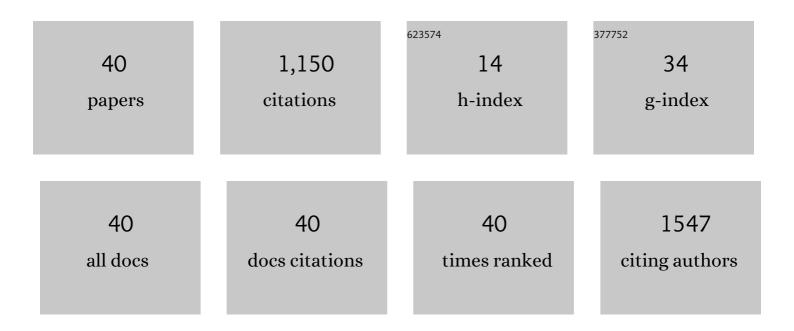


List of Publications by Year in descending order

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Tipli

#	Article	IF	CITATIONS
1	Detection of TNT in sulfuric acid solution by SiNWs-FET based sensor. Microsystem Technologies, 2022, 28, 1525-1534.	1.2	4
2	Micromachined Thermocouple for Rapid Detection of Ultrahigh Heat Flux at High Temperature. IEEE Transactions on Industrial Electronics, 2022, 69, 2099-2106.	5.2	9
3	Rapid detection of airborne protein from <i>Mycobacterium tuberculosis</i> using a biosensor detection system. Analyst, The, 2022, 147, 614-624.	1.7	9
4	Portable immunosensor directly and rapidly detects Mycobacterium tuberculosis in sputum. Analytical Methods, 2022, 14, 438-448.	1.3	2
5	Thermal Conductivity Gas Sensor with Enhanced Flow-Rate Independence. Sensors, 2022, 22, 1308.	2.1	7
6	A self-contained and integrated microfluidic nano-detection system for the biosensing and analysis of molecular interactions. Lab on A Chip, 2022, 22, 1702-1713.	3.1	7
7	MEMS Thermocouple Sensor Based on 4H-Silicon-Carbide-On-Insulator (4H-SiCOI). IEEE Sensors Journal, 2022, 22, 13930-13936.	2.4	4
8	A controllable fabrication improved silicon nanowire array sensor on (111) SOI for accurate bio-analysis application. Nano Research, 2022, 15, 7468-7475.	5.8	7
9	A Theoretical and Simulation Analysis of the Sensitivity of SiNWs-FET Sensors. Biosensors, 2021, 11, 121.	2.3	3
10	Efficient Infrared-Thermal-Electric Conversion with Textured Dielectric Film. , 2021, , .		0
11	Simultaneously controlling heat conduction and infrared absorption with a textured dielectric film to enhance the performance of thermopiles. Microsystems and Nanoengineering, 2021, 7, 36.	3.4	6
12	Surface Charge Density Inside a Silicon Nitride Nanopore. Langmuir, 2021, 37, 10521-10528.	1.6	15
13	Rapid and Sensitive Detection of <i>Mycobacterium tuberculosis</i> by an Enhanced Nanobiosensor. ACS Sensors, 2021, 6, 3367-3376.	4.0	26
14	Influence of thickness of SiO ₂ layer on the performance of SINW sensors. Micro and Nano Letters, 2021, 16, 64-70.	0.6	1
15	Decoding the Double/Multiple Hysteresis Loops in Antiferroelectric Materials. ACS Applied Materials & Interfaces, 2021, 13, 60241-60249.	4.0	10
16	Novel fabrication for vertically stacked inverted triangular and diamond-shaped silicon nanowires on (1 0 0) single crystal silicon wafer. Journal of Micromechanics and Microengineering, 2020, 30, 015003.	1.5	3
17	Micromachined Thermopile Based High Heat Flux Sensor. Journal of Microelectromechanical Systems, 2020, 29, 36-42.	1.7	16
18	High Response Photodetection by Applying the Optimized Photoreceptor Protein Modification on Graphene Based Field Effect Transistors, Frontiers in Materials, 2020, 7, .	1.2	3

