

# Michael S Shur

## 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.

1,081  
papers

32,478  
citations

86  
h-index

144  
g-index

1,256  
ext. papers

36,625  
ext. citations

2.5  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
1081	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , <b>2022</b> ,	6.3	3
1080	LOW-FREQUENCY NOISE IN AlGa <sub>N</sub> /Ga <sub>N</sub> HETEROSTRUCTURE FIELD EFFECT TRANSISTORS AND METAL OXIDE SEMICONDUCTOR HETEROSTRUCTURE FIELD EFFECT TRANSISTORS <b>2022</b> , 419-424		
1079	Coulomb drag and plasmonic effects in graphene field-effect transistors enable resonant terahertz detection. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 111102	3.4	0
1078	Cubic boron nitride as a material for future electron device applications: A comparative analysis. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 122105	3.4	2
1077	Giant inverse Faraday effect in a plasmonic crystal ring.. <i>Optics Express</i> , <b>2022</b> , 30, 13733-13744	3.3	
1076	A low-field electron mobility analysis of cubic boron nitride. <i>Solid State Communications</i> , <b>2022</b> , 114776	1.6	0
1075	Plasmonic Field-Effect Transistors (TeraFETs) for 6G Communications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	6
1074	TeraFET terahertz detectors with spatially non-uniform gate capacitances. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 161104	3.4	1
1073	An improved empirical model for a semiconductor velocity-field characteristic applied to gallium arsenide. <i>Solid State Communications</i> , <b>2021</b> , 330, 114240	1.6	
1072	Modulation characteristics of uncooled graphene photodetectors. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 214503	2.5	3
1071	Heat capacity of nonequilibrium electron-hole plasma in graphene layers and graphene bilayers. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
1070	Terahertz Plasmonic Technology. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 12752-12763	4	6
1069	Pandemic Equation for Describing and Predicting COVID19 Evolution. <i>Journal of Healthcare Informatics Research</i> , <b>2021</b> , 5, 1-13	4	1
1068	Frequency to digital conversion using Si TeraFETs. <i>Optical Engineering</i> , <b>2021</b> , 60,	1.1	2
1067	Collision dominated, ballistic, and viscous regimes of terahertz plasmonic detection by graphene. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 053102	2.5	5
1066	. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 903-910	2.9	2
1065	THz Plasma Field Effect Transistor Detectors <b>2021</b> , 285-322		1

1064	Coulomb electron drag mechanism of terahertz plasma instability in n+i-n-n+ graphene FETs with ballistic injection. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 093501	3.4	6
1063	Biomedical and Biotechnology Applications of Deep Ultraviolet Light Emitting Diodes <b>2021</b> ,		1
1062	Chip-Scale Droop-Free Fin Light-Emitting Diodes Using Facet-Selective Contacts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44663-44672	9.5	2
1061	AI-Powered Terahertz VLSI Testing Technology for Ensuring Hardware Security and Reliability. <i>IEEE Access</i> , <b>2021</b> , 9, 64499-64509	3.5	2
1060	Theoretical analysis of injection driven thermal light emitters based on graphene encapsulated by hexagonal boron nitride. <i>Optical Materials Express</i> , <b>2021</b> , 11, 468	2.6	4
1059	Electron transport within bulk cubic boron nitride: A Monte Carlo simulation analysis. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 185704	2.5	3
1058	Multiple graphene-layer-based heterostructures with van der Waals barrier layers for terahertz superluminescent and laser diodes with lateral/vertical current injection. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 085023	1.8	2
1057	Plasmonic instabilities in two-dimensional electron channels of variable width. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
1056	Plasmonic FET Terahertz Spectrometer. <i>IEEE Access</i> , <b>2020</b> , 8, 56039-56044	3.5	7
1055	Soft Printable Electrode Coating for Neural Interfaces.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 4388-4397	4.1	17
1054	Graphene based plasma-wave devices for terahertz applications. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 140504		21
1053	Si, SiGe, InP, III-N, and p-diamond FETs and HBTs for sub-terahertz and terahertz applications <b>2020</b> ,		3
1052	Far-infrared photodetectors based on graphene/black-AsP heterostructures. <i>Optics Express</i> , <b>2020</b> , 28, 2480-2498	3.3	15
1051	Far-infrared and terahertz emitting diodes based on graphene/black-P and graphene/MoS heterostructures. <i>Optics Express</i> , <b>2020</b> , 28, 24136-24151	3.3	4
1050	(Invited) Percolation Carbon Nanotube Thin Film Transistors. <i>ECS Transactions</i> , <b>2020</b> , 98, 161-171	1	
1049	Sub-terahertz FET detector with self-assembled Sn-nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 075102	3	4
1048	Sensitivity analysis for an electron transport system: application to the case of wurtzite gallium nitride. <i>Journal of Computational Electronics</i> , <b>2020</b> , 19, 103-110	1.8	0
1047	TCAD Model for TeraFET Detectors Operating in a Large Dynamic Range. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 10, 15-20	3.4	4

