

Maxim Ryzhii

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/277757/maxim-ryzhii-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

2,907
citations

29
h-index

47
g-index

221
ext. papers

3,463
ext. citations

2.4
avg, IF

5.14
L-index

#	Paper	IF	Citations
166	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , 2022 ,	6.3	3
165	Coulomb drag and plasmonic effects in graphene field-effect transistors enable resonant terahertz detection. <i>Applied Physics Letters</i> , 2022 , 120, 111102	3.4	0
164	Pacemaking function of two simplified cell models.. <i>PLoS ONE</i> , 2022 , 17, e0257935	3.7	0
163	Modulation characteristics of uncooled graphene photodetectors. <i>Journal of Applied Physics</i> , 2021 , 129, 214503	2.5	3
162	Heat capacity of nonequilibrium electron-hole plasma in graphene layers and graphene bilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	1
161	S-Shaped Current-Voltage Characteristics of n+-i-n-n+ Graphene Field-Effect Transistors due to the Coulomb Drag of Quasiequilibrium Electrons by Ballistic Electrons. <i>Physical Review Applied</i> , 2021 , 16,	4.3	7
160	Coulomb electron drag mechanism of terahertz plasma instability in n+-i-n-n+ graphene FETs with ballistic injection. <i>Applied Physics Letters</i> , 2021 , 119, 093501	3.4	6
159	Theoretical analysis of injection driven thermal light emitters based on graphene encapsulated by hexagonal boron nitride. <i>Optical Materials Express</i> , 2021 , 11, 468	2.6	4
158	Effect of Coulomb Carrier Drag and Terahertz Plasma Instability in p+ - p - i - . <i>Physical Review Applied</i> , 2021 , 16,	4.3	2
157	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> , 2020 , 35, 085023	1.8	2
156	Far-infrared photodetectors based on graphene/black-AsP heterostructures. <i>Optics Express</i> , 2020 , 28, 2480-2498	3.3	15
155	Far-infrared and terahertz emitting diodes based on graphene/black-P and graphene/MoS heterostructures. <i>Optics Express</i> , 2020 , 28, 24136-24151	3.3	4
154	Sub-terahertz FET detector with self-assembled Sn-nanowires. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 075102	3	4
153	Terahertz-wave generation using graphene: Toward new types of terahertz lasers. <i>Proceedings of the IEEE</i> , 2020 , 1-13	14.3	
152	Negative terahertz conductivity and amplification of surface plasmons in graphene/black phosphorus injection laser heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	12
151	Characteristics of vertically stacked graphene-layer infrared photodetectors. <i>Solid-State Electronics</i> , 2019 , 155, 123-128	1.7	
150	Negative photoconductivity and hot-carrier bolometric detection of terahertz radiation in graphene-phosphorene hybrid structures. <i>Journal of Applied Physics</i> , 2019 , 125, 151608	2.5	9

