Tianxun Gong

List of Publications by Year
in descending order

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Version: 2024-02-01

42	1,358	331670	345221
papers	citations	21 h-index	36 g-index

42	42	42	2160
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magneto-optical fiber sensor based on bandgap effect of photonic crystal fiber infiltrated with magnetic fluid. Applied Physics Letters, 2012, 101, .	3.3	137
2	A Temperature-Insensitive Twist Sensor by Using Low-Birefringence Photonic-Crystal-Fiber-Based Sagnac Interferometer. IEEE Photonics Technology Letters, 2011, 23, 920-922.	2.5	107
3	Near-infrared photodetector based on few-layer MoS2 with sensitivity enhanced by localized surface plasmon resonance. Applied Surface Science, 2019, 483, 1037-1043.	6.1	80
4	Highly responsive flexible strain sensor using polystyrene nanoparticle doped reduced graphene oxide for human health monitoring. Carbon, 2018, 140, 286-295.	10.3	76
5	Highly sensitive SERS detection and quantification of sialic acid on single cell using photonic-crystal fiber with gold nanoparticles. Biosensors and Bioelectronics, 2015, 64, 227-233.	10.1	71
6	Sensitive SERS glucose sensing in biological media using alkyne functionalized boronic acid on planar substrates. Biosensors and Bioelectronics, 2014, 56, 186-191.	10.1	69
7	Side-channel photonic crystal fiber for surface enhanced Raman scattering sensing. Sensors and Actuators B: Chemical, 2016, 223, 195-201.	7.8	58
8	Optical Interference-Free Surface-Enhanced Raman Scattering CO-Nanotags for Logical Multiplex Detection of Vascular Disease-Related Biomarkers. ACS Nano, 2017, 11, 3365-3375.	14.6	57
9	Labelâ€free diagnosis for colorectal cancer through coffee ringâ€assisted surfaceâ€enhanced Raman spectroscopy on blood serum. Journal of Biophotonics, 2020, 13, e201960176.	2.3	52
10	Optoplasmonic Hybrid Materials for Trace Detection of Methamphetamine in Biological Fluids through SERS. ACS Applied Materials & Interfaces, 2020, 12, 24192-24200.	8.0	43
11	Geometrically encoded SERS nanobarcodes for the logical detection of nasopharyngeal carcinoma-related progression biomarkers. Nature Communications, 2021, 12, 3430.	12.8	37
12	Sensitive surface enhanced Raman scattering multiplexed detection of matrix metalloproteinase 2 and 7 cancer markers. Biomedical Optics Express, 2015, 6, 2076.	2.9	35
13	Single-Layer Triboelectric Nanogenerators Based on Ion-Doped Natural Nanofibrils. ACS Applied Materials & Interfaces, 2020, 12, 42859-42867.	8.0	35
14	Ultra-sensitive and plasmon-tunable graphene photodetectors for micro-spectrometry. Nanoscale, 2018, 10, 20013-20019.	5.6	34
15	Ultra-sensitive near-infrared graphene photodetectors with nanopillar antennas. Nanoscale, 2017, 9, 17459-17464.	5.6	33
16	Photoinduced whispering gallery mode microcavity resonator in a chalcogenide microfiber. Optics Letters, 2011, 36, 4761.	3.3	32
17	Metal Carbonyls for the Biointerference-Free Ratiometric Surface-Enhanced Raman Spectroscopy-Based Assay for Cell-Free Circulating DNA of Epstein-Barr Virus in Blood. Analytical Chemistry, 2018, 90, 7139-7147.	6.5	29
18	GaSe/MoS‹sub›2‹/sub› Heterostructure with Ohmicâ€Contact Electrodes for Fast, Broadband Photoresponse, and Selfâ€Đriven Photodetectors. Advanced Materials Interfaces, 2020, 7, 1901848.	3.7	28