1046	(Keynote) Terahertz Nanoplasmonics Technology: Physics, Applications, and Commercialization. <i>ECS Transactions</i> , <b>2020</b> , 97, 369-381	1	3
1045	p-Diamond, Si, GaN, and InGaAs TeraFETs. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4858-4865	2.9	5
1044	Hydrodynamic inverse Faraday effect in a two-dimensional electron liquid. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
1043	Carbon Nanotube Detectors and Spectrometers for the Terahertz Range. <i>Crystals</i> , <b>2020</b> , 10, 601	2.3	3
1042	AI Powered THz VLSI Testing Technology <b>2020</b> ,		2
1041	High-brightness lasing at submicrometer enabled by droop-free fin light-emitting diodes (LEDs). <i>Science Advances</i> , <b>2020</b> , 6, eaba4346	14.3	10
1040	AI Powered THz Testing Technology for Ensuring Hardware Cybersecurity <b>2020</b> ,		4
1039	Plasmonic polarization-sensitive detector of terahertz radiation. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1236, 012029	0.3	1
1038	Negative terahertz conductivity and amplification of surface plasmons in graphene/black phosphorus injection laser heterostructures. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	12
1037	Modelling of saturation current of an organic field-effect transistor with accounting for contact resistances. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 498, 012038	0.4	
1036	How changes in the crystal temperature and the doping concentration impact upon bulk wurtzite zinc oxide's electron transport response. <i>MRS Advances</i> , <b>2019</b> , 4, 2673-2678	0.7	
1035	Compact Terahertz SPICE/ADS Model. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 2496-2501	2.9	6
1034	Sub-terahertz testing of millimeter wave Monolithic and very large scale integrated circuits. <i>Solid-State Electronics</i> , <b>2019</b> , 155, 44-48	1.7	8
1033	Wide band gap semiconductor technology: State-of-the-art. <i>Solid-State Electronics</i> , <b>2019</b> , 155, 65-75	1.7	16
1032	Negative photoconductivity and hot-carrier bolometric detection of terahertz radiation in graphene-phosphorene hybrid structures. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 151608	2.5	9
1031	Concepts of infrared and terahertz photodetectors based on vertical graphene van der Waals and HgTe-CdHgTe heterostructures. <i>Opto-electronics Review</i> , <b>2019</b> , 27, 219-223	2.4	1
1030	An Efficient TCAD Model for TeraFET Detectors <b>2019</b> ,		2
1029	Empirical model for the velocity-field characteristics of semiconductors exhibiting negative differential mobility. <i>Solid State Communications</i> , <b>2019</b> , 299, 113658	1.6	2

