Hua Li

List of Publications by Year in descending order

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59	969	430874 18	454955 30
papers	citations	h-index	g-index

60	60	60	929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Uncooled Midâ€Wavelength Infrared Photodetectors with Heterostructures of van der Waals on Epitaxial HgCdTe. Advanced Materials, 2022, 34, e2107772.	21.0	58
2	Real-time multimode dynamics of terahertz quantum cascade lasers via intracavity self-detection: observation of self mode-locked population pulsations. Optics Express, 2022, 30, 3215.	3.4	8
3	Independent Control of Mode Selection and Power Extraction in Terahertz Semiconductor Lasers. ACS Photonics, 2022, 9, 1973-1983.	6.6	1
4	Broadband Terahertz Quantum Cascade Laser Dualâ€Comb Sources under Offâ€Resonant Microwave Injection. Advanced Photonics Research, 2022, 3, .	3.6	2
5	Active Stabilization of Terahertz Semiconductor Dualâ€Comb Laser Sources Employing a Phase Locking Technique. Laser and Photonics Reviews, 2021, 15, 2000498.	8.7	18
6	Dualâ€Comb Laser Sources: Active Stabilization of Terahertz Semiconductor Dualâ€Comb Laser Sources Employing a Phase Locking Technique (Laser Photonics Rev. 15(4)/2021). Laser and Photonics Reviews, 2021, 15, 2170026.	8.7	1
7	Si-based InGaAs photodetectors on heterogeneous integrated substrate. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	3
8	Frequency tuning behaviour of terahertz quantum cascade lasers revealed by a laser beating scheme. Optics Express, 2021, 29, 21269.	3.4	2
9	Improved comb and dual-comb operation of terahertz quantum cascade lasers utilizing a symmetric thermal dissipation. Optics Express, 2021, 29, 29412.	3.4	3
10	Ultrafast Quantum-Well Photodetectors Operating at 10 Î¼m with a Flat Frequency Response up to 70 GHz at Room Temperature. ACS Photonics, 2021, 8, 464-471.	6.6	32
11	Observation of High Precision Frequency Tuning of Terahertz Quantum Cascade Lasers Employing a Laser Beating Scheme. , 2021, , .		0
12	Locking of Terahertz Semiconductor Dual-Comb Laser Sources. , 2021, , .		0
13	Phase change of Ge2Sb2Te5 under terahertz laser illumination. APL Materials, 2021, 9, .	5.1	8
14	Deep learning enhanced terahertz imaging of silkworm eggs development. IScience, 2021, 24, 103316.	4.1	9
15	Ultra-broadband THz/IR upconversion and photovoltaic response in semiconductor ratchet-based upconverter. Applied Physics Letters, 2021, 119, .	3.3	6
16	Toward Compact and Real-Time Terahertz Dual-Comb Spectroscopy Employing a Self-Detection Scheme. ACS Photonics, 2020, 7, 49-56.	6.6	48
17	Broadband Achromatic Subâ€Diffraction Focusing by an Amplitudeâ€Modulated Terahertz Metalens. Advanced Optical Materials, 2020, 8, 2000842.	7.3	43
18	Implantable, Degradable, Therapeutic Terahertz Metamaterial Devices. Small, 2020, 16, e2000294.	10.0	18

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19	Research progress of terahertz semiconductor optical frequency combs. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 189501.	0.5	1
20	Repetition frequency locking of a terahertz quantum cascade laser emitting at 4.2 THz. Terahertz Science & Technology, 2020, 13, 32-40.	0.5	2
21	Bias-Polarity-Dependent Photocurrent Spectra of Terahertz Stepped-Quantum-Well Photodetectors. Physical Review Applied, 2019, 12, .	3.8	4
22	Broadband THz to NIR up-converter for photon-type THz imaging. Nature Communications, 2019, 10, 3513.	12.8	28
23	On-Chip Dual-Comb Source Based on Terahertz Quantum Cascade Lasers Under Microwave Double Injection. Physical Review Applied, 2019, 12, .	3.8	19
24	Grapheneâ€Coupled Terahertz Semiconductor Lasers for Enhanced Passive Frequency Comb Operation. Advanced Science, 2019, 6, 1900460.	11.2	28
25	Semiconductor-based terahertz frequency combs. Journal of Semiconductors, 2019, 40, 050402.	3.7	1
26	Laser Frequency Combs: Grapheneâ€Coupled Terahertz Semiconductor Lasers for Enhanced Passive Frequency Comb Operation (Adv. Sci. 20/2019). Advanced Science, 2019, 6, 1970120.	11.2	2
27	Multicolor Tâ€Ray Imaging Using Multispectral Metamaterials. Advanced Science, 2018, 5, 1700982.	11.2	64
28	An Ultra-High-Sensitivity Superconducting Hot-Electron-Bolometer Heterodyne Receiver at 2.5 THz With an Integrated Low-Power-Consumption Quantum Cascade Laser. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 581-587.	3.1	5
29	Multispectral Imaging: Multicolor Tâ€Ray Imaging Using Multispectral Metamaterials (Adv. Sci. 7/2018). Advanced Science, 2018, 5, 1870044.	11.2	1
30	Terahertz Nanoimaging of Graphene. ACS Photonics, 2018, 5, 2645-2651.	6.6	78
31	Sub-wavelength tight-focusing of terahertz waves by polarization-independent high-numerical-aperture dielectric metalens. Optics Express, 2018, 26, 29817.	3.4	34
32	Sideband generation of coupled-cavity terahertz semiconductor lasers under active radio frequency modulation. Optics Express, 2018, 26, 32675.	3.4	7
33	Unambiguous real-time terahertz frequency metrology using dual 10â€‰â€‰GHz femtosecond frequency combs. Optica, 2018, 5, 1431.	9.3	9
34	Direct detection of a fast modulated terahertz light with a spectrally matched quantumâ€well photodetector. Electronics Letters, 2017, 53, 91-93.	1.0	7
35	6.2-GHz modulated terahertz light detection using fast terahertz quantum well photodetectors. Scientific Reports, 2017, 7, 3452.	3.3	44
36	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. Optica, 2017, 4, 168.	9.3	30

