

Antoni Rogalski

List of Publications by Year in descending order

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288
papers

11,599
citations

61984

43
h-index

31849

101
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296
all docs

296
docs citations

296
times ranked

7859
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconductor ultraviolet detectors. <i>Journal of Applied Physics</i> , 1996, 79, 7433-7473.	2.5	1,340
2	Infrared detectors: status and trends. <i>Progress in Quantum Electronics</i> , 2003, 27, 59-210.	7.0	960
3	HgCdTe infrared detector material: history, status and outlook. <i>Reports on Progress in Physics</i> , 2005, 68, 2267-2336.	20.1	787
4	Third-generation infrared photodetector arrays. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	672
5	Infrared detectors: an overview. <i>Infrared Physics and Technology</i> , 2002, 43, 187-210.	2.9	606
6	Recent progress in infrared detector technologies. <i>Infrared Physics and Technology</i> , 2011, 54, 136-154.	2.9	419
7	History of infrared detectors. <i>Opto-electronics Review</i> , 2012, 20, .	2.4	309
8	Terahertz detectors and focal plane arrays. <i>Opto-electronics Review</i> , 2011, 19, .	2.4	260
9	THz detectors. <i>Progress in Quantum Electronics</i> , 2010, 34, 278-347.	7.0	258
10	Quantum well photoconductors in infrared detector technology. <i>Journal of Applied Physics</i> , 2003, 93, 4355-4391.	2.5	251
11	Quantum-dot infrared photodetectors: Status and outlook. <i>Progress in Quantum Electronics</i> , 2008, 32, 89-120.	7.0	227
12	Progress in focal plane array technologies. <i>Progress in Quantum Electronics</i> , 2012, 36, 342-473.	7.0	209
13	New concepts in infrared photodetector designs. <i>Applied Physics Reviews</i> , 2014, 1, 041102.	11.3	205
14	InAs/GaSb type-II superlattice infrared detectors: Future prospect. <i>Applied Physics Reviews</i> , 2017, 4, .	11.3	188
15	Challenges of small-pixel infrared detectors: a review. <i>Reports on Progress in Physics</i> , 2016, 79, 046501.	20.1	179
16	Intrinsic infrared detectors. <i>Progress in Quantum Electronics</i> , 1988, 12, 87-289.	7.0	158
17	InAs/GaSb superlattices as a promising material system for third generation infrared detectors. <i>Infrared Physics and Technology</i> , 2006, 48, 39-52.	2.9	124
18	Infrared Detectors for the Future. <i>Acta Physica Polonica A</i> , 2009, 116, 389-406.	0.5	111

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19	Uncooled long wavelength infrared photon detectors. <i>Infrared Physics and Technology</i> , 2004, 46, 115-131.	2.9	107
20	High-Operating-Temperature Infrared Photodetectors. , 2007, , .		105
21	Two-dimensional infrared and terahertz detectors: Outlook and status. <i>Applied Physics Reviews</i> , 2019, 6, .	11.3	94
22	Analysis of the ROA product in n+p Hg _{1-x} Cd _x Te photodiodes. <i>Infrared Physics</i> , 1988, 28, 139-153.	0.5	88
23	Sensing Infrared Photons at Room Temperature: From Bulk Materials to Atomic Layers. <i>Small</i> , 2019, 15, e1904396.	10.0	83
24	HOT infrared photodetectors. <i>Opto-electronics Review</i> , 2013, 21, .	2.4	81
25	Barrier infrared detectors. <i>Opto-electronics Review</i> , 2014, 22, .	2.4	81
26	Type-II superlattice photodetectors versus HgCdTe photodiodes. <i>Progress in Quantum Electronics</i> , 2019, 68, 100228.	7.0	81
27	Two-dimensional analysis of double-layer heterojunction HgCdTe photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1326-1332.	3.0	79
28	Photovoltaic effects in GaN structures with p-n junctions. <i>Applied Physics Letters</i> , 1995, 67, 2028-2030.	3.3	78
29	Kinetics of photoconductivity in n-type GaN photodetector. <i>Applied Physics Letters</i> , 1995, 67, 3792-3794.	3.3	77
30	Toward third generation HgCdTe infrared detectors. <i>Journal of Alloys and Compounds</i> , 2004, 371, 53-57.	5.5	76
31	Material considerations for third generation infrared photon detectors. <i>Infrared Physics and Technology</i> , 2007, 50, 240-252.	2.9	74
32	New material systems for third generation infrared photodetectors. <i>Opto-electronics Review</i> , 2008, 16, .	2.4	69
33	HgCdTe barrier infrared detectors. <i>Progress in Quantum Electronics</i> , 2016, 47, 1-18.	7.0	66
34	InAs _{1-x} Sb _x infrared detectors. <i>Progress in Quantum Electronics</i> , 1989, 13, 191-231.	7.0	63
35	Infrared Devices And Techniques (Revision). <i>Metrology and Measurement Systems</i> , 2014, 21, 565-618.	1.4	61
36	Hg(1-x)MnxTe as a new infrared detector material. <i>Infrared Physics</i> , 1991, 31, 117-166.	0.5	60

