

Heinz-Wilhelm Hbers

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.

147
papers

2,589
citations

29
h-index


44
g-index

176
ext. papers

3,276
ext. citations

3.2
avg, IF

5.01
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 147 |  <i>Fizika I Tekhnika Poluprovodnikov</i> , 2021 , 55, 299 | 0 | 0 |
| 146 | Direct measurements of atomic oxygen in the mesosphere and lower thermosphere using terahertz heterodyne spectroscopy. <i>Communications Earth & Environment</i> , 2021 , 2, | 6.1 | 5 |
| 145 | Magnesium-related shallow donor centers in silicon. <i>Materials Science in Semiconductor Processing</i> , 2021 , 130, 105833 | 4.3 | 0 |
| 144 | Intracenter dipole transitions of a hydrogen-like boron acceptor in diamond: Oscillator strengths and line broadening. <i>Diamond and Related Materials</i> , 2021 , 120, 108629 | 3.5 | 0 |
| 143 | Dual-Band Transmitter and Receiver With Bowtie-Antenna in 0.13 μm SiGe BiCMOS for Gas Spectroscopy at 222 - 270 GHz. <i>IEEE Access</i> , 2021 , 9, 124805-124816 | 3.5 | 6 |
| 142 | A 3.5-THz, 6-Harmonic, Single-Ended Schottky Diode Mixer for Frequency Stabilization of Quantum-Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 1-1 | 3.4 | 3 |
| 141 | Influence of uniaxial stress on phonon-assisted relaxation in bismuth-doped silicon. <i>Journal of Applied Physics</i> , 2020 , 127, 035706 | 2.5 | 1 |
| 140 | High-Performance GaAs/AlAs Terahertz Quantum-Cascade Lasers For Spectroscopic Applications. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 133-140 | 3.4 | 7 |
| 139 | Higher-order Zeeman effect of Mg-related donor complexes in silicon. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 138 | A balloon-borne 4.75 THz-heterodyne receiver to probe atomic oxygen in the atmosphere 2020 , | | 1 |
| 137 | Laser emission at 4.5 THz from NH and a mid-infrared quantum-cascade laser as a pump source. <i>Optics Express</i> , 2020 , 28, 23114-23121 | 3.3 | 4 |
| 136 | Qualitative and quantitative analysis of terahertz gas-phase spectroscopy using independent component analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 206, 104129 | 3.8 | 4 |
| 135 |  <i>Fizika I Tekhnika Poluprovodnikov</i> , 2020 , 54, 816 | 0 | |
| 134 | Evaluation of Low-Cost Thermal Laser Stimulation for Data Extraction and Key Readout. <i>Journal of Hardware and Systems Security</i> , 2020 , 4, 24-33 | 1.6 | 3 |
| 133 | A Compact Circular Multipass Cell for Millimeter-Wave/Terahertz Gas Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 9-14 | 3.4 | 14 |
| 132 | Large substitutional impurity isotope shift in infrared spectra of boron-doped diamond. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 131 | Frequency Tuning of Terahertz Stimulated Emission under the Intracenter Optical Excitation of Uniaxially Stressed Si:Bi. <i>Semiconductors</i> , 2020 , 54, 969-974 | 0.7 | |