149	Concepts of infrared and terahertz photodetectors based on vertical graphene van der Waals and HgTe-CdHgTe heterostructures. <i>Opto-electronics Review</i> , 2019 , 27, 219-223	2.4	1
148	Optical pumping in graphene-based terahertz/far-infrared superluminescent and laser heterostructures with graded-gap black-PxAs _{1-x} absorbing-cooling layers. <i>Optical Engineering</i> , 2019 , 59, 1	1.1	5
147	Negative and positive terahertz and infrared photoconductivity in uncooled graphene. <i>Optical Materials Express</i> , 2019 , 9, 585	2.6	19
146	Optical pumping through a black-As absorbing-cooling layer in graphene-based heterostructure: thermo-diffusion model. <i>Optical Materials Express</i> , 2019 , 9, 4061	2.6	7
145	Graphene-based 2D-heterostructures for terahertz lasers and amplifiers 2019 ,		1
144	Optimization of Dual Pathway AV Nodal Conduction Model. <i>Journal of Physics: Conference Series</i> , 2019 , 1372, 012078	0.3	0
143	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> , 2019 , 25, 1-9	3.8	1
142	Terahertz photoconductive emitter with dielectric-embedded high-aspect-ratio plasmonic grating for operation with low-power optical pumps. <i>AIP Advances</i> , 2019 , 9, 015112	1.5	27
141	Lateral terahertz hot-electron bolometer based on an array of Sn nanothreads in GaAs. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 135101	3	13
140	Comparison of Intersubband Quantum-Well and Interband Graphene-Layer Infrared Photodetectors. <i>IEEE Journal of Quantum Electronics</i> , 2018 , 54, 1-8	2	8
139	Device model for pixelless infrared image up-converters based on polycrystalline graphene heterostructures. <i>Journal of Applied Physics</i> , 2018 , 123, 014503	2.5	2
138	Terahertz light-emitting graphene-channel transistor toward single-mode lasing. <i>Nanophotonics</i> , 2018 , 7, 741-752	6.3	38
137	Interband infrared photodetectors based on HgTe/CdHgTe quantum-well heterostructures. <i>Optical Materials Express</i> , 2018 , 8, 1349	2.6	10
136	Development of Simplified Model of Atrioventricular Node with Dual Pathway 2018 ,		1
135	Plasmonic terahertz antennas with high-aspect ratio metal gratings. <i>EPJ Web of Conferences</i> , 2018 , 195, 02009	0.3	1
134	Sn-nanothreads in GaAs matrix and their sub- and terahertz applications. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012166	0.3	2
133	Cardiac Conduction Model for Generating 12 Lead ECG Signals With Realistic Heart Rate Dynamics. <i>IEEE Transactions on Nanobioscience</i> , 2018 , 17, 525-532	3.4	16
132	Electrical modulation of terahertz radiation using graphene-phosphorene heterostructures. <i>Semiconductor Science and Technology</i> , 2018 , 33, 124010	1.8	14

131	Real-space-transfer mechanism of negative differential conductivity in gated graphene-phosphorene hybrid structures: Phenomenological heating model. <i>Journal of Applied Physics</i> , 2018 , 124, 114501	2.5	10
130	Quasiperiodicity route to chaos in cardiac conduction model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 42, 370-378	3.7	13
129	Infrared photodetectors based on graphene van der Waals heterostructures. <i>Infrared Physics and Technology</i> , 2017 , 84, 72-81	2.7	14
128	Dynamic Conductivity and Two-Dimensional Plasmons in Lateral CNT Networks. <i>International Journal of High Speed Electronics and Systems</i> , 2017 , 26, 1740004	0.5	
127	Dynamic Conductivity and Two-Dimensional Plasmons in Lateral CNT Networks. <i>Selected Topics in Electronics and Systems</i> , 2017 , 109-118	0	
126	Infrared detection and photon energy up-conversion in graphene layer infrared photodetectors integrated with LEDs based on van der Waals heterostructures: Concept, device model, and characteristics. <i>Infrared Physics and Technology</i> , 2017 , 85, 307-314	2.7	2
125	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> , 2017 , 122, 054505	2.5	10
124	Nonlinear response of infrared photodetectors based on van der Waals heterostructures with graphene layers. <i>Optics Express</i> , 2017 , 25, 5536-5549	3.3	16
123	Broadband Terahertz-Light Emission by Current-Injection Distributed-Feedback Dual-Gate Graphene-Channel Field-Effect Transistor 2017 ,		1
122	TERAHERTZ AND INFRARED PHOTODETECTORS BASED ON VERTICAL GRAPHENE VAN DER WAALS HETEROSTRUCTURES: CONCEPTS, FEATURES OF OPERATION AND CHARACTERISTICS 2017 , 159-167		
121	Plasmonic Enhancement of Terahertz Devices Efficiency. <i>International Journal of High Speed Electronics and Systems</i> , 2016 , 25, 1640019	0.5	
120	Resonant plasmonic terahertz detection in graphene split-gate field-effect transistors with lateral p _n junctions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 315103	3	21
119	Simulink heart model for simulation of the effect of external signals 2016 ,		1
118	Two-dimensional plasmons in lateral carbon nanotube network structures and their effect on the terahertz radiation detection. <i>Journal of Applied Physics</i> , 2016 , 120, 044501	2.5	16
117	Graphene-based van der Waals heterostructures for emission and detection of terahertz radiation 2016 ,		2
116	Graphene vertical cascade interband terahertz and infrared photodetectors. <i>2D Materials</i> , 2015 , 2, 025002	3.2	19
115	Vertical electron transport in van der Waals heterostructures with graphene layers. <i>Journal of Applied Physics</i> , 2015 , 117, 154504	2.5	7
114	Recent advances in the research toward graphene-based terahertz lasers 2015 ,		1

