Manijeh Razeghi

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.

 323
 12,755
 61
 94

 papers
 citations
 h-index
 g-index

 355
 14,297
 3.5
 6.48

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
323	High Power Mid-Infrared Quantum Cascade Lasers Grown on GaAs. <i>Photonics</i> , 2022 , 9, 231	2.2	2
322	Low Dark Current Deep UV AlGaN Photodetectors on AlN Substrate. <i>IEEE Journal of Quantum Electronics</i> , 2022 , 58, 1-5	2	0
321	Highly Conductive Co-Doped Ga2O3:Si-In Grown by MOCVD. <i>Coatings</i> , 2021 , 11, 287	2.9	4
320	Performance analysis of infrared heterojunction phototransistors based on Type-II superlattices. <i>Infrared Physics and Technology</i> , 2021 , 113, 103641	2.7	2
319	Mid-wavelength infrared avalanche photodetector with AlAsSb/GaSb superlattice. <i>Scientific Reports</i> , 2021 , 11, 7104	4.9	5
318	Low Noise Short Wavelength Infrared Avalanche Photodetector Using SB-Based Strained Layer Superlattice. <i>Photonics</i> , 2021 , 8, 148	2.2	1
317	Geiger-Mode Operation of AlGaN Avalanche Photodiodes at 255 nm. <i>IEEE Journal of Quantum Electronics</i> , 2021 , 57, 1-6	2	4
316	Harmonic injection locking of high-power mid-infrared quantum cascade lasers. <i>Photonics Research</i> , 2021 , 9, 1078	6	1
315	Resonant cavity enhanced heterojunction phototransistors based on type-II superlattices. <i>Infrared Physics and Technology</i> , 2021 , 113, 103552	2.7	3
314	Multi-band SWIR-MWIR-LWIR Type-II superlattice based infrared photodetector. <i>Results in Optics</i> , 2021 , 2, 100054	1	5
313	Study of Phase Transition in MOCVD Grown Ga2O3 from Ito IPhase by Ex Situ and In Situ Annealing. <i>Photonics</i> , 2021 , 8, 17	2.2	7
312	High Power, Widely Tunable, and Beam Steerable Mid-infrared Quantum Cascade Lasers. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2021 , 21-34	0.2	
311	High-brightness LWIR quantum cascade lasers. <i>Optics Letters</i> , 2021 , 46, 5193-5196	3	2
310	Band-structure-engineered high-gain LWIR photodetector based on a type-II superlattice. <i>Light: Science and Applications</i> , 2021 , 10, 17	16.7	9
309	Microstrip Array Ring FETs with 2D p-Ga2O3 Channels Grown by MOCVD. <i>Photonics</i> , 2021 , 8, 578	2.2	O
308	Avalanche Photodetector Based on InAs/InSb Superlattice. <i>Quantum Reports</i> , 2020 , 2, 591-599	2.1	6
307	Type-II superlattice-based heterojunction phototransistors for high speed applications. <i>Infrared Physics and Technology</i> , 2020 , 108, 103350	2.7	7

(2019-2020)