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| 130 | Terahertz transient stimulated emission from doped silicon. <i>APL Photonics</i> , 2020 , 5, 106102 | 5.2 | 1 |
| 129 | Low-level LIBS and Raman data fusion in the context of in situ Mars exploration. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1682-1701 | 2.3 | 7 |
| 128 | Gas Spectroscopy at 222 - 270 GHz Based on SiGe BiCMOS using a Multi-Pass Ring Cell 2019 , | | 1 |
| 127 | Chemical Shift and Exchange Interaction Energy of the 1s States of Magnesium Donors in Silicon. The Possibility of Stimulated Emission. <i>Semiconductors</i> , 2019 , 53, 1234-1237 | 0.7 | 3 |
| 126 | Stimulated Terahertz Emission of Bismuth Donors in Uniaxially Strained Silicon under Optical Intracenter Excitation. <i>Semiconductors</i> , 2019 , 53, 1255-1257 | 0.7 | |
| 125 | Dynamics of infrared excitations in boron doped diamond. <i>Diamond and Related Materials</i> , 2019 , 92, 259-265 | 3.5 | 3 |
| 124 | Analysis of Human Breath by Millimeter-Wave/Terahertz Spectroscopy. <i>Sensors</i> , 2019 , 19, | 3.8 | 29 |
| 123 | Shallow donor complexes formed by pairing of double-donor magnesium with group-III acceptors in silicon. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 7 |
| 122 | High-resolution, background-free spectroscopy of shallow-impurity transitions in semiconductors with a terahertz photomixer source. <i>Applied Physics Letters</i> , 2019 , 114, 092103 | 3.4 | 0 |
| 121 | Transmitters and receivers in SiGe BiCMOS technology for sensitive gas spectroscopy at 222 - 270 GHz. <i>AIP Advances</i> , 2019 , 9, 015213 | 1.5 | 13 |
| 120 | High-resolution terahertz spectroscopy with quantum-cascade lasers. <i>Journal of Applied Physics</i> , 2019 , 125, 151401 | 2.5 | 17 |
| 119 | A Compact 4.75-THz Source Based on a Quantum-Cascade Laser With a Back-Facet Mirror. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 606-612 | 3.4 | 7 |
| 118 | Terahertz Dynamic Aperture Imaging at Standoff Distances Using a Compressed Sensing Protocol. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 364-372 | 3.4 | 6 |
| 117 | Laser-Ablated Silicon in the Frequency Range From 0.1 to 4.7 THz. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 581-586 | 3.4 | 1 |
| 116 | Wideband, high-resolution terahertz spectroscopy by light-induced frequency tuning of quantum-cascade lasers. <i>Optics Express</i> , 2019 , 27, 5420-5432 | 3.3 | 8 |
| 115 | Frequency and power stabilization of a terahertz quantum-cascade laser using near-infrared optical excitation. <i>Optics Express</i> , 2019 , 27, 36846-36854 | 3.3 | 1 |
| 114 | Laser-processed diffractive lenses for the frequency range of 4.7 THz. <i>Optics Letters</i> , 2019 , 44, 1210-1213 | 3 | 7 |
| 113 |   <i>Fizika i Tekhnika Poluprovodnikov</i> , 2019 , 53, 1263 | 0 | |

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| 112 | Relaxation Times and Population Inversion of Excited States of Arsenic Donors in Germanium. <i>JETP Letters</i> , 2019 , 110, 677-682 | 1.2 | 7 |
| 111 | Even-Parity Excited States in Infrared Emission, Absorption, and Raman Scattering Spectra of Shallow Donor Centers in Silicon. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800514 | 1.3 | 1 |
| 110 | Mask Responses for Single-Pixel Terahertz Imaging. <i>Scientific Reports</i> , 2018 , 8, 4886 | 4.9 | 11 |
| 109 | Towards Breath Gas Analysis Based on Millimeter-Wave Molecular Spectroscopy. <i>Frequenz</i> , 2018 , 72, 87-92 | 0.6 | 6 |
| 108 | Intrinsic frequency tuning of terahertz quantum-cascade lasers. <i>Journal of Applied Physics</i> , 2018 , 123, 213102 | 2.5 | 7 |
| 107 | Doppler-free spectroscopy with a terahertz quantum-cascade laser. <i>Optics Express</i> , 2018 , 26, 6692-6699 | 3.3 | 12 |
| 106 | Further investigations of the deep double donor magnesium in silicon. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 7 |
| 105 | Radii of Rydberg states of isolated silicon donors. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 9 |
| 104 | Molecular spectroscopy with a terahertz quantum-cascade laser by illumination-induced frequency tuning 2018 , | | 1 |
| 103 | Relaxation of Coulomb States in Semiconductors Probed by FEL Radiation. <i>EPJ Web of Conferences</i> , 2018 , 195, 07008 | 0.3 | |
| 102 | The upGREAT Dual Frequency Heterodyne Arrays for SOFIA. <i>Journal of Astronomical Instrumentation</i> , 2018 , 07, 1840014 | 0.8 | 35 |
| 101 | Sensitive Millimeter-Wave/Terahertz Gas Spectroscopy Based on SiGe BiCMOS Technology 2018 , | | 3 |
| 100 | Mg-pair isoelectronic bound exciton identified by its isotopic fingerprint in Si ²⁸ . <i>Physical Review B</i> , 2018 , 98, | 3.3 | 4 |
| 99 | Competing Inversion-Based Lasing and Raman Lasing in Doped Silicon. <i>Physical Review X</i> , 2018 , 8, | 9.1 | 1 |
| 98 | Detection of Volatile Organic Compounds in Exhaled Human Breath by Millimeter- Wave/Terahertz spectroscopy 2018 , | | 2 |
| 97 | Gas Spectroscopy System for Breath Analysis at mm-wave/THz Using SiGe BiCMOS Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1807-1818 | 4.1 | 43 |
| 96 | Dynamics of non-equilibrium charge carriers in p-germanium doped by gallium. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600803 | 1.3 | 5 |
| 95 | Diffusion doping of silicon with magnesium. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700192 | 1.6 | 9 |