1028	Optical pumping in graphene-based terahertz/far-infrared superluminescent and laser heterostructures with graded-gap black-PxAs <sub>1-x</sub> absorbing-cooling layers. <i>Optical Engineering</i> , <b>2019</b> , 59, 1	1.1	5
1027	Terahertz plasmonic field effect transistors for imaging applications <b>2019</b> ,		3
1026	THz photonic and plasmonic devices for sensing and communication applications <b>2019</b> ,		2
1025	Terahertz plasmonic detector controlled by phase asymmetry. <i>Optics Express</i> , <b>2019</b> , 27, 4004-4013	3.3	14
1024	Negative and positive terahertz and infrared photoconductivity in uncooled graphene. <i>Optical Materials Express</i> , <b>2019</b> , 9, 585	2.6	19
1023	Optical pumping through a black-As absorbing-cooling layer in graphene-based heterostructure: thermo-diffusion model. <i>Optical Materials Express</i> , <b>2019</b> , 9, 4061	2.6	7
1022	Graphene-based 2D-heterostructures for terahertz lasers and amplifiers <b>2019</b> ,		1
1021	Negative Terahertz Conductivity at Vertical Carrier Injection in a Black-Arsenic-Phosphorus/Graphene Heterostructure Integrated With a Light-Emitting Diode. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-9	3.8	1
1020	Plasmons in Ballistic Nanostructures With Stubs: Transmission Line Approach. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 126-131	2.9	7
1019	Plasmonic Helicity-Driven Detector of Terahertz Radiation. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800464	2.5	3
1018	Terahertz photoconductive emitter with dielectric-embedded high-aspect-ratio plasmonic grating for operation with low-power optical pumps. <i>AIP Advances</i> , <b>2019</b> , 9, 015112	1.5	27
1017	Comparison of Intersubband Quantum-Well and Interband Graphene-Layer Infrared Photodetectors. <i>IEEE Journal of Quantum Electronics</i> , <b>2018</b> , 54, 1-8	2	8
1016	Device model for pixelless infrared image up-converters based on polycrystalline graphene heterostructures. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 014503	2.5	2
1015	Manifestation of plasmonic response in the detection of sub-terahertz radiation by graphene-based devices. <i>Nanotechnology</i> , <b>2018</b> , 29, 245204	3.4	12
1014	Interband infrared photodetectors based on HgTe/HgTe quantum-well heterostructures. <i>Optical Materials Express</i> , <b>2018</b> , 8, 1349	2.6	10
1013	A steady-state and transient analysis of the electron transport that occurs within bulk wurtzite zinc-magnesium-oxide alloys subjected to high-fields. <i>MRS Advances</i> , <b>2018</b> , 3, 3439-3444	0.7	1
1012	Subterahertz and terahertz sensing of biological objects and chemical agents <b>2018</b> ,		6
1011	Plasmonic heterodimensional resonance for subwavelength imaging <b>2018</b> ,		4

1010	Plasmonic detectors and sources for THz communication and sensing <b>2018</b> ,		5
1009	Compact Terahertz SPICE Model: Effects of Drude Inductance and Leakage. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 5350-5356	2.9	7
1008	p-Diamond as candidate for plasmonic terahertz and far infrared applications. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 253502	3.4	14
1007	Electronic Devices Based on Group III Nitrides ? <b>2018</b> ,		1
1006	Current-Driven Dyakonov-Shur Instability in Ballistic Nanostructures with a Stub. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	8
1005	Electrical modulation of terahertz radiation using graphene-phosphorene heterostructures. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 124010	1.8	14
1004	Real-space-transfer mechanism of negative differential conductivity in gated graphene-phosphorene hybrid structures: Phenomenological heating model. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 114501	2.5	10
1003	Silicon and Silicon Germanium Terahertz Electronics <b>2018</b> ,		2
1002	Nanoscale silicon mosfet response to THz radiation for testing VLSI <b>2018</b> ,		5
1001	Plasmonic shock waves and solitons in a nanoring. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
1000	Dynamic Conductivity and Two-Dimensional Plasmons in Lateral CNT Networks. <i>International Journal of High Speed Electronics and Systems</i> , <b>2017</b> , 26, 1740004	0.5	
999	Ultimate limits for highest modulation frequency and shortest response time of field effect transistor <b>2017</b> ,		3
998	Development of Deep UV LEDs and Current Problems in Material and Device Technology. <i>Semiconductors and Semimetals</i> , <b>2017</b> , 96, 45-83	0.6	16
997	(Electronics and Photonics Division Award) Physics of Wide Band Gap Semiconductor Devices. <i>ECS Transactions</i> , <b>2017</b> , 75, 1-8	1	2
996	Optical polarization control of photo-pumped stimulated emissions at 238 nm from AlGaN multiple-quantum-well laser structures on AlN substrates. <i>Applied Physics Express</i> , <b>2017</b> , 10, 012702	2.4	16
995	Amplified-reflection plasmon instabilities in grating-gate plasmonic crystals. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	27
994	Homodyne phase sensitive terahertz spectrometer. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 121105	3.4	16
993	The electron transport that occurs within wurtzite zinc oxide and the application of stress. <i>MRS Advances</i> , <b>2017</b> , 2, 2627-2632	0.7	1

