Kuen-Lin Chen

List of Publications by Year
in descending order

34 papers	297 citations	759233 12 h-index	940533 16 g-index
34 all docs	34 docs citations	34 times ranked	331 citing authors

#	Article	IF	Citations
1	Revealing a Highly Sensitive Sub-ppb-Level NO₂ Gas-Sensing Capability of Novel Architecture 2D/0D MoS₂/SnS Heterostructures with DFT Interpretation. ACS Applied Materials & Interfaces, 2022, 14, 32279-32288.	8.0	21
2	Improvement of multisource localization of magnetic particles in an animal. Scientific Reports, 2021, 11, 9628.	3.3	1
3	A magneto-optical biochip for rapid assay based on the Cottonâ€“Mouton effect of Î³-Fe2O3@Au core/shell nanoparticles. Journal of Nanobiotechnology, 2021, 19, 301.	9.1	13
4	Surface modification of ZnO nanopillars to enhance the sensitivity towards methane: The studies of experimental and first-principle simulation. Applied Surface Science, 2021, 568, 150817.	6.1	22
5	Improving the SERS signals of biomolecules using a stacked biochip containing Fe2O3/Au nanoparticles and a DC magnetic field. Scientific Reports, 2019, 9, 9566.	3.3	13
6	Magneto-Optical Characteristics of Streptavidin-Coated Fe3O4@Au Core-Shell Nanoparticles for Potential Applications on Biomedical Assays. Scientific Reports, 2019, 9, 16466.	3.3	15
7	Magnetic Nanoparticle Images and Assaying Biomarkers via the Magnetic Relaxation of Biofunctionalized Nanoparticles Associated With Biotargets. IEEE Sensors Journal, 2019, 19, 9004-9009.	4.7	0
8	A sensitive platform for in vitro immunoassay based on biofunctionalized magnetic nanoparticles and magneto-optical Faraday effect. Sensors and Actuators B: Chemical, 2018, 258, 947-951.	7.8	11
9	Improving the sensitive and selective of trace amount ozone sensor on Indium-Gallium-Zinc Oxide thin film by ultraviolet irradiation. Sensors and Actuators B: Chemical, 2018, 273, 1713-1718.	7.8	22
10	Analysis of the Sensing Properties of a Highly Stable and Reproducible Ozone Gas Sensor Based on Amorphous In-Ga-Zn-O Thin Film. Sensors, 2018, 18, 163.	3.8	17
11	Study of Î³-Fe<inf>2</inf>O<inf>3</inf>/Au core/shell nanoparticles as the contrast agent for high-T<inf>c</inf> SQUID-based low field nuclear magnetic resonance. , 2016, , .		2
12	The properties of metamaterials based on gold thin film and nanoparticles. , 2016, , .		0
13	Influence of magnetoplasmonic Î³-Fe2O3/Au core/shell nanoparticles on low-field nuclear magnetic resonance. Scientific Reports, 2016, 6, 35477.	3.3	15
14	Ultraviolet photodetector and gas sensor based on amorphous In-Ga-Zn-O film. Thin Solid Films, 2016, 618, 73-76.	1.8	14
15	Assaying Biomarkers via Real-Time Measurements of the Effective Relaxation Time of Biofunctionalized Magnetic Nanoparticles Associated with Biotargets. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	1
16	Amorphous indium gallium zinc oxide thin film-based ozone sensors. , 2015, , .		1
17	Gas sensing properties of indiumâ€“galliumâ€“zincâ€“oxide gas sensors in different light intensity. Analytical Chemistry Research, 2015, 4, 8-12.	2.0	34
18	Low-Noise Serial High- T_{c} $hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{y}$ Superconducting Quantum Interference Devices Based on Bicrystal Junctions. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.7	2

#	Article	IF	Citations
19	Magnetic Clustering Effect during the Association of Biofunctionalized Magnetic Nanoparticles with Biomarkers. PLoS ONE, 2015, 10, e0135290.	2.5	10
20	Using Bio-Functionalized Magnetic Nanoparticles and Dynamic Nuclear Magnetic Resonance to Characterize the Time-Dependent Spin-Spin Relaxation Time for Sensitive Bio-Detection. Sensors, 2014, 14, 21409-21417.	3.8	14
21	A signal input coil made of superconducting thin film for improved signal-to-noise ratio in a high-TcSQUID-based ultra-low field nuclear magnetic resonance system. Superconductor Science and Technology, 2013, 26, 115008.	3.5	1
22	Spin-spin relaxation of protons in ferrofluids characterized with a high-Tc superconducting quantum interference device-detected magnetometer in microtesla fields. Applied Physics Letters, 2012, 100, 232405.	3.3	6
23	Fabrication and Properties of High-$T_{m c}$ YBCO Josephson Junction and SQUID With Variable Thickness Bridges by Focused Ion Beam. IEEE Transactions on Applied Superconductivity, 2011, 21, 375-378.	1.7	12
24	The stability of source localization in a whole-head magnetoencephalography system demonstrated by auditory evoked field measurements. Journal of Applied Physics, 2011, 110, 074702.	2.5	3
25	Characterization of dual high transition temperature superconducting quantum interference device first-order planar gradiometers on a chip. Journal of Applied Physics, 2010, 108, 064503.	2.5	2
26	Tunable high transition temperature superconducting quantum interference device magnetometer with gate-voltage-controlled bicrystal junctions. Applied Physics Letters, 2009, 95, 033504.	3.3	0
27	High-Tc superconducting quantum interference devices: Status and perspectives. Journal of Applied Physics, 2008, 104, 011101.	2.5	7
28	Integrated high-TC radio frequency superconducting quantum interference device using SrTiO3 bicrystal substrate resonators. Applied Physics Letters, 2007, 90, 153504.	3.3	8
29	Superconducting-quantum-interference-device array magnetometers with directly coupled pickup loop and serial flux dams. Journal of Applied Physics, 2006, 100, 064510.	2.5	7
30	Scanning high-TcSQUID imaging system for magnetocardiography. Superconductor Science and Technology, 2006, 19, S297-S302.	3.5	6
31	Multifunctional design of high-transition-temperature directly coupled superconducting-quantum-interference-device magnetometers on a chip. Applied Physics Letters, 2006, 89, 192501.	3.3	3
32	High-<tex>T_c</tex>Electronic Planar Gradiometer Constructed From Magnetometers on a Chip. IEEE Transactions on Applied Superconductivity, 2005, 15, 805-808.	1.7	0
33	Off-axis pulsed laser deposited YBa2Cu3O7âˆ’Î´ thin films for device applications. Physica C: Superconductivity and its Applications, 2002, 372-376, 1078-1081.	1.2	11
34	Effects of modulation schemes on the performance of directly coupled high-T/sub c/ dc SQUID magnetometers. IEEE Transactions on Applied Superconductivity, 2001, 11, 1110-1113.	1.7	3