306	Planar nBn type-II superlattice mid-wavelength infrared photodetectors using zinc ion-implantation. <i>Applied Physics Letters</i> , 2020 , 116, 221103	3.4	8	
305	Mid-wavelength infrared high operating temperature pBn photodetectors based on type-II InAs/InAsSb superlattice. <i>AIP Advances</i> , 2020 , 10, 025018	1.5	23	
304	High power continuous wave operation of single mode quantum cascade lasers up to 5 W spanning \$\text{B}3.8-8.3 \$\text{\textsim}\$ m. <i>Optics Express</i> , 2020 , 28, 15181-15188	3.3	2	
303	Room temperature quantum cascade lasers with 22% wall plug efficiency in continuous-wave operation. <i>Optics Express</i> , 2020 , 28, 17532-17538	3.3	9	
302	Continuous wave quantum cascade lasers with 5.6 W output power at room temperature and 41% wall-plug efficiency in cryogenic operation. <i>AIP Advances</i> , 2020 , 10, 055120	1.5	4	
301	InAs/GaSb type II superlattices: A developing material system for third generation of IR imaging 2020 , 379-413		5	
300	Demonstration of Planar Type-II Superlattice-Based Photodetectors Using Silicon Ion-Implantation. <i>Photonics</i> , 2020 , 7, 68	2.2	2	
299	Room temperature quantum cascade laser with ~31% wall-plug efficiency. <i>AIP Advances</i> , 2020 , 10, 0750) 1:2 ₅	6	
298	High performance InAs/InAsSb Type-II superlattice mid-wavelength infrared photodetectors with double barrier. <i>Infrared Physics and Technology</i> , 2020 , 109, 103439	2.7	7	
297	High performance Zn-diffused planar mid-wavelength infrared type-II InAs/InAs1\(\text{IS}\) Superlattice photodetector by MOCVD. <i>Applied Physics Letters</i> , 2020 , 116, 161108	3.4	8	
296	Surface Emitting, Tunable, Mid-Infrared Laser with High Output Power and Stable Output Beam. <i>Scientific Reports</i> , 2019 , 9, 549	4.9	5	
295	Extended short wavelength infrared heterojunction phototransistors based on type II superlattices. <i>Applied Physics Letters</i> , 2019 , 114, 191109	3.4	12	
294	Ga2O3 metal-oxide-semiconductor field effect transistors on sapphire substrate by MOCVD. Semiconductor Science and Technology, 2019 , 34, 08LT01	1.8	12	
293	Room temperature terahertz semiconductor frequency comb. <i>Nature Communications</i> , 2019 , 10, 2403	17.4	28	
292	AlGaN/AlN MOVPE heteroepitaxy: pulsed co-doping SiH4 and TMIn. <i>Semiconductor Science and Technology</i> , 2019 , 34, 075028	1.8	5	
291	Investigation of surface leakage reduction for small pitch shortwave infrared photodetectors. <i>Semiconductor Science and Technology</i> , 2019 , 34, 06LT01	1.8	2	
290	Type-II superlattices base visible/extended short-wavelength infrared photodetectors with a bandstructure-engineered photo-generated carrier extractor. <i>Scientific Reports</i> , 2019 , 9, 5003	4.9	16	
289	Demonstration of mid-wavelength infrared nBn photodetectors based on type-II InAs/InAs1-xSbx superlattice grown by metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2019 , 115, 0611	1 0 ³ 2 ⁴	10	

288	MOCVD grown EGa2O3 metal-oxide-semiconductor field effect transistors on sapphire. <i>Applied Physics Express</i> , 2019 , 12, 095503	2.4	9
287	High speed antimony-based superlattice photodetectors transferred on sapphire. <i>Applied Physics Express</i> , 2019 , 12, 116502	2.4	5
286	Antimonite-based gap-engineered type-II superlattice materials grown by MBE and MOCVD for the third generation of infrared imagers 2019 ,		4
285	High-power, continuous-wave, phase-locked quantum cascade laser arrays emitting at 8 Jm. <i>Optics Express</i> , 2019 , 27, 15776-15785	3.3	16
284	Fabrication of 12 Im pixel-pitch 1280 Il 024 extended short wavelength infrared focal plane array using heterojunction type-II superlattice-based photodetectors. <i>Semiconductor Science and Technology</i> , 2019 , 34, 03LT01	1.8	7
283	Suppressing Spectral Crosstalk in Dual-Band Long- Wavelength Infrared Photodetectors With Monolithically Integrated Air-Gapped Distributed Bragg Reflectors. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-6	2	8
282	High quantum efficiency mid-wavelength infrared type-II InAs/InAs1\(\mathbb{R}\)5bx superlattice photodiodes grown by metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2019 , 114, 011	184	17
281	Strain-Induced Metastable Phase Stabilization in GaO Thin Films. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 5536-5543	9.5	25
2 80	High brightness ultraviolet light-emitting diodes grown on patterned silicon substrate. <i>Materials Science in Semiconductor Processing</i> , 2019 , 90, 87-91	4.3	9
279	Thin-Film Antimonide-Based Photodetectors Integrated on Si. <i>IEEE Journal of Quantum Electronics</i> , 2018 , 54, 1-7	2	8
278	Shortwave quantum cascade laser frequency comb for multi-heterodyne spectroscopy. <i>Applied Physics Letters</i> , 2018 , 112, 141104	3.4	20
277	Sandwich method to grow high quality AlN by MOCVD. Journal Physics D: Applied Physics, 2018, 51, 0857	194	19
276	Phase-locked, high power, mid-infrared quantum cascade laser arrays. <i>Applied Physics Letters</i> , 2018 , 112, 181106	3.4	10
275	Room temperature operation of InxGa1\(\mathbb{R}\)Sb/InAs type-II quantum well infrared photodetectors grown by MOCVD. <i>Applied Physics Letters</i> , 2018 , 112, 111103	3.4	18
274	nBn extended short-wavelength infrared focal plane array. <i>Optics Letters</i> , 2018 , 43, 591-594	3	26
273	Type-II InAs/GaSb/AlSb superlattice-based heterojunction phototransistors: back to the future 2018 ,		2
272	Single-mode, high-power, mid-infrared, quantum cascade laser phased arrays. <i>Scientific Reports</i> , 2018 , 8, 14866	4.9	11
271	. IEEE Journal of Quantum Electronics, 2018 , 54, 1-5	2	5