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37	Next decade in infrared detectors. , 2017, , .		54
38	Comparison of the performance of quantum well and conventional bulk infrared photodetectors. Infrared Physics and Technology, 1997, 38, 295-310.	2.9	53
39	Graphene-based materials in the infrared and terahertz detector families: a tutorial. Advances in Optics and Photonics, 2019, 11, 314.	25.5	53
40	Progress in MOCVD growth of HgCdTe heterostructures for uncooled infrared photodetectors. Infrared Physics and Technology, 2007, 49, 173-182.	2.9	50
41	Band-to-band recombination in InAs $_{1-x}$ Sb $_x$. Infrared Physics, 1985, 25, 551-560.	0.5	48
42	Trends in Performance Limits of the HOT Infrared Photodetectors. Applied Sciences (Switzerland), 2021, 11, 501.	2.5	48
43	Assessment of quantum dot infrared photodetectors for high temperature operation. Journal of Applied Physics, 2008, 104, 034314.	2.5	47
44	<title>Narrow-gap semiconductor photodiodes</title>. , 1998, , .		46
45	Assessment of HgCdTe photodiodes and quantum well infrared photoconductors for long wavelength focal plane arrays. Infrared Physics and Technology, 1999, 40, 279-294.	2.9	46
46	Effect of dislocations on performance of LWIR HgCdTe photodiodes. Journal of Electronic Materials, 2000, 29, 736-741.	2.2	46
47	InAsSb-Based Infrared Photodetectors: Thirty Years Later On. Sensors, 2020, 20, 7047.	3.8	46
48	Narrow-Gap Semiconductor Photodiodes. , 2000, , .		46
49	Competitive technologies of third generation infrared photon detectors. Opto-electronics Review, 2006, 14, .	2.4	45
50	Engineering the Bandgap of Unipolar HgCdTe-Based nBn Infrared Photodetectors. Journal of Electronic Materials, 2015, 44, 158-166.	2.2	42
51	New generation of infrared photodetectors. Sensors and Actuators A: Physical, 1998, 67, 146-152.	4.1	40
52	Heterostructure infrared photovoltaic detectors. Infrared Physics and Technology, 2000, 41, 213-238.	2.9	38
53	Enhanced numerical analysis of current-voltage characteristics of long wavelength infrared n-on-p HgCdTe photodiodes. Journal of Applied Physics, 2010, 108, .	2.5	36
54	Antimonide-based Infrared Detectors: A New Perspective. , 2018, , .		36