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|----|---|-----|----|
| 94 | Heterodyne Spectroscopy of Frequency Instabilities in Terahertz Quantum-Cascade Lasers Induced by Optical Feedback. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-6 | 3.8 | 9 |
| 93 | Real-time gas sensing based on optical feedback in a terahertz quantum-cascade laser. <i>Optics Express</i> , 2017 , 25, 30203-30213 | 3.3 | 10 |
| 92 | Gas spectroscopy system with transmitters and receivers in SiGe BiCMOS for 225-273 GHz 2017 , | | 1 |
| 91 | Terahertz gas spectroscopy through self-mixing in a quantum-cascade laser. <i>Applied Physics Letters</i> , 2016 , 109, 191101 | 3.4 | 20 |
| 90 | High-spectral-resolution terahertz imaging with a quantum-cascade laser. <i>Optics Express</i> , 2016 , 24, 13839-49 | 3.4 | 18 |
| 89 | Identification of Unknown Substances by Terahertz Spectroscopy and Multivariate Data Analysis. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016 , 37, 175-188 | 2.2 | 11 |
| 88 | 245-GHz Transmitter Array in SiGe BiCMOS for Gas Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 318-327 | 3.4 | 33 |
| 87 | Terahertz absorption and emission upon the photoionization of acceptors in uniaxially stressed silicon. <i>Semiconductors</i> , 2016 , 50, 1458-1462 | 0.7 | |
| 86 | Fast continuous tuning of terahertz quantum-cascade lasers by rear-facet illumination. <i>Applied Physics Letters</i> , 2016 , 108, 191106 | 3.4 | 21 |
| 85 | Gas spectroscopy system at 245 and 500 GHz using transmitters and receivers in SiGe BiCMOS 2016 , | | 5 |
| 84 | Gas Spectroscopy by Voltage-Frequency Tuning of a 245 GHz SiGe Transmitter and Receiver. <i>IEEE Sensors Journal</i> , 2016 , 16, 8863-8864 | 4 | 6 |
| 83 | Sensor system in SiGe BiCMOS at 245 and 500 GHz for gas spectroscopy 2016 , | | 3 |
| 82 | Dynamics of nonequilibrium electrons on neutral center states of interstitial magnesium donors in silicon. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 7 |
| 81 | 245 GHz SiGe sensor system for gas spectroscopy. <i>International Journal of Microwave and Wireless Technologies</i> , 2015 , 7, 271-278 | 0.8 | 16 |
| 80 | 4.7-THz Superconducting Hot Electron Bolometer Waveguide Mixer. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 207-214 | 3.4 | 67 |
| 79 | Compressed Sensing in a Fully Non-Mechanical 350 GHz Imaging Setting. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015 , 36, 496-512 | 2.2 | 20 |
| 78 | Tunable 500GHz transmitter array in SiGe technology for gas spectroscopy. <i>Electronics Letters</i> , 2015 , 51, 257-259 | 1.1 | 17 |
| 77 | 4.7-THz Local Oscillator for the GREAT Heterodyne Spectrometer on SOFIA. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 539-545 | 3.4 | 59 |

