.9	1
39	High temperature Ohmic contacts to p-type GaN for use in light emitting applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2241-2243		
38	RF-sputtered CrB ₂ diffusion barrier for Ni/Au Ohmic contacts on p-CuCrO ₂ . <i>Applied Surface Science</i> , 2008 , 254, 5211-5215	6.7	2
37	Room-Temperature-Deposited Indium-Zinc Oxide Thin Films with Controlled Conductivity. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H267		10
36	Room temperature deposited indium zinc oxide thin film transistors. <i>Applied Physics Letters</i> , 2007 , 90, 232103	3.4	122
35	Improved Long-Term Thermal Stability At 350°C Of TiB ₂ Based Ohmic Contacts On AlGaIn/GaN High Electron Mobility Transistors. <i>Journal of Electronic Materials</i> , 2007 , 36, 379-383	1.9	1
34	Thermal Stability of Nitride-Based Diffusion Barriers for Ohmic Contacts to n-GaN. <i>Journal of Electronic Materials</i> , 2007 , 36, 1662-1668	1.9	1
33	Ir/Au Ohmic Contacts on Bulk, Single-Crystal n-Type ZnO. <i>Journal of the Electrochemical Society</i> , 2007 , 154, H161	3.9	2
32	Nanolithographic patterning of transparent, conductive single-walled carbon nanotube films by inductively coupled plasma reactive ion etching. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 348		44
31	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> , 2007 , 25, 659-665	2.9	8
30	W ₂ B and CrB ₂ diffusion barriers for Ni/Au contacts to p-GaN. <i>Applied Physics Letters</i> , 2007 , 91, 042105	3.4	8
29	Ohmic contacts to p-type GaN based on TaN, TiN, and ZrN. <i>Applied Physics Letters</i> , 2007 , 90, 212107	3.4	15
28	Ir-Based Schottky and Ohmic Contacts on n-GaN. <i>Journal of the Electrochemical Society</i> , 2007 , 154, H584	3.9	4
27	Thermal stability of Ohmic contacts to InN. <i>Applied Physics Letters</i> , 2007 , 90, 162107	3.4	7
26	Annealing temperature dependence of TiB ₂ schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , 2006 , 35, 658-662	1.9	1
25	Comparison of electrical and reliability performances of TiB ₂ -, CrB ₂ -, and W ₂ B ₅ -based Ohmic contacts on n-GaN. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 744		13
24	Thermally Stable TiB ₂ Ohmic Contacts on n-ZnO. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G164		3

23	Improved thermally stable ohmic contacts on p-GaN based on W2B. <i>Applied Physics Letters</i> , 2006 , 88, 012104	3.4	13
22	The contribution of valence unstable ytterbium states into kinetic properties of YbNi ₂ Ge _{2+x} and YbCu ₂ Si _{2+x} . <i>Journal of Alloys and Compounds</i> , 2006 , 425, 54-58	5.7	
21	Annealing and measurement temperature dependence of W2B5-based rectifying contacts to n-GaN. <i>Applied Surface Science</i> , 2006 , 252, 5814-5819	6.7	8
20	Use of TiB ₂ diffusion barriers for Ni/Au ohmic contacts on p-GaN. <i>Applied Surface Science</i> , 2006 , 253, 1255-1259	6.7	10
19	ZrB ₂ -based Ohmic contacts to p-GaN. <i>Applied Surface Science</i> , 2006 , 253, 1934-1938	6.7	2
18	ZrB ₂ Schottky diode contacts on n-GaN. <i>Applied Surface Science</i> , 2006 , 253, 2315-2319	6.7	14
17	Stability of Ti/Al/ZrB ₂ /Ti/Au ohmic contacts on n-GaN. <i>Applied Surface Science</i> , 2006 , 253, 2340-2344	6.7	11
16	ZrB ₂ /Pt/Au Ohmic contacts on bulk, single-crystal ZnO. <i>Applied Surface Science</i> , 2006 , 253, 2465-2469	6.7	6
15	Thermal stability of W2B and W2B5 contacts on ZnO. <i>Applied Surface Science</i> , 2005 , 252, 1846-1853	6.7	8
14	W2B-based ohmic contacts to n-GaN. <i>Applied Surface Science</i> , 2005 , 252, 1826-1832	6.7	7
13	W2B-based rectifying contacts to n-GaN. <i>Applied Physics Letters</i> , 2005 , 87, 052110	3.4	21
12	CrB ₂ Schottky Barrier Contacts on n-GaN. <i>Journal of the Electrochemical Society</i> , 2005 , 152, G804	3.9	8
11	Improved Thermal Stability CrB ₂ Contacts on ZnO. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7291-7295	4.5	3
10	Proton induced X-ray emission analysis of aberrant cowrie shells. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 215, 223-227	1.2	
9	Effect of deposition conditions and annealing on W Schottky contacts on n-GaN. <i>Materials Science in Semiconductor Processing</i> , 2004 , 7, 95-98	4.3	14
8	Observation of resistance switching between insulating and metallic states in nano-crystalline La _{0.65} Ca _{0.35} MnO ₃ film. <i>Physica B: Condensed Matter</i> , 2003 , 334, 403-407	2.8	2
7	Some details of the electronic structure of tin oxide films. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 238, 7-10	1.3	
6	Transport properties of La _{1-x} Sr _x CoO ₃ films (0.15 ≤ x ≤ 0.5). <i>Physica B: Condensed Matter</i> , 2002 , 324, 205-216	6.8	12

5	Elemental analysis of bone: proton-induced X-ray emission testing in forensic cases. <i>Forensic Science International</i> , 2002 , 125, 37-41	2.6	37
4	Influence of charge ordering and phase separation on transport properties of Pr _{0.65} Ca _{0.35} MnO ₃ films. <i>Physica B: Condensed Matter</i> , 2001 , 307, 239-246	2.8	7
3	Nature of critical current and coherent phenomena in granular MoN _x thin films. <i>Low Temperature Physics</i> , 2000 , 26, 881-885	0.7	2
2	STM studies of the initial stages of growth of Sb on Si(100) surfaces. <i>Surface Science</i> , 1999 , 423, 43-52	1.8	18
1	Atomic manipulation for patterning ultrathin films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995 , 13, 2828		7