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55	New trends in semiconductor infrared detectors. <i>Optical Engineering</i> , 1994, 33, 1395.	1.0	35
56	Modelling of MWIR HgCdTe complementary barrier HOT detector. <i>Solid-State Electronics</i> , 2013, 80, 96-104.	1.4	35
57	Semiconductor ultraviolet detectors. , 1996, , .		33
58	Simplified model of dislocations as a SRH recombination channel in the HgCdTe heterostructures. <i>Infrared Physics and Technology</i> , 2012, 55, 98-107.	2.9	32
59	Hg _{1-x} Zn _x Te as a potential infrared detector material. <i>Progress in Quantum Electronics</i> , 1989, 13, 299-353.	7.0	30
60	Intrinsic carrier concentration and effective masses in InAs _{1-x} Sb _x . <i>Infrared Physics</i> , 1989, 29, 35-42.	0.5	30
61	Performance of mercury cadmium telluride photoconductive detectors. <i>Infrared Physics</i> , 1991, 31, 543-554.	0.5	30
62	Long-wavelength HgCdTe photodiodes: n ⁺ and p ⁺ structures. <i>Journal of Applied Physics</i> , 1995, 77, 3505-3512.	2.5	30
63	Performance limitation of short wavelength infrared InGaAs and HgCdTe photodiodes. <i>Journal of Electronic Materials</i> , 1999, 28, 630-636.	2.2	30
64	Comment on "Temperature limits on infrared detectivities of InAs/In _x Ga _{1-x} Sb superlattices and bulk Hg _{1-x} Cd _x Te" [J. Appl. Phys. 74, 4774 (1993)]. <i>Journal of Applied Physics</i> , 1996, 80, 2542-2544.	2.5	29
65	Computer modeling of dual-band HgCdTe photovoltaic detectors. <i>Journal of Applied Physics</i> , 2001, 90, 1286-1291.	2.5	29
66	Performance modeling of MWIR InAs/GaSb/Ba _{0.2} Ga _{0.8} Sb type-II superlattice nBn detector. <i>Semiconductor Science and Technology</i> , 2012, 27, 055002.	2.0	28
67	Semiconductor detectors and focal plane arrays for far-infrared imaging. <i>Opto-electronics Review</i> , 2013, 21, .	2.4	28
68	Mid-wavelength infrared type-II InAs/GaSb superlattice interband cascade photodetectors. <i>Optical Engineering</i> , 2014, 53, 043107.	1.0	28
69	Narrow-Gap Semiconductor Materials. , 2000, , .		28
70	MOCVD grown HgCdTe device structure for ambient temperature LWIR detectors. <i>Semiconductor Science and Technology</i> , 2013, 28, 105017.	2.0	27
71	MWIR barrier detectors versus HgCdTe photodiodes. <i>Infrared Physics and Technology</i> , 2015, 70, 125-128.	2.9	27
72	Third-generation infrared photon detectors. <i>Optical Engineering</i> , 2003, 42, 3498.	1.0	26

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73	The bulk generation-recombination processes and the carrier lifetime in mid-wave infrared and long-wave infrared liquid nitrogen cooled HgCdTe alloys. Journal of Applied Physics, 2012, 112, .	2.5	26
74	InAs/GaSb type-II superlattice infrared detectors: three decades of development. Proceedings of SPIE, 2017, , .	0.8	26
75	Near room-temperature InAsSb photodiodes: Theoretical predictions and experimental data. Solid-State Electronics, 1996, 39, 1593-1600.	1.4	25
76	Insight into performance of quantum dot infrared photodetectors. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2009, 57, .	0.8	25
77	Numerical Estimations of Carrier Generation–Recombination Processes and the Photon Recycling Effect in HgCdTe Heterostructure Photodiodes. Journal of Electronic Materials, 2012, 41, 2766-2774.	2.2	25
78	Intrinsic carrier concentrations and effective masses in the potential infrared detector material, Hg _{1-x} Zn _x Te. Infrared Physics, 1988, 28, 101-107.	0.5	24
79	MOCVD Grown HgCdTe Barrier Structures for HOT Conditions (July 2014). IEEE Transactions on Electron Devices, 2014, 61, 3803-3807.	3.0	23
80	Infrared devices and techniques. , 2017, , 633-686.		23
81	New insights into the ultimate performance of HgCdTe photodiodes. Sensors and Actuators A: Physical, 2022, 339, 113511.	4.1	23
82	Demonstration of HOT LWIR T2SLs InAs/InAsSb photodetectors grown on GaAs substrate. Infrared Physics and Technology, 2018, 95, 222-226.	2.9	22
83	Effect of structure on the quantum efficiency and ROA product of lead-tin chalcogenide photodiodes. Infrared Physics, 1982, 22, 199-208.	0.5	21
84	Theoretical Modeling of HOT HgCdTe Barrier Detectors for the Mid-Wave Infrared Range. Journal of Electronic Materials, 2013, 42, 3309-3319.	2.2	21
85	Performance prediction of p-i-n HgCdTe long-wavelength infrared HOT photodiodes. Applied Optics, 2018, 57, D11.	1.8	21
86	New trends in infrared detector technology. Infrared Physics and Technology, 1994, 35, 1-21.	2.9	19
87	MOCVD HgCdTe heterostructures for uncooled infrared photodetectors. , 2005, , .		19
88	Interfacial Misfit Array Technique for GaSb Growth on GaAs (001) Substrate by Molecular Beam Epitaxy. Journal of Electronic Materials, 2018, 47, 299-304.	2.2	19
89	Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. IEEE Transactions on Electron Devices, 2020, 67, 542-546.	3.0	19
90	Performance of p+i-n HgCdTe photodiodes. Infrared Physics, 1992, 33, 463-473.	0.5	18