992	<b>2017,</b>			2
991	Effect of doping on the characteristics of infrared photodetectors based on van der Waals heterostructures with multiple graphene layers. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 054505	2.5		10
990	Terahertz Beam Testing of Millimeter Wave Monolithic Integrated Circuits. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5487-5491	4		13
989	Low-Frequency Electronic Noise in Quasi-1D TaSe van der Waals Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 377-383	3.3		51
988	(Invited) New Approaches for Shrinking the Performance Gap for GaN Power Devices. <i>ECS Transactions</i> , <b>2017</b> , 80, 147-159	1		1
987	Nonlinear response of infrared photodetectors based on van der Waals heterostructures with graphene layers. <i>Optics Express</i> , <b>2017</b> , 25, 5536-5549	3.3		16
986	Color Rendering Metrics: Status, Methods, and Future Development <b>2017</b> , 799-827			1
985	Electron Transport Within III-V Nitride Semiconductors. <i>Springer Handbooks</i> , <b>2017</b> , 1-1	1.3		6
984	TERAHERTZ AND INFRARED PHOTODETECTORS BASED ON VERTICAL GRAPHENE VAN DER WAALS HETEROSTRUCTURES: CONCEPTS, FEATURES OF OPERATION AND CHARACTERISTICS <b>2017</b> , 159-167			
983	Acoustoelectric effects in reflection of leaky-wave-radiated bulk acoustic waves from piezoelectric crystal-conductive liquid interface. <i>Ultrasonics</i> , <b>2016</b> , 64, 196-9	3.5		
982	New optical gating technique for detection of electric field waveforms with subpicosecond resolution. <i>Optics Express</i> , <b>2016</b> , 24, 12730-9	3.3		3
981	Breakdown current density in h-BN-capped quasi-1D TaSe <sub>3</sub> metallic nanowires: prospects of interconnect applications. <i>Nanoscale</i> , <b>2016</b> , 8, 15774-82	7.7		49
980	THz pulse detection by photoconductive plasmonic high electron mobility transistor with enhanced sensitivity <b>2016</b> ,			3
979	Silicon-on-Insulator Photoimpedance Sensor Using Capacitance Dispersion. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 3236-3240	2.9		1
978	Current-driven plasmonic boom instability in three-dimensional gated periodic ballistic nanostructures. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3		27
977	(Invited) Physics of GaN High Electron Mobility Transistors. <i>ECS Transactions</i> , <b>2016</b> , 75, 69-76	1		1
976	A sensitivity analysis on the electron transport within zinc oxide and its device implications. <i>MRS Advances</i> , <b>2016</b> , 1, 2777-2782	0.7		2
975	Plasmonic properties of asymmetric dual grating gate plasmonic crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 671-675	1.3		7

