

Hua Li

List of Publications by Year in descending order

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papers

969
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454955

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60
docs citations

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times ranked

929
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Terahertz Nanoimaging of Graphene. ACS Photonics, 2018, 5, 2645-2651. | 6.6 | 78 |
| 2 | Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. Optics Express, 2015, 23, 33270. | 3.4 | 70 |
| 3 | Multicolor Tê€Ray Imaging Using Multispectral Metamaterials. Advanced Science, 2018, 5, 1700982. | 11.2 | 64 |
| 4 | Fast Uncooled Midê€Wavelength Infrared Photodetectors with Heterostructures of van der Waals on Epitaxial HgCdTe. Advanced Materials, 2022, 34, e2107772. | 21.0 | 58 |
| 5 | Toward Compact and Real-Time Terahertz Dual-Comb Spectroscopy Employing a Self-Detection Scheme. ACS Photonics, 2020, 7, 49-56. | 6.6 | 48 |
| 6 | 6.2-GHz modulated terahertz light detection using fast terahertz quantum well photodetectors. Scientific Reports, 2017, 7, 3452. | 3.3 | 44 |
| 7 | Broadband Achromatic Subê€Diffraction Focusing by an Amplitudeê€Modulated Terahertz Metalens. Advanced Optical Materials, 2020, 8, 2000842. | 7.3 | 43 |
| 8 | Wireless communication demonstration at 4.1ê€...THz using quantum cascade laser and quantum well photodetector. Electronics Letters, 2011, 47, 1002. | 1.0 | 35 |
| 9 | Monte Carlo simulation of extraction barrier width effects on terahertz quantum cascade lasers. Applied Physics Letters, 2008, 92, 221105. | 3.3 | 34 |
| 10 | Sub-wavelength tight-focusing of terahertz waves by polarization-independent high-numerical-aperture dielectric metalens. Optics Express, 2018, 26, 29817. | 3.4 | 34 |
| 11 | Monte Carlo simulation of carrier transport and output characteristics of terahertz quantum cascade lasers. Journal of Applied Physics, 2008, 103, 103113. | 2.5 | 32 |
| 12 | Ultrafast Quantum-Well Photodetectors Operating at 10 ê€4m with a Flat Frequency Response up to 70 GHz at Room Temperature. ACS Photonics, 2021, 8, 464-471. | 6.6 | 32 |
| 13 | Coupled-cavity terahertz quantum cascade lasers for single mode operation. Applied Physics Letters, 2014, 104, . | 3.3 | 30 |
| 14 | 5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. Optica, 2017, 4, 168. | 9.3 | 30 |
| 15 | Broadband THz to NIR up-converter for photon-type THz imaging. Nature Communications, 2019, 10, 3513. | 12.8 | 28 |
| 16 | Grapheneê€Coupled Terahertz Semiconductor Lasers for Enhanced Passive Frequency Comb Operation. Advanced Science, 2019, 6, 1900460. | 11.2 | 28 |
| 17 | A study of terahertz quantum cascade lasers: Experiment versus simulation. Journal of Applied Physics, 2008, 104, 043101. | 2.5 | 21 |
| 18 | On-Chip Dual-Comb Source Based on Terahertz Quantum Cascade Lasers Under Microwave Double Injection. Physical Review Applied, 2019, 12, . | 3.8 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Implantable, Degradable, Therapeutic Terahertz Metamaterial Devices. <i>Small</i> , 2020, 16, e2000294. | 10.0 | 18 |
| 20 | Active Stabilization of Terahertz Semiconductor Dual-Comb Laser Sources Employing a Phase Locking Technique. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000498. | 8.7 | 18 |
| 21 | Hollow MgO Nanotube Arrays by Using ZnO Nanorods as Templates. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2727-2732. | 2.0 | 14 |
| 22 | Effects of design parameters on the performance of terahertz quantum-cascade lasers. <i>Semiconductor Science and Technology</i> , 2008, 23, 125040. | 2.0 | 13 |
| 23 | Temperature profile modelling and experimental investigation of thermal resistance of terahertz quantum-cascade lasers. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205102. | 2.8 | 12 |
| 24 | High Efficiency Injectorless Quantum Cascade Lasers Emitting at 8.8 μm With 2-W Peak Pulsed Power per Facet at Room Temperature. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1811-1813. | 2.5 | 12 |
| 25 | Comparison of resonant-phonon-assisted terahertz quantum-cascade lasers with one-well injector and three-well module. <i>Journal of Applied Physics</i> , 2008, 104, 103101. | 2.5 | 11 |
| 26 | Temperature performance of terahertz quantum-cascade lasers: experiment versus simulation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 025101. | 2.8 | 10 |
| 27 | Unambiguous real-time terahertz frequency metrology using dual 10 μm GHz femtosecond frequency combs. <i>Optica</i> , 2018, 5, 1431. | 9.3 | 9 |
| 28 | Deep learning enhanced terahertz imaging of silkworm eggs development. <i>IScience</i> , 2021, 24, 103316. | 4.1 | 9 |
| 29 | Microstructural study of MBE-grown ZnO film on GaN/sapphire (0001) substrate. <i>Open Physics</i> , 2008, 6, . | 1.7 | 8 |
| 30 | Phase change of Ge ₂ Sb ₂ Te ₅ under terahertz laser illumination. <i>APL Materials</i> , 2021, 9, . | 5.1 | 8 |