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|----|---|------|----|
| 76 | Tunable 500 GHz sensor system in SiGe technology for gas spectroscopy. <i>Electronics Letters</i> , 2015 , 51, 1345-1347 | 1.1 | 9 |
| 75 | Terahertz gas-sensors: Gas-phase spectroscopy and multivariate analysis for medical and security applications 2015 , | | 2 |
| 74 | First detection of the 63 th atomic oxygen line in the thermosphere of Mars with GREAT/SOFIA. <i>Astronomy and Astrophysics</i> , 2015 , 580, L10 | 5.1 | 22 |
| 73 | Terahertz gas-phase spectroscopy: chemometrics for security and medical applications. <i>Analyst, The</i> , 2015 , 140, 213-22 | 5 | 38 |
| 72 | Characterizing the beam properties of terahertz quantum-cascade lasers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014 , 35, 686-698 | 2.2 | 12 |
| 71 | Photon assisted tunneling in pairs of silicon donors. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 5 |
| 70 | 245 GHz transmitter and receiver in SiGe for gas spectroscopy 2014 , | | 3 |
| 69 | Tunable 245 GHz transmitter and receiver in SiGe technology for gas spectroscopy. <i>Electronics Letters</i> , 2014 , 50, 881-882 | 1.1 | 25 |
| 68 | Time-resolved electronic capture in n-type germanium doped with antimony. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 14 |
| 67 | Terahertz Stimulated Emission from Silicon Doped by Hydrogenlike Acceptors. <i>Physical Review X</i> , 2014 , 4, | 9.1 | 6 |
| 66 | High Resolution Terahertz Spectroscopy with Quantum Cascade Lasers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013 , 34, 325-341 | 2.2 | 39 |
| 65 | Fast 2-D and 3-D Terahertz Imaging With a Quantum-Cascade Laser and a Scanning Mirror. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 617-624 | 3.4 | 44 |
| 64 | The physical principles of terahertz silicon lasers based on intracenter transitions. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 9-36 | 1.3 | 21 |
| 63 | Frequency modulation spectroscopy with a THz quantum-cascade laser. <i>Optics Express</i> , 2013 , 21, 32199-3206 | 3.5 | 34 |
| 62 | Quantum-cascade lasers as local oscillators for heterodyne spectrometers in the spectral range around 4.745 THz. <i>Semiconductor Science and Technology</i> , 2013 , 28, 035011 | 1.8 | 27 |
| 61 | Si:P as a laboratory analogue for hydrogen on high magnetic field white dwarf stars. <i>Nature Communications</i> , 2013 , 4, 1469 | 17.4 | 44 |
| 60 | Isotope effect on the lifetime of the 2p ₀ state in phosphorus-doped silicon. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 13 |
| 59 | Terahertz Techniques. <i>Springer Series in Optical Sciences</i> , 2012 , | 0.5 | 87 |