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19	Gold nanoparticle modified silicon nanowire array based sensor for low-cost, high sensitivity and selectivity detection of mercury ions. Materials Research Express, 2020, 7, 035017.	0.8	8
20	Trace Level Analysis of Nerve Agent Simulant DMMP With Silicon Nanowire FET Sensor. IEEE Sensors Journal, 2020, 20, 12096-12101.	2.4	9
21	Improved Thermopile on Pyramidally-Textured Dielectric Film. IEEE Electron Device Letters, 2020, , 1-1.	2.2	9
22	Au-Decorated ZnFe ₂ O ₄ Yolk–Shell Spheres for Trace Sensing of Chlorobenzene. ACS Applied Materials & Interfaces, 2020, 12, 16792-16804.	4.0	38
23	Performance Enhanced Thermopile With Rough Dielectric Film Black. IEEE Electron Device Letters, 2020, 41, 593-596.	2.2	15
24	A robust bioderived wavelength-specific photosensor based on BLUF proteins. Sensors and Actuators B: Chemical, 2020, 310, 127838.	4.0	4
25	Highly sensitive and selective detection of human-derived volatile organic compounds based on odorant binding proteins functionalized silicon nanowire array. Sensors and Actuators B: Chemical, 2020, 309, 127762.	4.0	24
26	MEMS thermal gas flow sensor with self-test function. Journal of Micromechanics and Microengineering, 2019, 29, 125009.	1.5	13
27	Sub-ppb and ultra selective nitrogen dioxide sensor based on sulfur doped graphene. Sensors and Actuators B: Chemical, 2018, 255, 2258-2263.	4.0	30
28	Wafer-level and highly controllable fabricated silicon nanowire transistor arrays on (111) silicon-on-insulator (SOI) wafers for highly sensitive detection in liquid and gaseous environments. Nano Research, 2018, 11, 1520-1529.	5.8	32
29	Design, fabrication, and characterization of a high-performance CMOS-compatible thermopile infrared detector with self-test function. Journal of Micromechanics and Microengineering, 2018, 28, 125017.	1.5	18
30	Amino Monolayer Modified Nanowire Array for Trinitrotoluene Detection. Sensors and Materials, 2018, 30, 2669.	0.3	3
31	Multiplexed detection of lung cancer biomarkers in patients serum with CMOS-compatible silicon nanowire arrays. Biosensors and Bioelectronics, 2017, 91, 482-488.	5.3	81
32	MEMS-based thermoelectric infrared sensors: A review. Frontiers of Mechanical Engineering, 2017, 12, 557-566.	2.5	88
33	Wafer-level site-controlled growth of silicon nanowires by Cu pattern dewetting. Nano Research, 2015, 8, 2646-2653.	5.8	4
34	Direct ultrasensitive electrical detection of prostate cancer biomarkers with CMOS-compatible n- and p-type silicon nanowire sensor arrays. Nanoscale, 2014, 6, 13036-13042.	2.8	54
35	CMOS ompatible Silicon Nanowire Fieldâ€Effect Transistors for Ultrasensitive and Labelâ€Free MicroRNAs Sensing. Small, 2014, 10, 2022-2028.	5.2	99
36	Topâ€Down Fabricated Siliconâ€Nanowireâ€Based Fieldâ€Effect Transistor Device on a (111) Silicon Wafer. Small, 2013, 9, 525-530.	5.2	29

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#	Article	IF	CITATIONS
37	Enhanced Sensing of Nucleic Acids with Silicon Nanowire Field Effect Transistor Biosensors. Nano Letters, 2012, 12, 5262-5268.	4.5	189
38	Robust Array-Composite Micromachined Thermopile IR Detector by CMOS Technology. IEEE Electron Device Letters, 2011, 32, 1761-1763.	2.2	14
39	Silicon-Nanowire-Based CMOS-Compatible Field-Effect Transistor Nanosensors for Ultrasensitive Electrical Detection of Nucleic Acids. Nano Letters, 2011, 11, 3974-3978.	4.5	257
40	Flow-insensitive micro-thermal conductivity detector with semi-diffusion gas channel. Journal of Micromechanics and Microengineering, 0, , .	1.5	0