

Ya Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Uncooled, Fast, and High-sensitivity Terahertz Detection by Using MEMS Technologies. <i>Vacuum and Surface Science</i> , 2022, 65, 276-281.	0.1	0
2	Thermal and Optical Properties of Porous Nanomesh Structures for Sensitive Terahertz Bolometric Detection. <i>Sensors</i> , 2022, 22, 5109.	3.8	2
3	GaAs-based microelectromechanical terahertz bolometers fabricated on high-resistivity Si substrates using wafer bonding technique. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	11
4	Terahertz MEMS bolometers with enhanced thermal sensitivity by phononic crystal structures. , 2021, , .		0
5	Enhancing the thermal responsivity of microelectromechanical system beam resonators by preloading a critical buckling strain. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
6	Thermal tuning of mechanical nonlinearity in GaAs doubly-clamped MEMS beam resonators. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	7
7	1:1 internal mode coupling strength in GaAs doubly-clamped MEMS beam resonators with linear and nonlinear oscillations. <i>Applied Physics Express</i> , 2021, 14, 014001.	2.4	7
8	Effects of substrate phonon absorption on the resonance behavior of metal-insulator-metal metamaterial terahertz absorbers. <i>Applied Physics Express</i> , 2021, 14, 122007.	2.4	2
9	Deep-nanometer-scale terahertz spectroscopy using a transistor geometry with metal nanogap electrodes. <i>Light Advanced Manufacturing</i> , 2021, 2, 1.	5.1	2
10	Giant Enhancement in the Thermal Responsivity of Microelectromechanical Resonators by Internal Mode Coupling. <i>Physical Review Applied</i> , 2020, 14, .	3.8	16
11	Rapid Scan THz Imaging Using MEMS Bolometers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 675-684.	2.2	10
12	Effect of beam deflection on the thermal responsivity of GaAs-based doubly clamped microelectromechanical beam resonators. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	7
13	Ultrafast rattling motion of a single atom in a fullerene cage sensed by terahertz spectroscopy. <i>Applied Physics Express</i> , 2020, 13, 105002.	2.4	9
14	Control of absorption properties of ultra-thin metal-insulator-metal metamaterial terahertz absorbers. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 120904.	1.5	6
15	Enhanced thermal sensitivity of MEMS bolometers integrated with nanometer-scale hole array structures. <i>AIP Advances</i> , 2019, 9, .	1.3	13
16	Effects of Substrate Phonon Absorption on the Resonance Properties of Ultrathin Metamaterials in the Terahertz Range. , 2019, , .		0
17	Fast and sensitive bolometric terahertz detection at room temperature through thermomechanical transduction. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	44
18	Fast and sensitive bolometric terahertz detection at room temperature through thermomechanical transduction. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Novel bolometric THz detection by MEMS resonators. , 2018, , .		2
20	Strain tuning in MEMS beam resonators for terahertz bolometer applications. , 2018, , .		0
21	Active THz Imaging Using MEMS Resonator-Based Bolometer and Quantum Cascade Laser. , 2018, , .		1
22	Terahertz dynamics of electronâ€“vibron coupling in single molecules with tunable electrostatic potential. Nature Photonics, 2018, 12, 608-612.	31.4	41
23	Effect of buckling on the thermal response of microelectromechanical beam resonators. Applied Physics Letters, 2017, 111, .	3.3	22
24	Terahertz spectroscopy of a single atom in a fullerene cage. , 2017, , .		0
25	Room temperature, very sensitive thermometer using a doubly clamped microelectromechanical beam resonator for bolometer applications. Applied Physics Letters, 2016, 108, .	3.3	52
26	Room temperature, very sensitive bolometer using doubly clamped microelectromechanical oscillators. , 2016, , .		0
27	Room temperature, very sensitive bolometer using doubly clamped microelectromechanical resonators. , 2016, , .		1
28	Excited-state charging energies in quantum dots investigated by terahertz photocurrent spectroscopy. Physical Review B, 2016, 93, .	3.2	2
29	Terahertz spectroscopy of single Ce-doped C⁸² molecules using sub-nm-scale gap electrodes. , 2016, , .		0
30	Probing many-body quantum states in single InAs quantum dots: Terahertz and tunneling spectroscopy. Physical Review B, 2015, 91, .	3.2	4
31	Terahertz Intersublevel Transitions in Single Self-Assembled InAs Quantum Dots with Variable Electron Numbers. Nano Letters, 2015, 15, 1166-1170.	9.1	18
32	Gate-controlled terahertz single electron photovoltaic effect in self-assembled InAs quantum dots. Applied Physics Letters, 2015, 107, 103103.	3.3	4
33	Measurement of two dimensional resonance in MEMS resonators using stroboscopic differential interference contrast microscopy. Optics Express, 0, , .	3.4	0