113	Terahertz Wave Generation Using Graphene and Compound Semiconductor Nano-Heterostructures. <i>Nanostructure Science and Technology</i> , 2015 , 237-261	0.9	
112	Electron Capture in van der Waals Graphene-Based Heterostructures with WS ₂ Barrier Layers. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 094703	1.5	16
111	Resonant plasmonic terahertz detection in vertical graphene-base hot-electron transistors. <i>Journal of Applied Physics</i> , 2015 , 118, 204501	2.5	11
110	Negative terahertz conductivity in remotely doped graphene bilayer heterostructures. <i>Journal of Applied Physics</i> , 2015 , 118, 183105	2.5	3
109	Formation of second-degree atrioventricular blocks in the cardiac heterogeneous oscillator model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4491-4	0.9	2
108	Voltage-tunable terahertz and infrared photodetectors based on double-graphene-layer structures. <i>Applied Physics Letters</i> , 2014 , 104, 163505	3.4	25
107	Terahertz emission and detection in double-graphene-layer structures 2014 ,		1
106	Challenges to create graphene terahertz lasers. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012007	0.3	1
105	Self-consistent surface charges and electric field in p-i-n tunneling transit-time diodes based on single- and multiple-layer graphene structures. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012011	0.3	
104	Plasma resonant terahertz photomixers based on double graphene layer structures. <i>Journal of Physics: Conference Series</i> , 2014 , 486, 012032	0.3	1
103	Effect of coupling on the pacemaker synchronization in coupled oscillator ECG model 2014 ,		1
102	Graphene vertical hot-electron terahertz detectors. <i>Journal of Applied Physics</i> , 2014 , 116, 114504	2.5	11
101	Double injection, resonant-tunneling recombination, and current-voltage characteristics in double-graphene-layer structures. <i>Journal of Applied Physics</i> , 2014 , 115, 024506	2.5	8
100	A heterogeneous coupled oscillator model for simulation of ECG signals. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 117, 40-9	6.9	25
99	Bioradiolocation: Methods and Applications. <i>Communications in Computer and Information Science</i> , 2014 , 10-28	0.3	1
98	Modeling of Heartbeat Dynamics with a System of Coupled Nonlinear Oscillators. <i>Communications in Computer and Information Science</i> , 2014 , 67-75	0.3	6
97	Double injection in graphene p-i-n structures. <i>Journal of Applied Physics</i> , 2013 , 113, 244505	2.5	27
96	Dynamic effects in double graphene-layer structures with inter-layer resonant-tunnelling negative conductivity. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 315107	3	36

95	Injection terahertz laser using the resonant inter-layer radiative transitions in double-graphene-layer structure. <i>Applied Physics Letters</i> , 2013 , 103, 163507	3.4	34
94	Effect of self-consistent electric field on characteristics of graphene p-i-n tunneling transit-time diodes. <i>Journal of Applied Physics</i> , 2013 , 113, 024503	2.5	8
93	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 63-71	3.4	69
92	Graphene terahertz uncooled bolometers. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 065102	3	30
91	Concept of infrared photodetector based on graphene-graphene nanoribbon structure. <i>Infrared Physics and Technology</i> , 2013 , 59, 137-141	2.7	6
90	Terahertz-Wave Generation Using Graphene: Toward New Types of Terahertz Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 8400209-8400209	3.8	51
89	Terahertz photomixing using plasma resonances in double-graphene layer structures. <i>Journal of Applied Physics</i> , 2013 , 113, 174506	2.5	36
88	Double-graphene-layer terahertz laser: concept, characteristics, and comparison. <i>Optics Express</i> , 2013 , 21, 31567-77	3.3	28
87	Graphene Terahertz Lasers: Injection versus Optical Pumping. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1505, 1		
86	Effect of plasma resonances on dynamic characteristics of double graphene-layer optical modulator. <i>Journal of Applied Physics</i> , 2012 , 112, 104507	2.5	44
85	Double graphene-layer plasma resonances terahertz detector. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 302001	3	66
84	Graphene-based devices in terahertz science and technology. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 303001	3	151
83	Graphene materials and devices in terahertz science and technology. <i>MRS Bulletin</i> , 2012 , 37, 1235-1243	3.2	26
82	Terahertz and infrared photodetectors based on multiple graphene layer and nanoribbon structures. <i>Opto-electronics Review</i> , 2012 , 20,	2.4	47
81	Graphene-based electro-optical modulator: Concept and analysis 2012 ,		1
80	Terahertz-wave generation using graphene. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1437, 36		
79	Analytical device model for graphene bilayer field-effect transistors using weak nonlocality approximation. <i>Journal of Applied Physics</i> , 2011 , 109, 064508	2.5	10
78	Toward the creation of terahertz graphene injection laser. <i>Journal of Applied Physics</i> , 2011 , 110, 094503	2.5	111