(2017-2018)

Impact of scaling base thickness on the performance of heterojunction phototransistors. Nanotexchnology, 2017, 28, 101.010 A lifetime of contributions to the world of semiconductors using the Czochralski invention. Vacuum, 27 1 268 A lifetime of contributions to the world of semiconductors using the Czochralski invention. Vacuum, 27 1 269 Backgroundlimited long wavelength infrared InAs/InAs1IXSbx type-II superlattice-based 2017, 146, 308-328 260 High efficiency quantum cascade laser frequency comb. Scientific Reports, 2017, 7, 43806 261 Extended short-wavelength infrared InBn photodetectors based on type-II InAs/InSb/GaSb superlattices with an AlASSb/GaSb superlattice barrier. Applied Physics Letters, 2017, 110, 101104 262 Extended short-wavelength infrared photodetectors based on type-II InAs/InAs1b/GaSb superlattices with an AlASSb/GaSb superlattice barrier. Applied Physics Letters, 2017, 110, 101104 263 Photodetectors 2017, 264 Photodetectors 2017, 265 Dispersion compensated mid-infrared quantum cascade laser frequency comb with high power output. AIP Advances, 2017, 7, 045313 262 Bias-selectable nBn dual-band long-/very long-wavelength infrared photodetectors based on InAs/InAsSb/AlAsSb type-II superlattices. Scientific Reports, 2017, 7, 3379 266 Preface to Special Topic: Emerging materials for photonics. APL Materials, 2017, 5, 035101 277 Study of Au coated ZnO nanoarrays for surface enhanced Raman scattering chemical sensing. 278 Journal of Materials Chemistry C, 2017, 5, 3528-3535 279 Dark current reduction in microjunction-based double electron barrier type-II InAs/InAsSb superlattice long-wavelength infrared photodetectors. Scientific Reports, 2017, 7, 12617 279 Direct growth of thick AIN layers on nanopatterned Si substrates by cantilever epitaxy. Physica 270 Bias-selectable three-color short-, extended-short-, and mid-wavelength infrared photodetectors based on type-II InAs/GaSb/AIS superlattices. Optics Letters, 2017, 42, 4275-4278 270 Bias-selectable three-color short-, extended-s	270	Demonstration of long wavelength infrared type-II InAs/InAs1-xSbx superlattices photodiodes on GaSb substrate grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2018 , 112, 241103	3.4	14	
2017, 146, 308-328 2017, 146, 308-328 2017, 146, 308-328 2018 2018 2019 2019 2020 2020 203 204 205 206 206 207 208 207 208 208 208 208 209 209 209 209	269		3.4	17	
photodetectors operating at 110 K. APL Materials, 2017, 5, 035502 57 25 High efficiency quantum cascade laser frequency comb. Scientific Reports, 2017, 7, 43806 4.9 16 Extended short-wavelength infrared nBn photodetectors based on type-II InAs/AISb/GaSb superlattices with an AIAsSb/GaSb superlattice barrier. Applied Physics Letters, 2017, 110, 101104 34 38 Recent advances in InAs/InAs1-xSbx/AIAs1-xSbx gap-engineered type-II superlattice-based photodetectors 2017, Dispersion compensated mid-infrared quantum cascade laser frequency comb with high power output. AIP Advances, 2017, 7, 045313 1.5 8 Bias-selectable nBn dual-band long-/very long-wavelength infrared photodetectors based on InAs/InAsSb/AIAsSb type-II superlattices. Scientific Reports, 2017, 7, 3379 4.9 39 Preface to Special Topic: Emerging materials for photonics. APL Materials, 2017, 5, 035101 5.7 260 Study of Au coated ZnO nanoarrays for surface enhanced Raman scattering chemical sensing. Journal of Materials Chemistry C, 2017, 5, 3528-3535 7.1 38 259 Dark current reduction in microjunction-based double electron barrier type-II InAs/InAsSb superlattice long-wavelength infrared photodetectors. Scientific Reports, 2017, 7, 12617 4.9 11 258 Reports, 2017, 7, 4472 4.9 Direct growth of thick AIN layers on nanopatterned Si substrates by cantilever epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600363 1.6 12 256 Bias-selectable three-color short-, extended-short-, and mid-wavelength infrared photodetectors based on type-II InAs/GaSb/AISb superlattices. Optics Letters, 2017, 42, 4275-4278 3.0 17 Type-II superlattice-based extended short-wavelength infrared focal plane array with an AIAsSb/GaSb superlattice etch-stop layer to allow near-visible light detection. Optics Letters, 2017, 42, 4299-4302 Recent progress of quantum cascade laser research from 3 to 12 Bh at the Center for Quantum	268		3.7	1	