974	Recent developments in terahertz sensing technology <b>2016,</b>		1
973	Tunable, Room Temperature CMOS-Compatible THz Emitters Based on Nonlinear Mixing in Microdisk Resonators. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2016</b> , 37, 230-242	2.2	9
972	Color Rendering Metrics: Status, Methods, and Future Development <b>2016,</b> 1-29		1
971	Selective Gas Sensor Using Porous Silicon. <i>Sensor Letters</i> , <b>2016</b> , 14, 588-591	0.9	8
970	Transition from capacitive coupling to direct charge transfer in asymmetric terahertz plasmonic assemblies. <i>Optics Letters</i> , <b>2016</b> , 41, 5333-5336	3	68
969	Plasmonic Enhancement of Terahertz Devices Efficiency. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 1640019	0.5	
968	Temperature-dependent efficiency droop in AlGaIn epitaxial layers and quantum wells. <i>AIP Advances</i> , <b>2016</b> , 6, 045212	1.5	8
967	Resonant plasmonic terahertz detection in graphene split-gate field-effect transistors with lateral p-n junctions. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 315103	3	21
966	Two-dimensional plasmons in lateral carbon nanotube network structures and their effect on the terahertz radiation detection. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 044501	2.5	16
965	High-Speed Room Temperature Terahertz Detectors Based on InP Double Heterojunction Bipolar Transistors. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 1640011	0.5	8
964	Subpicosecond Nonlinear Plasmonic Response Probed by Femtosecond Optical Pulses. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 1640003	0.5	2
963	Plasma Instability of 2D Electrons in a Field Effect Transistor with a Partly Gated Channel. <i>International Journal of High Speed Electronics and Systems</i> , <b>2016</b> , 25, 1640015	0.5	5
962	Photomodification of carrier lifetime and diffusivity in AlGaIn epitaxial layers. <i>Current Applied Physics</i> , <b>2016</b> , 16, 633-637	2.6	1
961	Dependence of radiative and nonradiative recombination on carrier density and Al content in thick AlGaIn epilayers. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 145110	3	16
960	Graphene-based van der Waals heterostructures for emission and detection of terahertz radiation <b>2016,</b>		2
959	(Invited) The Compact Models and Parameter Extraction for Thin Film Transistors. <i>ECS Transactions</i> , <b>2016</b> , 75, 171-178	1	1
958	Terahertz compact SPICE model <b>2016,</b>		1
957	Graphene Active Plasmonics for New Types of Terahertz Lasers <b>2015,</b>		1



956	Selective chemical vapor sensing with few-layer MoS <sub>2</sub> thin-film transistors: Comparison with graphene devices. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 023115	3.4	97
955	Helicity-Driven Ratchet Effect Enhanced by Plasmons. <i>Physical Review Letters</i> , <b>2015</b> , 114, 246601	7.4	36
954	Ultimate response time of high electron mobility transistors. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 174502	2.5	18
953	Novel AlInN/GaN integrated circuits operating up to 500 °C. <i>Solid-State Electronics</i> , <b>2015</b> , 113, 22-27	1.7	14
952	Response of plasmonic terahertz detectors to amplitude modulated signals. <i>Solid-State Electronics</i> , <b>2015</b> , 111, 76-79	1.7	8
951	A 2015 perspective on the nature of the steady-state and transient electron transport within the wurtzite phases of gallium nitride, aluminum nitride, indium nitride, and zinc oxide: a critical and retrospective review. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 4475-4512	2.1	26
950	Acoustoelectric investigation of V <sub>2</sub> O <sub>5</sub> /H <sub>2</sub> O thin film transition from wet gel to xerogel. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 425, 24-27	3.9	1
949	Low-temperature redistribution of non-thermalized carriers and its effect on efficiency droop in AlGaIn epilayers. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 275105	3	9
948	Acousto-Optic Diffraction by Shear Horizontal Surface Acoustic Waves in 36° Rotated Y-Cut X-Propagation Lithium Tantalate. <i>Acta Physica Polonica A</i> , <b>2015</b> , 127, 52-54	0.6	1
947	Graphene vertical cascade interband terahertz and infrared photodetectors. <i>2D Materials</i> , <b>2015</b> , 2, 025002	9.2	19
946	Vertical electron transport in van der Waals heterostructures with graphene layers. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 154504	2.5	7
945	Recent advances in the research toward graphene-based terahertz lasers <b>2015</b> ,		1
944	1/f Noise Characteristics of MoS <sub>2</sub> Thin-Film Transistors: Comparison of Single and Multilayer Structures. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 517-519	4.4	35
943	High-efficiency UV LEDs on sapphire <b>2015</b> ,		2
942	Red-blue-green solid state light sources using a narrow line-width green phosphor. <i>Optics Express</i> , <b>2015</b> , 23, A309-15	3.3	5
941	Dynamics of nonequilibrium carrier decay in AlGaIn epitaxial layers with high aluminum content. <i>Optics Express</i> , <b>2015</b> , 23, 19646-55	3.3	5
940	Terahertz Wave Generation Using Graphene and Compound Semiconductor Nano-Heterostructures. <i>Nanostructure Science and Technology</i> , <b>2015</b> , 237-261	0.9	
939	Low-Temperature Bonded GaN-on-Diamond HEMTs With 11 W/mm Output Power at 10 GHz. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 3658-3664	2.9	57

