

# Ya Zhang

## List of Publications by Year in descending order

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33  
papers

289  
citations

1040056

9  
h-index

888059

17  
g-index

33  
all docs

33  
docs citations

33  
times ranked

228  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature, very sensitive thermometer using a doubly clamped microelectromechanical beam resonator for bolometer applications. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	52
2	Fast and sensitive bolometric terahertz detection at room temperature through thermomechanical transduction. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	44
3	Terahertz dynamics of electron–vibron coupling in single molecules with tunable electrostatic potential. <i>Nature Photonics</i> , 2018, 12, 608-612.	31.4	41
4	Effect of buckling on the thermal response of microelectromechanical beam resonators. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	22
5	Terahertz Intersublevel Transitions in Single Self-Assembled InAs Quantum Dots with Variable Electron Numbers. <i>Nano Letters</i> , 2015, 15, 1166-1170.	9.1	18
6	Giant Enhancement in the Thermal Responsivity of Microelectromechanical Resonators by Internal Mode Coupling. <i>Physical Review Applied</i> , 2020, 14, .	3.8	16
7	Enhanced thermal sensitivity of MEMS bolometers integrated with nanometer-scale hole array structures. <i>AIP Advances</i> , 2019, 9, .	1.3	13
8	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
9	Rapid Scan THz Imaging Using MEMS Bolometers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 675-684.	2.2	10
10	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
11	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
12	Thermal tuning of mechanical nonlinearity in GaAs doubly-clamped MEMS beam resonators. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	7
13	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
14	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
15	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
16	Probing many-body quantum states in single InAs quantum dots: Terahertz and tunneling spectroscopy. <i>Physical Review B</i> , 2015, 91, .	3.2	4
17	Gate-controlled terahertz single electron photovoltaic effect in self-assembled InAs quantum dots. <i>Applied Physics Letters</i> , 2015, 107, 103103.	3.3	4
18	Excited-state charging energies in quantum dots investigated by terahertz photocurrent spectroscopy. <i>Physical Review B</i> , 2016, 93, .	3.2	2

#	ARTICLE	IF	CITATIONS
19	Novel bolometric THz detection by MEMS resonators. , 2018, , .		2
20	Effects of substrate phonon absorption on the resonance behavior of metal-insulator-metal metamaterial terahertz absorbers. Applied Physics Express, 2021, 14, 122007.	2.4	2
21	Deep-nanometer-scale terahertz spectroscopy using a transistor geometry with metal nanogap electrodes. Light Advanced Manufacturing, 2021, 2, 1.	5.1	2
22	Thermal and Optical Properties of Porous Nanomesh Structures for Sensitive Terahertz Bolometric Detection. Sensors, 2022, 22, 5109.	3.8	2
23	Room temperature, very sensitive bolometer using doubly clamped microelectromechanical resonators. , 2016, , .		1
24	Active THz Imaging Using MEMS Resonator-Based Bolometer and Quantum Cascade Laser. , 2018, , .		1
25	Room temperature, very sensitive bolometer using doubly clamped microelectromechanical oscillators. , 2016, , .		0
26	Terahertz spectroscopy of single Ce-doped C <sub>82</sub> molecules using sub-nm-scale gap electrodes. , 2016, , .		0
27	Terahertz spectroscopy of a single atom in a fullerene cage. , 2017, , .		0
28	Strain tuning in MEMS beam resonators for terahertz bolometer applications. , 2018, , .		0
29	Effects of Substrate Phonon Absorption on the Resonance Properties of Ultrathin Metamaterials in the Terahertz Range. , 2019, , .		0
30	Fast and sensitive bolometric terahertz detection at room temperature through thermomechanical transduction. , 2019, , .		0
31	Terahertz MEMS bolometers with enhanced thermal sensitivity by phononic crystal structures. , 2021, , .		0
32	Uncooled, Fast, and High-sensitivity Terahertz Detection by Using MEMS Technologies. Vacuum and Surface Science, 2022, 65, 276-281.	0.1	0
33	Measurement of two dimensional resonance in MEMS resonators using stroboscopic differential interference contrast microscopy. Optics Express, 0, , .	3.4	0