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superlattices with an AlAssb/GaSb superlattice barrier. Applied Physics Letters, 2017, 110, 101104 34 35 264 Recent advances in InAs/InAs1-xSbx/AlAs1-xSbx gap-engineered type-II superlattice-based photodetectors 2017, 10 263 Dispersion compensated mid-infrared quantum cascade laser frequency comb with high power output. AIP Advances, 2017, 7, 045313 15 262 Bias-selectable nBn dual-band long-/very long-wavelength infrared photodetectors based on InAs/InAsSb/AlAsSb type-II superlattices. Scientific Reports, 2017, 7, 3379 49 39 261 Preface to Special Topic: Emerging materials for photonics. APL Materials, 2017, 5, 035101 57 260 Study of Au coated ZnO nanoarrays for surface enhanced Raman scattering chemical sensing. 261 Journal of Materials Chemistry C, 2017, 5, 3528-3535 7.1 38 262 Dark current reduction in microjunction-based double electron barrier type-II InAs/InAsSb superlattice long-wavelength infrared photodetectors. Scientific Reports, 2017, 7, 12617 49 11 263 Monolithic beam steering in a mid-infrared, surface-emitting, photonic integrated circuit. Scientific Reports, 2017, 7, 8472 49 5 264 Direct growth of thick AIN layers on nanopatterned Si substrates by cantilever epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600363 16 12 265 Bias-selectable three-color short-, extended-short-, and mid-wavelength infrared photodetectors based on type-II InAs/GaSb/AISb superlattices. Optics Letters, 2017, 42, 4275-4278 59 4, 1228 266 High performance monolithic, broadly tunable mid-infrared quantum cascade lasers. Optica, 2017, 8, 6 20 275 Type-II superlattice-based extended short-wavelength infrared focal plane array with an 42, 4299-4302 40 42, 4299-43	266	High efficiency quantum cascade laser frequency comb. Scientific Reports, 2017, 7, 43806	4.9	16	
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258 Monolithic beam steering in a mid-infrared, surface-emitting, photonic integrated circuit. Scientific Reports, 2017, 7, 8472 258 Monolithic beam steering in a mid-infrared, surface-emitting, photonic integrated circuit. Scientific Reports, 2017, 7, 8472 257 Direct growth of thick AlN layers on nanopatterned Si substrates by cantilever epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600363 256 Bias-selectable three-color short-, extended-short-, and mid-wavelength infrared photodetectors based on type-II InAs/GaSb/AlSb superlattices. Optics Letters, 2017, 42, 4275-4278 257 High performance monolithic, broadly tunable mid-infrared quantum cascade lasers. Optica, 2017, 4, 1228 258 Type-II superlattice-based extended short-wavelength infrared focal plane array with an AlAsSb/GaSb superlattice etch-stop layer to allow near-visible light detection. Optics Letters, 2017, 42, 4299-4302 259 Recent progress of quantum cascade laser research from 3 to 12 fb at the Center for Quantum	260		7.1	38	
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AlAsSb/GaSb superlattice etch-stop layer to allow near-visible light detection. <i>Optics Letters</i> , 2017 , 42, 4299-4302 Recent progress of quantum cascade laser research from 3 to 12 fb at the Center for Quantum	255		8.6	20	
	254	AlAsSb/GaSb superlattice etch-stop layer to allow near-visible light detection. Optics Letters, 2017,	3	17	
	253		1.7	40	

252	Progress in monolithic, broadband, widely tunable midinfrared quantum cascade lasers. <i>Optical Engineering</i> , 2017 , 57, 1	1.1	3
251	Monolithically, widely tunable quantum cascade lasers based on a heterogeneous active region design. <i>Scientific Reports</i> , 2016 , 6, 25213	4.9	30
250	High performance bias-selectable three-color Short-wave/Mid-wave/Long-wave Infrared Photodetectors based on Type-II InAs/GaSb/AlSb superlattices. <i>Scientific Reports</i> , 2016 , 6, 24144	4.9	63
249	Room temperature continuous wave, monolithic tunable THz sources based on highly efficient mid-infrared quantum cascade lasers. <i>Scientific Reports</i> , 2016 , 6, 23595	4.9	57
248	Mid-wavelength infrared heterojunction phototransistors based on type-II InAs/AlSb/GaSb superlattices. <i>Applied Physics Letters</i> , 2016 , 109, 021107	3.4	23
247	High brightness angled cavity quantum cascade lasers. <i>Applied Physics Letters</i> , 2015 , 106, 091105	3.4	42
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