77	Terahertz and infrared detectors based on graphene structures. <i>Infrared Physics and Technology</i> , 2011 , 54, 302-305	2.7	30
76	Effect of Heating and Cooling of Photogenerated Electron-Hole Plasma in Optically Pumped Graphene on Population Inversion. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 094001	1.4	24
75	Tunneling recombination in optically pumped graphene with electron-hole puddles. <i>Applied Physics Letters</i> , 2011 , 99, 173504	3.4	8
74	Characteristics of p-i-n Terahertz and Infrared Photodiodes Based on Multiple Graphene Layer Structures. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 070117	1.4	7
73	Characteristics of p-i-n Terahertz and Infrared Photodiodes Based on Multiple Graphene Layer Structures. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 070117	1.4	9
72	Effect of Heating and Cooling of Photogenerated Electron-Hole Plasma in Optically Pumped Graphene on Population Inversion. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 094001	1.4	36
71	Electrically induced n-i-p junctions in multiple graphene layer structures. <i>Physical Review B</i> , 2010 , 82,	3.3	25
70	Terahertz and infrared photodetection using p-i-n multiple-graphene-layer structures. <i>Journal of Applied Physics</i> , 2010 , 107, 054512	2.5	62
69	Graphene-Based Terahertz Devices: Concepts and Characteristics 2010 , 293-306		2
68	Negative terahertz dynamic conductivity in electrically induced lateral p-i-n junction in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 719-721	3	7
67	Terahertz Laser with Optically Pumped Graphene Layers and Fabry-Pérot Resonator. <i>Applied Physics Express</i> , 2009 , 2, 092301	2.4	66
66	Graphene bilayer field-effect phototransistor for terahertz and infrared detection. <i>Physical Review B</i> , 2009 , 79,	3.3	71
65	Feasibility of terahertz lasing in optically pumped epitaxial multiple graphene layer structures. <i>Journal of Applied Physics</i> , 2009 , 106, 084507	2.5	109
64	Graphene Tunneling Transit-Time Terahertz Oscillator Based on Electrically Induced p-i-n Junction. <i>Applied Physics Express</i> , 2009 , 2, 034503	2.4	38
63	Graphene Nanoribbon Phototransistor: Proposal and Analysis. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 04C144	1.4	29
62	Device model for graphene bilayer field-effect transistor. <i>Journal of Applied Physics</i> , 2009 , 105, 104510	2.5	37
61	Current-voltage characteristics of a graphene-nanoribbon field-effect transistor. <i>Journal of Applied Physics</i> , 2008 , 103, 094510	2.5	38
60	Device Model for Graphene Nanoribbon Phototransistor. <i>Applied Physics Express</i> , 2008 , 1, 063002	2.4	63