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91	Semiconductor superlattices and quantum wells for infrared optoelectronics. Progress in Quantum Electronics, 1993, 17, 93-164.	7.0	18
92	Numerical estimations of carrier generation-recombination processes and photon recycling effect in 3- μm InAs/GaSb type-II superlattices. Optical Engineering, 2011, 50, 061003.	1.0	18
93	Enhanced Performance of HgCdTe Long-Wavelength Infrared Photodetectors With nBn Design. IEEE Transactions on Electron Devices, 2020, 67, 2001-2007.	3.0	18
94	Comparison of performance of quantum dot and other types of infrared photodetectors. Proceedings of SPIE, 2008, , .	0.8	17
95	Recent progress in third generation infrared detectors. Journal of Modern Optics, 2010, 57, 1716-1730.	1.3	17
96	Improvement in performance of high-operating temperature HgCdTe photodiodes. Infrared Physics and Technology, 2011, 54, 310-315.	2.9	17
97	Performance limits of the mid-wave InAsSb/AlAsSb nBn HOT infrared detector. Optical and Quantum Electronics, 2014, 46, 581-591.	3.3	17
98	Photon recycling effect in small pixel p-i-n HgCdTe long wavelength infrared photodiodes. Infrared Physics and Technology, 2019, 97, 38-42.	2.9	17
99	Engineering steps for optimizing high temperature LWIR HgCdTe photodiodes. Infrared Physics and Technology, 2017, 81, 276-281.	2.9	16
100	New ternary alloy systems for infrared detectors. , 1993, , .		15
101	Modeling of midwavelength infrared InAs/GaSb type II superlattice detectors. Optical Engineering, 2013, 52, 061307.	1.0	15
102	Performance comparison of barrier detectors and HgCdTe photodiodes. Optical Engineering, 2014, 53, 106105.	1.0	15
103	Investigation of a near mid-gap trap energy level in mid-wavelength infrared InAs/GaSb type-II superlattices. Semiconductor Science and Technology, 2015, 30, 115004.	2.0	15
104	Molecular beam epitaxial growth and characterization of InAs layers on GaAs (001) substrate. Optical and Quantum Electronics, 2016, 48, 1.	3.3	15
105	Low-temperature growth of GaSb epilayers on GaAs (001) by molecular beam epitaxy. Opto-electronics Review, 2016, 24, .	2.4	15
106	Optimization of the interfacial misfit array growth mode of GaSb epilayers on GaAs substrate. Journal of Crystal Growth, 2018, 483, 26-30.	1.5	15
107	Investigation of surface leakage current in MWIR HgCdTe and InAsSb barrier detectors. Semiconductor Science and Technology, 2018, 33, 125010.	2.0	15
108	Bandgap energy determination of InAsSb epilayers grown by molecular beam epitaxy on GaAs substrates. Progress in Natural Science: Materials International, 2019, 29, 472-476.	4.4	15