| 31 | Real-time multimode dynamics of terahertz quantum cascade lasers via intracavity self-detection: observation of self mode-locked population pulsations. <i>Optics Express</i> , 2022, 30, 3215. | 3.4 | 8 |
| 32 | Temperature performance of resonant-phonon-assisted terahertz quantum-cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 282-284. | 2.7 | 7 |
| 33 | Simulation investigation on waveguide properties of terahertz wave through subwavelength semiconductor gap. <i>Optik</i> , 2010, 121, 604-608. | 2.9 | 7 |
| 34 | Broad gain bandwidth injectorless quantum-cascade lasers with a step well design. <i>Applied Physics Letters</i> , 2011, 98, 131113. | 3.3 | 7 |
| 35 | Direct detection of a fast modulated terahertz light with a spectrally matched quantum-well photodetector. <i>Electronics Letters</i> , 2017, 53, 91-93. | 1.0 | 7 |
| 36 | Sideband generation of coupled-cavity terahertz semiconductor lasers under active radio frequency modulation. <i>Optics Express</i> , 2018, 26, 32675. | 3.4 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Ultra-broadband THz/IR upconversion and photovoltaic response in semiconductor ratchet-based upconverter. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 6 |
| 38 | An Ultra-High-Sensitivity Superconducting Hot-Electron-Bolometer Heterodyne Receiver at 2.5 THz With an Integrated Low-Power-Consumption Quantum Cascade Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018, 8, 581-587. | 3.1 | 5 |
| 39 | MgO nanobelts using a reactive and auto-removed ZnO nanobelt template. <i>Solid State Communications</i> , 2008, 147, 57-60. | 1.9 | 4 |
| 40 | The effect of phonon extraction level separation on the performance of three-well resonant-phonon terahertz quantum-cascade lasers. <i>Semiconductor Science and Technology</i> , 2009, 24, 065012. | 2.0 | 4 |
| 41 | Emitter injection in terahertz quantum cascade lasers: Simulation of an open system. <i>Applied Physics Letters</i> , 2012, 100, . | 3.3 | 4 |
| 42 | Single-mode tapered terahertz quantum cascade lasers with lateral gratings. <i>Solid-State Electronics</i> , 2016, 122, 52-55. | 1.4 | 4 |
| 43 | Bias-Polarity-Dependent Photocurrent Spectra of Terahertz Stepped-Quantum-Well Photodetectors. <i>Physical Review Applied</i> , 2019, 12, . | 3.8 | 4 |
| 44 | Effect of injection coupling strength on terahertz quantum-cascade lasers. <i>Semiconductor Science and Technology</i> , 2011, 26, 095029. | 2.0 | 3 |
| 45 | Si-based InGaAs photodetectors on heterogeneous integrated substrate. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1. | 5.1 | 3 |
| 46 | Improved comb and dual-comb operation of terahertz quantum cascade lasers utilizing a symmetric thermal dissipation. <i>Optics Express</i> , 2021, 29, 29412. | 3.4 | 3 |
| 47 | Laser Frequency Combs: Graphene-Coupled Terahertz Semiconductor Lasers for Enhanced Passive Frequency Comb Operation (<i>Adv. Sci.</i> 20/2019). <i>Advanced Science</i> , 2019, 6, 1970120. | 11.2 | 2 |
| 48 | Frequency tuning behaviour of terahertz quantum cascade lasers revealed by a laser beating scheme. <i>Optics Express</i> , 2021, 29, 21269. | 3.4 | 2 |
| 49 | Beat note analysis and spectral modulation of terahertz quantum cascade lasers with radio frequency injection. <i>Chinese Optics Letters</i> , 2017, 15, 011404-11408. | 2.9 | 2 |
| 50 | Repetition frequency locking of a terahertz quantum cascade laser emitting at 4.2 THz. <i>Terahertz Science & Technology</i> , 2020, 13, 32-40. | 0.5 | 2 |
| 51 | Broadband Terahertz Quantum Cascade Laser Dual-Comb Sources under Off-Resonant Microwave Injection. <i>Advanced Photonics Research</i> , 2022, 3, . | 3.6 | 2 |
| 52 | How Important Is the Influence of Poisson Potential on the Band Structures of Terahertz Quantum-Cascade Lasers?. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 082701. | 1.5 | 1 |
| 53 | Multispectral Imaging: Multicolor Ray Imaging Using Multispectral Metamaterials (<i>Adv. Sci.</i> 7/2018). <i>Advanced Science</i> , 2018, 5, 1870044. | 11.2 | 1 |
| 54 | Semiconductor-based terahertz frequency combs. <i>Journal of Semiconductors</i> , 2019, 40, 050402. | 3.7 | 1 |

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|----|---|-----|-----------|
| 55 | Dual-Comb Laser Sources: Active Stabilization of Terahertz Semiconductor Dual-Comb Laser Sources Employing a Phase Locking Technique (Laser Photonics Rev. 15(4)/2021). Laser and Photonics Reviews, 2021, 15, 2170026. | 8.7 | 1 |
| 56 | Research progress of terahertz semiconductor optical frequency combs. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 189501. | 0.5 | 1 |
| 57 | Independent Control of Mode Selection and Power Extraction in Terahertz Semiconductor Lasers. ACS Photonics, 2022, 9, 1973-1983. | 6.6 | 1 |
| 58 | Observation of High Precision Frequency Tuning of Terahertz Quantum Cascade Lasers Employing a Laser Beating Scheme. , 2021, , . | | 0 |
| 59 | Locking of Terahertz Semiconductor Dual-Comb Laser Sources. , 2021, , . | | 0 |