59	Analysis of resonant detection of terahertz radiation in high-electron mobility transistor with a nanostring/carbon nanotube as the mechanically floating gate. <i>Journal of Applied Physics</i> , 2008 , 104, 024514	2.5	10
58	Population inversion of photoexcited electrons and holes in graphene and its negative terahertz conductivity. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 261-264		17
57	Tunneling Current-Voltage Characteristics of Graphene Field-Effect Transistor. <i>Applied Physics Express</i> , 2008 , 1, 013001	2.4	22
56	Mechanism of self-excitation of terahertz plasma oscillations in periodically double-gated electron channels. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 384207	1.8	23
55	High-frequency properties of a graphene nanoribbon field-effect transistor. <i>Journal of Applied Physics</i> , 2008 , 104, 114505	2.5	14
54	Combined resonance and resonant detection of modulated terahertz radiation in a micromachined high-electron mobility transistor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 277-281		4
53	Thermionic and tunneling transport mechanisms in graphene field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1527-1533	1.6	21
52	PLASMA WAVES IN TWO-DIMENSIONAL ELECTRON SYSTEMS AND THEIR APPLICATIONS. <i>Selected Topics in Electronics and Systems</i> , 2008 , 77-94	0	1
51	Negative dynamic conductivity of graphene with optical pumping. <i>Journal of Applied Physics</i> , 2007 , 101, 083114	2.5	256
50	Population inversion in electrically and optically pumped graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 40, 317-320	3	3
49	Injection and Population Inversion in Electrically Induced p-n Junction in Graphene with Split Gates. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L151-L153	1.4	80
48	PLASMA WAVES IN TWO-DIMENSIONAL ELECTRON SYSTEMS AND THEIR APPLICATIONS. <i>International Journal of High Speed Electronics and Systems</i> , 2007 , 17, 521-538	0.5	5
47	Resonant detection of modulated terahertz radiation in micromachined high-electron-mobility transistor. <i>Applied Physics Letters</i> , 2007 , 90, 203503	3.4	12
46	Resonant Terahertz Photomixing in Integrated High-Electron-Mobility Transistor and Quantum-Well Infrared Photodetector Device. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 3648-3651	1.4	5
45	Plasma effects in lateral Schottky junction tunneling transit-time terahertz oscillator. <i>Journal of Physics: Conference Series</i> , 2006 , 38, 228-233	0.3	10
44	Modeling of plasma oscillations and terahertz photomixing in HEMT-like heterostructure with lateral Schottky junction 2005 , 6039, 176		
43	Effect of near-ballistic photoelectron transport on resonant plasma-assisted photomixing in high-electron mobility transistors. <i>Semiconductor Science and Technology</i> , 2004 , 19, S74-S76	1.8	3
42	Characteristics of a terahertz photomixer based on a high-electron mobility transistor structure with optical input through the ungated regions. <i>Journal of Applied Physics</i> , 2004 , 95, 2084-2089	2.5	47

41	Comparison of dark current, responsivity and detectivity in different intersubband infrared photodetectors. <i>Semiconductor Science and Technology</i> , 2004 , 19, 8-16	1.8	73
40	Electric-field and space-charge distributions in InAs/GaAs quantum-dot infrared photodetectors: ensemble Monte Carlo particle modeling. <i>Microelectronics Journal</i> , 2003 , 34, 411-414	1.8	8
39	Quantum well and quantum dot infrared photodetectors: physics of operation and modeling 2003 ,		1
38	Self-consistent model for quantum well infrared photodetectors with thermionic injection under dark conditions. <i>Journal of Applied Physics</i> , 2002 , 92, 207-213	2.5	24
37	Analysis of dual-band quantum well photodetectors. <i>Journal of Applied Physics</i> , 2002 , 91, 5887-5891	2.5	3
36	Why QDIPs are still inferior to QWIPs: theoretical analysis 2001 ,		4
35	Periodic electric-field and charge domains in multiple quantum well infrared photodetectors. <i>Infrared Physics and Technology</i> , 2001 , 42, 249-257	2.7	
34	Comment on "Local responsivity in quantum well photodetectors"[J. Appl. Phys. 86, 7059 (1999)]. <i>Journal of Applied Physics</i> , 2001 , 89, 6563-6564	2.5	
33	Self-organization in multiple quantum well infrared photodetectors. <i>Semiconductor Science and Technology</i> , 2001 , 16, 202-208	1.8	7
32	Ensemble Monte Carlo Particle Modeling of InGaAs/InP Uni-Traveling-Carrier Photodiodes 2001 , 312-315		1
31	Comment on "Photoconductivity mechanism of quantum well infrared photodetectors under localized photoexcitation"[Appl. Phys. Lett. 73, 3432 (1998)]. <i>Applied Physics Letters</i> , 2000 , 76, 4010-4013	3.4	3
30	Monte Carlo particle modeling of electron transport and capture processes in AlGaAs/GaAs multiple quantum-well infrared photodetectors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 7, 120-123	3	4
29	Monte Carlo modeling of transient recharging processes in quantum-well infrared photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2000 , 47, 1935-1942	2.9	8
28	Periodic electric-field domains in optically excited multiple-quantum-well structures. <i>Physical Review B</i> , 2000 , 61, 2742-2748	3.3	23
27	Phenomenological theory of electric-field domains induced by infrared radiation in multiple quantum well structures. <i>Physical Review B</i> , 2000 , 62, 7268-7274	3.3	17
26	Nonlinear dynamics of recharging processes in multiple quantum well structures excited by infrared radiation. <i>Physical Review B</i> , 2000 , 62, 10292-10296	3.3	8
25	Theoretical Study of Recharging Instability in Quantum Well Infrared Photodetectors. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 6654-6658	1.4	7
24	Effect of Donor Space Charge on Electron Capture Processes in Quantum Well Infrared Photodetectors. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 6650-6653	1.4	15

