Fangjing Hu

List of Publications by Year
in descending order

35 papers	388 citations	840119 11 h-index	839053 18 g-index
35 all docs	35 docs citations	35 times ranked	379 citing authors

#	Article	IF	Citations
1	On-chip integration of bulk micromachined three-dimensional Si/C/CNT@TiC micro-supercapacitors for alternating current line filtering. RSC Advances, 2022, 12, 2048-2056.	1.7	3
2	A Flexible and Ultraâ€Wideband Terahertz Wave Absorber Based on Pyramidâ€Shaped Carbon Nanotube Array via Femtosecondâ€Laser Microprocessing and Twoâ€Step Transfer Technique. Advanced Materials Interfaces, 2022, 9, .	1.9	5
3	A carbon nanotube@silicon-based three-dimensional porous photo-supercapacitor for self-powered UV detection. Materials Today Energy, 2022, 28, 101054.	2.5	1
4	On the Air Buoyancy Effect in MEMS-Based Gravity Sensors for High Resolution Gravity Measurements. IEEE Sensors Journal, 2021, 21, 22480-22488.	2.4	8
5	Broadband Characterisation of Interior Materials and Surface Scattering using Terahertz Time-Domain Spectroscopy. , 2021, , .		2
6	3D-printed Reflective Dielectric Coding Metamaterials for Terahertz Waves Manipulation. , 2021, , .		0
7	Low Temperature Hydrophilic SiC Wafer Level Direct Bonding for Ultrahigh-Voltage Device Applications. Micromachines, 2021, 12, 1575.	1.4	2
8	Threeâ€dimensional printing technologies for terahertz applications: A review. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e21983.	0.8	39
9	A low-temperature-operated direct fabrication method for all-solid-state flexible micro-supercapacitors. Journal of Power Sources, 2020, 448, 227415.	4.0	9
10	Measurement of Tidal Tilt by a Micromechanical Inertial Sensor Employing Quasi-Zero- Stiffness Mechanism. Journal of Microelectromechanical Systems, 2020, 29, 1322-1331.	1.7	21
11	Silicon-Based 3D All-Solid-State Micro-Supercapacitor with Superior Performance. ACS Applied Materials & Interfaces, 2020, 12, 43864-43875.	4.0	48
12	Temperature Gradient Method for Alleviating Bonding-Induced Warpage in a High-Precision Capacitive MEMS Accelerometer. Sensors, 2020, 20, 1186.	2.1	7
13	A flexible and ultra-broadband terahertz wave absorber based on grapheneâ€“vertically aligned carbon nanotube hybrids. Journal of Materials Chemistry C, 2020, 8, 7244-7252.	2.7	16
14	Wafer-scale vertically aligned carbon nanotubes for broadband terahertz wave absorption. Carbon, 2019, 154, 503-509.	5.4	20
15	In-situ Functionalization of Metal Electrodes for Advanced Asymmetric Supercapacitors. Frontiers in Chemistry, 2019, 7, 512.	1.8	12
16	Flexible Ultra-Wideband Terahertz Absorber Based on Vertically Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 43671-43680.	4.0	39
17	A method for alleviating the effect of pinhole defects in inter-metal dielectric films. Journal of Micromechanics and Microengineering, 2019, 29, 015012.	1.5	2
18	An Ultra-Wideband THz/IR Metamaterial Absorber Based on Doped Silicon. Materials, 2018, 11, 2590.	1.3	19

#	Article	IF	Citations
19	Scale Factor Calibration for a Rotating Accelerometer Gravity Gradiometer. Sensors, 2018, 18, 4386.	2.1	3
20	Digital Microfluidics for Terahertz Digital and Programmable Metamaterials: A Proof-of-Concept Study. , 2018, , .		0
21	A precise spacing-control method in MEMS packaging for capacitive accelerometer applications. Journal of Micromechanics and Microengineering, 2018, 28, 125016.	1.5	15
22	Predicting Atmospheric Attenuation Under Pristine Conditions Between 0.1 and 100 THz. IEEE Access, 2016, 4, 9377-9399.	2.6	32
23	Advances in Front-end Enabling Technologies for Thermal Infrared â€˜THz Torchâ€™ Wireless Communications. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 881-893.	1.2	7
24	Banknote characterization using a thermal infrared â€˜THz Torchâ€™ spectrometer. , 2015, , .		4
25	Modelling Miniature Incandescent Light Bulbs for Thermal Infrared â€˜THz Torchâ€™ Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 350-367.	1.2	11
26	Systems Analysis for Thermal Infrared â€˜THz Torchâ€™ Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 474-495.	1.2	11
27	Link budget analysis for secure thermal infrared communications using engineered blackbody radiation. , 2014, , .		2
28	Secure thermal infrared communications using engineered blackbody radiation. Scientific Reports, 2014, 4, 5245.	1.6	15
29	Emerging Thermal Infrared â€˜THz Torchâ€™ Technology for Low-Cost Security and Defence Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 239-275.	0.2	7
30	Improved ‘THz Torch’ technology for short-range wireless data transfer. , 2013, , .		8
31	Technology demonstrators for low-cost terahertz engineering. , 2013, , .		5
32	Ultra-low cost THz short-range wireless link. , 2011, , .		12
33	Parallelization of multilevel fast multipole algorithm with open MPI for scattering by large scale targets. , 2009, , .		0
34	Comparison of iteration solution methods with multilevel fast multipole algorithm for solving large-scale scattering problems. , 2009, , .		2
35	A low-temperature operated in situ synthesis of TiC-modified carbon nanotubes with enhanced thermal stability and electrochemical properties. Nanoscale Advances, 0, , .	2.2	1