938	Negative terahertz conductivity in disordered graphene bilayers with population inversion. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 113501	3.4	11
937	Selective Gas Sensing With $h$ -BN Capped MoS <sub>2</sub> Heterostructure Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 1202-1204	4.4	55
936	Terahertz Sensing Technology. <i>International Journal of High Speed Electronics and Systems</i> , <b>2015</b> , 24, 1550001	0.5	
935	High Current (1225A) Optical Triggering of 18-kV 4H-SiC Thyristor in Purely Inductive Load Circuit. <i>Materials Science Forum</i> , <b>2015</b> , 821-823, 893-896	0.4	2
934	Modelling effect of parasitics in plasmonic FETs. <i>Solid-State Electronics</i> , <b>2015</b> , 104, 75-78	1.7	22
933	Contactless Monitoring of Conductivity Changes in Vanadium Pentoxide Xerogel Layers Using Surface Acoustic Waves. <i>Physics Procedia</i> , <b>2015</b> , 70, 135-138		
932	Is zinc oxide a potential material for future high-power and high-frequency electron device applications?. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1805, 1		3
931	Terahertz Sensing Technology. <i>Selected Topics in Electornics and Systems</i> , <b>2015</b> , 1-29	0	
930	Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors. <i>Selected Topics in Electornics and Systems</i> , <b>2015</b> , 31-53	0	0
929	Resonant plasmonic terahertz detection in vertical graphene-base hot-electron transistors. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 204501	2.5	11
928	Spectral dependence of carrier lifetime in high aluminum content AlGa <sub>N</sub> epitaxial layers. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 085705	2.5	6
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611	Carrier lifetime and diffusion in GaN epilayers grown by MEMOCVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1923-1926		5
610	Deep-UV LED controlled AlGa <sub>N</sub> -based SAW oscillator. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1834-1838	1.6	24
609	Deep ultraviolet light-emitting diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1815-1818	1.6	60
608	Effects of growth temperature on exciton lifetime and structural properties of ZnO films on sapphire substrate. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 3699-3704	1.6	6
607	Spectra of standing and traveling plasma waves in two-dimensional electron channels. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 34, 417-420	3	1
606	Time- and frequency-domain measurements of carrier lifetimes in GaN epilayers. <i>Superlattices and Microstructures</i> , <b>2006</b> , 40, 274-278	2.8	1
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591	Physics of GaN-based heterostructure field effect transistors <b>2005</b> ,		1
590	Plasma wave resonant detection of femtosecond pulsed terahertz radiation by a nanometer field-effect transistor. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 022102	3.4	59
589	Current instability and plasma waves generation in ungated two-dimensional electron layers. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 111501	3.4	86
588	Steady-state and transient electron transport within bulk wurtzite indium nitride: An updated semiclassical three-valley Monte Carlo simulation analysis. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 222103	3.4	74
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585	Remote Laboratory for Electrical Experiments <b>2005</b> , 175-219		2
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574	Terahertz generation by plasma waves in nanometer gate high electron mobility transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 656-659	1.6	4
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570	Remote Laboratory: Bringing Students up Close to Semiconductor Devices <b>2005</b> , 221-234		
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549	Polarization-induced electron island in semiconductor grain placed into pyroelectric matrix. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2340-2342	3.4	10
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