23	Recharging Instability and Periodic Domain Structures in Multiple Quantum Well Infrared Photodetectors. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L1388-L1390	1.4	10
22	Monte Carlo Modeling of Electron Transport and Capture Processes in AlGaAs/GaAs Multiple Quantum Well Infrared Photodetectors. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 5922-5927	1.4	25
21	Impact of transit-time and capture effects on high-frequency performance of multiple quantum-well infrared photodetectors. <i>IEEE Transactions on Electron Devices</i> , 1998 , 45, 293-298	2.9	22
20	Capture and transit-time electron effects in high-frequency operation of multiple quantum well infrared photodetectors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998 , 2, 142-145	3	1
19	Monte Carlo modeling of electron velocity overshoot effect in quantum well infrared photodetectors. <i>Journal of Applied Physics</i> , 1998 , 84, 3403-3408	2.5	24
18	High-Frequency Response of Metal-Semiconductor-Metal Photodetectors Limited by Dynamic and Recombination Effects. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 6352-6357	1.4	5
17	Influence of Electron Velocity Overshoot Effect on High-Frequency Characteristics of Quantum Well Infrared Photodetectors. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 78-83	1.4	9
16	Terahertz response of metal-semiconductor-metal photodetectors. <i>Journal of Applied Physics</i> , 1998 , 84, 6419-6425	2.5	6
15	Monte Carlo analysis of ultrafast electron transport in quantum well infrared photodetectors. <i>Applied Physics Letters</i> , 1998 , 72, 842-844	3.4	30
14	Optically Controlled Plasma Resonances in Induced-Base Hot-Electron Transistors. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 5472-5474	1.4	6
13	Heterostructure laser-transistors controlled by resonant-tunnelling electron extraction. <i>Semiconductor Science and Technology</i> , 1997 , 12, 431-438	1.8	4
12	High-Frequency Response of Intersubband Infrared Photodetectors with a Multiple Quantum Well Structure. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 2596-2600	1.4	13
11	Analysis of integrated quantum-well infrared photodetector and light-emitting diode for implementing pixelless imaging devices. <i>IEEE Journal of Quantum Electronics</i> , 1997 , 33, 1527-1531	2	32
10	Optimisation of bistable quantum well IR phototransistors. <i>IEE Proceedings: Optoelectronics</i> , 1997 , 144, 283-286		1
9	Resonant-Tunneling Bipolar Transistors with a Quantum-Well Base. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 5280-5283	1.4	2
8	Multiple quantum-dot infrared phototransistors. <i>Physica B: Condensed Matter</i> , 1996 , 227, 17-20	2.8	12
7	Comparison Studies of Infrared Phototransistors with a Quantum-Well and a Quantum-Wire Base. <i>European Physical Journal Special Topics</i> , 1996 , 06, C3-157-C3-161		8
6	Fast Modulation of a Laser-Phototransistor by Long-Wavelength Infrared Radiation 1996 , 615-617		

5	Theoretical study of an infrared-to-visible wavelength quantum-well converter. <i>Semiconductor Science and Technology</i> , 1995 , 10, 1272-1276	1.8	3
4	Quantum Well Infrared Photodetector with Optical Output. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, L38-L40	1.4	17
3	Modeling of the excitation of terahertz plasma oscillations in a HEMT by ultrashort optical pulses		1
2	Ballistic Injection Terahertz Plasma Instability in Graphene n + - i n n + Field-Effect Transistors and Lateral Diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,	1.6	3
1	Coulomb Drag by Injected Ballistic Carriers in Graphene n + i n n + Structures: Doping and Temperature Effects. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100535	1.6	3