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37	Beat note analysis and spectral modulation of terahertz quantum cascade lasers with radio frequency injection. Chinese Optics Letters, 2017, 15, 011404-11408.	2.9	2
38	Single-mode tapered terahertz quantum cascade lasers with lateral gratings. Solid-State Electronics, 2016, 122, 52-55.	1.4	4
39	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. Optics Express, 2015, 23, 33270.	3.4	70
40	Coupled-cavity terahertz quantum cascade lasers for single mode operation. Applied Physics Letters, 2014, 104, .	3.3	30
41	How Important Is the Influence of Poisson Potential on the Band Structures of Terahertz Quantum-Cascade Lasers?. Japanese Journal of Applied Physics, 2013, 52, 082701.	1.5	1
42	Emitter injection in terahertz quantum cascade lasers: Simulation of an open system. Applied Physics Letters, 2012, 100, .	3.3	4
43	Wireless communication demonstration at 4.1â€…THz using quantum cascade laser and quantum well photodetector. Electronics Letters, 2011, 47, 1002.	1.0	35
44	Effect of injection coupling strength on terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2011, 26, 095029.	2.0	3
45	Broad gain bandwidth injectorless quantum-cascade lasers with a step well design. Applied Physics Letters, 2011, 98, 131113.	3.3	7
46	Simulation investigation on waveguide properties of terahertz wave through subwavelength semiconductor gap. Optik, 2010, 121, 604-608.	2.9	7
47	High Efficiency Injectorless Quantum Cascade Lasers Emitting at 8.8 mum With 2-W Peak Pulsed Power per Facet at Room Temperature. IEEE Photonics Technology Letters, 2010, 22, 1811-1813.	2.5	12
48	The effect of phonon extraction level separation on the performance of three-well resonant-phonon terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2009, 24, 065012.	2.0	4
49	Temperature performance of terahertz quantum-cascade lasers: experiment versus simulation. Journal Physics D: Applied Physics, 2009, 42, 025101.	2.8	10
50	Temperature profile modelling and experimental investigation of thermal resistance of terahertz quantum-cascade lasers. Journal Physics D: Applied Physics, 2009, 42, 205102.	2.8	12
51	Hollow MgO Nanotube Arrays by Using ZnO Nanorods as Templates. European Journal of Inorganic Chemistry, 2008, 2008, 2727-2732.	2.0	14
52	Temperature performance of resonant-phonon-assisted terahertz quantum-cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 282-284.	2.7	7
53	MgO nanobelts using a reactive and auto-removed ZnO nanobelt template. Solid State Communications, 2008, 147, 57-60.	1.9	4
54	Microstructural study of MBE-grown ZnO film on GaN/sapphire (0001) substrate. Open Physics, 2008, 6, .	1.7	8

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55	Effects of design parameters on the performance of terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2008, 23, 125040.	2.0	13
56	Comparison of resonant-phonon-assisted terahertz quantum-cascade lasers with one-well injector and three-well module. Journal of Applied Physics, 2008, 104, 103101.	2.5	11
57	Monte Carlo simulation of carrier transport and output characteristics of terahertz quantum cascade lasers. Journal of Applied Physics, 2008, 103, 103113.	2.5	32
58	Monte Carlo simulation of extraction barrier width effects on terahertz quantum cascade lasers. Applied Physics Letters, 2008, 92, 221105.	3.3	34
59	A study of terahertz quantum cascade lasers: Experiment versus simulation. Journal of Applied Physics, 2008, 104, 043101.	2.5	21