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109	Theoretical modeling of InAsSb/AlAsSb barrier detectors for higher-operation-temperature conditions. <i>Optical Engineering</i> , 2014, 53, 017106.	1.0	14
110	Mid-Wavelength Infrared nBn for HOT Detectors. <i>Journal of Electronic Materials</i> , 2014, 43, 2963-2969.	2.2	14
111	Demonstration of the Very Long Wavelength Infrared Type-II Superlattice InAs/InAsSb GaAs Immersed Photodetector Operating at Thermoelectric Cooling. <i>IEEE Electron Device Letters</i> , 2019, 40, 1396-1398.	3.9	14
112	Interband Quantum Cascade Infrared Photodetectors: Current Status and Future Trends. <i>Physical Review Applied</i> , 2022, 17, .	3.8	14
113	<title>Infrared thermal detectors versus photon detectors: I. Pixel performance</title>. , 1997, , .		13
114	HgCdTe buried multi-junction photodiodes fabricated by the liquid phase epitaxy. <i>Infrared Physics and Technology</i> , 2002, 43, 157-163.	2.9	13
115	Modeling of HgCdTe LWIR detector for high operation temperature conditions. <i>Metrology and Measurement Systems</i> , 2013, 20, 159-170.	1.4	13
116	Mid-wave T2SLs InAs/GaSb single pixel PIN detector with GaAs immersion lens for HOT condition. <i>Solid-State Electronics</i> , 2016, 119, 1-4.	1.4	13
117	Mercury Cadmium Telluride Photodiodes at the Beginning of the Next Millennium (Review Paper). <i>Defence Science Journal</i> , 2001, 51, 5-34.	0.8	13
118	Guest Editorial: Special Section on Semiconductor Infrared Detectors. <i>Optical Engineering</i> , 1994, 33, 1392.	1.0	12
119	Generation-Recombination Effect in High-Temperature HgCdTe Heterostructure Nonequilibrium Photodiodes. <i>Journal of Electronic Materials</i> , 2009, 38, 1666-1676.	2.2	12
120	1/\$f\$ Noise in Mid-Wavelength Infrared Detectors With InAs/GaSb Superlattice Absorber. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2022-2026.	3.0	12
121	Status of HgCdTe Barrier Infrared Detectors Grown by MOCVD in Military University of Technology. <i>Journal of Electronic Materials</i> , 2016, 45, 4563-4573.	2.2	12
122	HgCdTe photodetectors. , 2020, , 235-335.		12
123	Detectivities of WS ₂ /HfS ₂ heterojunctions. <i>Nature Nanotechnology</i> , 2022, 17, 217-219.	31.5	12
124	Temperature dependence of the RoA product for lead chalcogenide photovoltaic detectors. <i>Infrared Physics</i> , 1981, 21, 191-199.	0.5	11
125	New material systems for third generation infrared detectors. , 2009, , .		11
126	Control of acceptor doping in MOCVD HgCdTe epilayers. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	11