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|----|---|-----|----|
| 58 | The ionized and hot gas in M17SW. <i>Astronomy and Astrophysics</i> , 2012 , 542, L13 | 5.1 | 23 |
| 57 | [12Cii] and [13C ii] 158 μ m emission from NGC 2024: Large column densities of ionized carbon. <i>Astronomy and Astrophysics</i> , 2012 , 542, L16 | 5.1 | 32 |
| 56 | Optical Principles at Terahertz Frequencies. <i>Springer Series in Optical Sciences</i> , 2012 , 23-49 | 0.5 | |
| 55 | Optical Components. <i>Springer Series in Optical Sciences</i> , 2012 , 51-101 | 0.5 | 1 |
| 54 | Detectors. <i>Springer Series in Optical Sciences</i> , 2012 , 169-245 | 0.5 | 0 |
| 53 | Spectroscopic Methods. <i>Springer Series in Optical Sciences</i> , 2012 , 247-300 | 0.5 | |
| 52 | Terahertz Imaging. <i>Springer Series in Optical Sciences</i> , 2012 , 301-340 | 0.5 | 2 |
| 51 | Terahertz wavefront measurement with a Hartmann sensor. <i>Applied Physics Letters</i> , 2012 , 101, 031103 | 3.4 | 9 |
| 50 | SOFIA observations of far-infrared hydroxyl emission toward classical ultracompact HII/OH maser regions. <i>Astronomy and Astrophysics</i> , 2012 , 542, L8 | 5.1 | 9 |
| 49 | Multifrequency terahertz lasing from codoped silicon crystals. <i>Applied Physics Letters</i> , 2011 , 98, 061102 | 3.4 | 12 |
| 48 | Terahertz Spectroscopy: System and Sensitivity Considerations. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011 , 1, 321-331 | 3.4 | 25 |
| 47 | Spin-orbit coupling effect on bismuth donor lasing in stressed silicon. <i>Applied Physics Letters</i> , 2011 , 99, 171108 | 3.4 | 5 |
| 46 | Multi-channel terahertz grating spectrometer with quantum-cascade laser and microbolometer array. <i>Applied Physics Letters</i> , 2011 , 99, 141112 | 3.4 | 18 |
| 45 | Submegahertz frequency stabilization of a terahertz quantum cascade laser to a molecular absorption line. <i>Applied Physics Letters</i> , 2010 , 96, 071112 | 3.4 | 41 |
| 44 | Influence of an electric field on the operation of terahertz intracenter silicon lasers. <i>Journal of Applied Physics</i> , 2010 , 107, 033114 | 2.5 | 2 |
| 43 | A compact, continuous-wave terahertz source based on a quantum-cascade laser and a miniature cryocooler. <i>Optics Express</i> , 2010 , 18, 10177-87 | 3.3 | 63 |
| 42 | Inhomogeneous broadening of phosphorus donor lines in the far-infrared spectra of single-crystalline SiGe. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 16 |
| 41 | Using terahertz cascade lasers for determination of optical losses in active medium of silicon intracenter lasers 2010 , | | 1 |

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|----|---|-----|-----|
| 40 | The rotational spectrum of the NH ⁺ radical in its X 2Pi and a 4Sigma- states. <i>Journal of Chemical Physics</i> , 2009 , 131, 034311 | 3.9 | 16 |
| 39 | Stimulated terahertz emission due to electronic Raman scattering in silicon. <i>Applied Physics Letters</i> , 2009 , 94, 171112 | 3.4 | 10 |
| 38 | Towards traceable radiometry in the terahertz region. <i>Metrologia</i> , 2009 , 46, S160-S164 | 2.1 | 37 |
| 37 | Optimizing the Operation of Terahertz Silicon Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 925-932 | 3.8 | 4 |
| 36 | Raman lasers due to scattering on donor electronic resonances in silicon. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4661-4663 | 2.8 | 4 |
| 35 | Terahertz lasing from silicon by infrared Raman scattering on bismuth centers. <i>Applied Physics Letters</i> , 2009 , 95, 201110 | 3.4 | 7 |
| 34 | Terahertz Heterodyne Receivers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 378-393 | 3.8 | 123 |
| 33 | Terahertz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer in a pulse tube cooler. <i>Applied Physics Letters</i> , 2008 , 93, 141108 | 3.4 | 57 |
| 32 | Evidence of noncascade intracenter electron relaxation in shallow donor centers in silicon. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 9 |
| 31 | Terahertz Raman laser based on silicon doped with phosphorus. <i>Applied Physics Letters</i> , 2008 , 92, 091111 | 3.4 | 12 |
| 30 | Multi-crystalline silicon as active medium for terahertz intracenter lasers. <i>Physica B: Condensed Matter</i> , 2008 , 403, 535-538 | 2.8 | 1 |
| 29 | Low-threshold terahertz Si:As laser. <i>Applied Physics Letters</i> , 2007 , 90, 141109 | 3.4 | 14 |
| 28 | Terahertz gain on shallow donor transitions in silicon. <i>Journal of Applied Physics</i> , 2007 , 102, 093104 | 2.5 | 14 |
| 27 | Terahertz Performance of Integrated Lens Antennas With a Hot-Electron Bolometer. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 239-247 | 4.1 | 90 |
| 26 | Influence of uniaxial stress on stimulated terahertz emission from phosphor and antimony donors in silicon. <i>Applied Physics Letters</i> , 2007 , 90, 051101 | 3.4 | 13 |
| 25 | High-resolution gas phase spectroscopy with a distributed feedback terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2006 , 89, 061115 | 3.4 | 109 |
| 24 | Frequency tunability of the terahertz silicon laser by a magnetic field. <i>Applied Physics Letters</i> , 2006 , 89, 021108 | 3.4 | 4 |
| 23 | Stimulated terahertz stokes emission of silicon crystals doped with antimony donors. <i>Physical Review Letters</i> , 2006 , 96, 037404 | 7.4 | 43 |

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| 22 | Defect centers in intracenter Si:P lasers. <i>Journal of Applied Physics</i> , 2005 , 97, 113708 | 2.5 | 8 |
| 21 | Terahertz lasers based on germanium and silicon. <i>Semiconductor Science and Technology</i> , 2005 , 20, S211-S221 | 5.8 | 75 |
| 20 | Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. <i>Optics Express</i> , 2005 , 13, 5890-6 | 3.3 | 120 |
| 19 | The development of terahertz superconducting hot-electron bolometric mixers. <i>Superconductor Science and Technology</i> , 2004 , 17, S436-S439 | 3.1 | 4 |
| 18 | Nonequilibrium electron distribution in terahertz intracenter silicon lasers. <i>Semiconductor Science and Technology</i> , 2004 , 19, S465-S468 | 1.8 | 8 |
| 17 | Stimulated terahertz emission from arsenic donors in silicon. <i>Applied Physics Letters</i> , 2004 , 84, 3600-3602 | 3.4 | 33 |
| 16 | Laser transitions under resonant optical pumping of donor centres in Si:P. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 613-616 | 1.9 | 8 |
| 15 | Optically pumped terahertz semiconductor bulk lasers. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 126-134 | 1.3 | 17 |
| 14 | Terahertz Silicon Lasers 2003 , 331-340 | | 1 |
| 13 | Terahertz Emission Spectra of Optically Pumped Silicon Lasers. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 233, 191-196 | 1.3 | 20 |
| 12 | 2.5 THz heterodyne receiver with NbN hot-electron-bolometer mixer. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 372-376, 448-453 | 1.3 | 14 |
| 11 | Far-infrared stimulated emission from optically excited bismuth donors in silicon. <i>Applied Physics Letters</i> , 2002 , 80, 4717-4719 | 3.4 | 47 |
| 10 | Terahertz optically pumped Si:Sb laser. <i>Journal of Applied Physics</i> , 2002 , 92, 5632-5634 | 2.5 | 31 |
| 9 | Stimulated terahertz emission from group-V donors in silicon under intracenter photoexcitation. <i>Applied Physics Letters</i> , 2002 , 80, 3512-3514 | 3.4 | 31 |
| 8 | . <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 134-142 | 4.1 | 2 |
| 7 | Influence of group II and III shallow acceptors on the gain of p-Ge lasers. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 334-341 | 2.8 | 3 |
| 6 | FIR lasing based on group V donor transitions in silicon. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 342-348 | 2.8 | 8 |
| 5 | Terahertz emission from silicon doped by shallow impurities. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 232-235 | 2.8 | 12 |

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| 4 | Parylene anti-reflection coating of a quasi-optical hot-electron-bolometric mixer at terahertz frequencies. <i>Infrared Physics and Technology</i> , 2001 , 42, 41-47 | 2.7 | 50 |
| 3 | Stimulated emission from donor transitions in silicon. <i>Physical Review Letters</i> , 2000 , 84, 5220-3 | 7.4 | 114 |
| 2 | Noise temperature of an NbN hot-electron bolometric mixer at frequencies from 0.7 THz to 5.2 THz. <i>Superconductor Science and Technology</i> , 1999 , 12, 748-750 | 3.1 | 6 |
| 1 | Population inversion and far-infrared emission from optically pumped silicon. <i>Applied Physics Letters</i> , 1999 , 74, 2655-2657 | 3.4 | 23 |