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127	High frequency response of near-room temperature LWIR HgCdTe heterostructure photodiodes. Opto-electronics Review, 2010, 18, .	2.4	11
128	Dark current modeling of MWIR type-II superlattice detectors. , 2012, , .		11
129	Theoretical modeling of long wavelength n ⁺ - δ -HgCdTe photodiodes. Journal of Applied Physics, 1996, 80, 2483-2489.	2.5	10
130	Comparison of photon and thermal detector performance. , 2002, , 5-81.		10
131	Competitive technologies for third generation infrared photon detectors. , 2006, , .		10
132	Modeling of InAsSb/AlAsSb nBn HOT detector's performance limit. Proceedings of SPIE, 2013, , .	0.8	10
133	Electrical Properties of Midwave and Longwave InAs/GaSb Superlattices Grown on GaAs Substrates by Molecular Beam Epitaxy. Nanoscale Research Letters, 2018, 13, 196.	5.7	10
134	Modeling of HOT (111) HgCdTe MWIR detector for fast response operation. Optical and Quantum Electronics, 2014, 46, 1303-1312.	3.3	9
135	Recent progress in MOCVD growth for thermoelectrically cooled HgCdTe medium wavelength infrared photodetectors. Solid-State Electronics, 2016, 118, 61-65.	1.4	9
136	Investigation on the InAs _{1-x} Sb _x epilayers growth on GaAs (001) substrate by molecular beam epitaxy. Journal of Semiconductors, 2018, 39, 033003.	3.7	9
137	Detectivity limits for PbTe photovoltaic detectors. Infrared Physics, 1980, 20, 223-229.	0.5	8
138	Influence of dislocations on the performance of Hg _{1-x} CdxTe graded gap photoresistors. Infrared Physics, 1988, 28, 279-286.	0.5	8
139	A modified hot wall epitaxy technique for the growth of CdTe and Hg _{1-x} CdxTe epitaxial layers. Thin Solid Films, 1990, 191, 239-245.	1.8	8
140	Dual-band infrared detectors. , 2000, 3948, 17.		8
141	Infrared detectors at the beginning of the next millennium. , 2001, , .		8
142	Analysis of the response time in high-temperature LWIR HgCdTe photodiodes operating in non-equilibrium mode. Infrared Physics and Technology, 2013, 61, 162-166.	2.9	8
143	Locally Strain-Induced Heavy-Hole Band Splitting Observed in Mobility Spectrum of p-Type InAs Grown on GaAs. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900604.	2.4	8
144	The Intrinsic Carrier Concentration in Pb _{1-x} SnxTe, Pb _{1-x} SnxSe, and PbS _{1-x} Sex. Physica Status Solidi A, 1989, 111, 559-565.	1.7	7

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145	The performance of $\text{Hg}_{1-x}\text{Zn}_x\text{Te}$ photodiodes. Applied Physics A: Solids and Surfaces, 1990, 50, 379-384.	1.4	7
146	Performance of p+n HgCdTe photodiodes. Semiconductor Science and Technology, 1993, 8, S289-S292.	2.0	7
147	Computer simulation of HgCdTe photovoltaic devices based on complex heterostructures. , 1999, 3629, 74.		7
148	Insight on quantum dot infrared photodetectors. Journal of Physics: Conference Series, 2009, 146, 012030.	0.4	7
149	Surface smoothness improvement of HgCdTe layers grown by MOCVD. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2009, 57, .	0.8	7
150	Near-room temperature MWIR HgCdTe photodiodes limited by vacancies and dislocations related to Shockley-Read-Hall centres. Solid-State Electronics, 2011, 63, 8-8.	1.4	7
151	Doing Hirsch proud; shaping H-index in engineering sciences. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 5-21.	0.8	7
152	Fundamental limits of MWIR HgCdTe barrier detectors operating under non-equilibrium mode. Solid-State Electronics, 2014, 100, 20-26.	1.4	7
153	MOCVD grown HgCdTe barrier detectors for MWIR high-operating temperature operation. Optical Engineering, 2015, 54, 105105.	1.0	7
154	Higher Operating Temperature IR Detectors of the MOCVD Grown HgCdTe Heterostructures. Journal of Electronic Materials, 2020, 49, 6908-6917.	2.2	7
155	Studies of Dark Current Reduction in InAsSb Mid-Wave Infrared HOT Detectors through Two Step Passivation Technique. Acta Physica Polonica A, 2017, 132, 325-328.	0.5	7
156	Photovoltaic detectors $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ ($0 \leq x \leq 0.25$). Minority carrier lifetimes. Resistance-area product. Infrared Physics, 1981, 21, 1-8.	0.5	6
157	Photovoltaic detectors $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ ($0 \leq x \leq 0.12$). Minority carrier lifetimes. Resistance-area product. Infrared Physics, 1981, 21, 251-259.	0.5	6
158	Calculation of the intrinsic carrier concentration in InAsSb . Physica Status Solidi (B): Basic Research, 1986, 135, K85.	1.5	6
159	Calculation of the carrier lifetime in $\text{Hg}_{1-x}\text{Zn}_x\text{Te}$. Infrared Physics, 1988, 28, 311-319.	0.5	6
160	The performance of $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ photodiodes. Infrared Physics, 1989, 29, 887-893.	0.5	6
161	Comparison of performance limits of infrared detector materials. , 2002, 4650, 117.		6
162	Numerical modeling of fluctuation phenomena in semiconductors and detailed noise study of mid-wave infrared HgCdTe -heterostructure devices. Journal of Electronic Materials, 2002, 31, 677-682.	2.2	6

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163	Improvements in MOCVD growth of Hg _{1-x} Cd _x Te heterostructures for uncooled infrared photodetectors. , 2005, , .		6
164	Electrical and optical performance of midwave infrared InAsSb heterostructure detectors. Optical Engineering, 2018, 57, 1.	1.0	6
165	Influence of air on the electrical properties of Pb _{1-x} Sn _x Te layers on a mica substrate. Thin Solid Films, 1980, 74, 59-68.	1.8	5
166	<title>AlGaIn ultraviolet detectors</title>. , 1997, , .		5
167	Uncooled long-wavelength infrared photon detectors. , 2004, , .		5
168	Enhanced numerical analysis of three-color HgCdTe detectors. , 2007, , .		5
169	Numerical analysis of three-colour HgCdTe detectors. Opto-electronics Review, 2007, 15, .	2.4	5
170	Investigation of hillocks formation on (1 0 0) HgCdTe layers grown by MOCVD on GaAs epi-ready substrates. Infrared Physics and Technology, 2017, 84, 87-93.	2.9	5
171	Response time improvement of LWIR HOT MCT detectors. Proceedings of SPIE, 2017, , .	0.8	5
172	Hg-based alternatives to MCT. , 2001, , 377-400.		5
173	Heterostructure infrared photodiodes. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2000, 3, 111-120.	1.0	5
174	Figure of merit for infrared detector materials. Infrared Physics and Technology, 2022, 122, 104063.	2.9	5
175	PbS _{1-x} Se _x , (O ^{1/2} x ^{1/2}) photovoltaic detectors: carrier lifetimes and resistance-area product. Infrared Physics, 1983, 23, 23-32.	0.5	4
176	Band-to-band recombination in Ga _x In _{1-x} Sb. Infrared Physics, 1987, 27, 353-360.	0.5	4
177	Auger-limited carrier lifetime in HgZnTe ambient temperature 10.6 ^{1/4} μm photoresistors. Infrared Physics, 1989, 29, 149-154.	0.5	4
178	<title>Two-dimensional analysis of double-layer heterojunction HgCdTe photodiodes</title>. , 2001, 4288, 335.		4
179	QUANTUM WELL INFRARED PHOTOCONDUCTORS IN INFRARED DETECTORS TECHNOLOGY. International Journal of High Speed Electronics and Systems, 2002, 12, 593-658.	0.7	4
180	Surface leakage current in HgCdTe photodiodes. , 2002, , .		4

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181	Minority carrier lifetime and noise in abrupt molecular-beam epitaxy-grown HgCdTe heterostructures. <i>Journal of Electronic Materials</i> , 2003, 32, 639-645.	2.2	4
182	Two-colour HgCdTe infrared detectors operating above 200 K. <i>Opto-electronics Review</i> , 2008, 16, .	2.4	4
183	Novel uncooled infrared detectors. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	4
184	Performance limits of room-temperature InAsSb photodiodes. , 2010, , .		4
185	MWIR type-II InAs/GaSb superlattice interband cascade photodetectors. , 2013, , .		4
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187	Theoretical modelling of MWIR thermoelectrically cooled nBn HgCdTe detector. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2013, 61, 211-220.	0.8	4
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