#	Article	IF	Citations
19	Pluronic Triblock Copolymer Encapsulated Gold Nanorods as Biocompatible Localized Plasmon Resonance-Enhanced Scattering Probes for Dark-Field Imaging of Cancer Cells. Plasmonics, 2012, 7, 595-601.	3.4	23
20	Ultra-sensitive graphene photodetector with plasmonic structure. Applied Physics Letters, 2016, 109, .	3.3	22
21	Magnetic assembled 3D SERS substrate for sensitive detection of pesticide residue in soil. Nanotechnology, 2020, 31, 205501.	2.6	22
22	Development of SERS tags for human diseases screening and detection. Coordination Chemistry Reviews, 2022, 470, 214711.	18.8	22
23	Engineering Bioconjugated Gold Nanospheres and Gold Nanorods as Label-Free Plasmon Scattering Probes for Ultrasensitive Multiplex Dark-Field Imaging of Cancer Cells. Journal of Biomedical Nanotechnology, 2013, 9, 985-991.	1.1	21
24	A Rapid and Labelâ€free SERS Detection Method for Biomarkers in Clinical Biofluids. Small, 2014, 10, 5030-5034.	10.0	21
25	In vitro toxicity and bioimaging studies of gold nanorods formulations coated with biofunctional thiol-PEG molecules and Pluronic block copolymers. Beilstein Journal of Nanotechnology, 2014, 5, 546-553.	2.8	21
26	Rapid SERS monitoring of lipidâ€peroxidationâ€derived protein modifications in cells using photonic crystal fiber sensor. Journal of Biophotonics, 2016, 9, 32-37.	2.3	21
27	Ultra-sensitive self-powered photodetector based on vertical MoTe₂/MoS₂ heterostructure. Applied Physics Express, 2020, 13, 015007.	2.4	20
28	Transition from nonvolatile bipolar memory switching to bidirectional threshold switching in layered MoO₃ nanobelts. Journal of Materials Chemistry C, 2019, 7, 12160-12169.	5.5	19
29	Broadband photodetector based on vertically stage-liked MoS2/Si heterostructure with ultra-high sensitivity and fast response speed. Scripta Materialia, 2020, 176, 1-6.	5.2	16
30	Hybrid strategy of graphene/carbon nanotube hierarchical networks for highly sensitive, flexible wearable strain sensors. Scientific Reports, 2021, 11, 21006.	3.3	16
31	Simulation of tuning graphene plasmonic behaviors by ferroelectric domains for self-driven infrared photodetector applications. Nanoscale, 2019, 11, 20868-20875.	5.6	15
32	Morphologically modulated laser-patterned reduced graphene oxide strain sensors for human fatigue recognition. Smart Materials and Structures, 2020, 29, 015009.	3.5	13
33	Tandem Quantification of Multiple Carbohydrates in Saliva Using Surface-Enhanced Raman Spectroscopy. ACS Sensors, 2021, 6, 1240-1247.	7.8	12
34	Graphene-based polarization-sensitive longwave infrared photodetector. Nanotechnology, 2019, 30, 435205.	2.6	10
35	Engineered optoplasmonic core-satellite microspheres for SERS determination of methamphetamine derivative and its precursors. Sensors and Actuators B: Chemical, 2022, 358, 131437.	7.8	10
36	Synthesis of PEGylated gold nanorods (Au NRs) as absorption nanoprobes for near-infrared optical imaging. RSC Advances, 2013, 3, 12280.	3.6	9

#	Article	IF	Citations
37	An Artificial Electrical-Chemical Mixed Synapse Based on Ion-Gated MoS₂ Nanosheets for Real-Time Facilitation Index Tuning. ACS Applied Materials & Interfaces, 2021, 13, 15755-15760.	8.0	9
38	Development of optimized nanogap plasmonic substrate for improved SERS enhancement. AIP Advances, 2017, 7, .	1.3	8
39	Highly sensitive and broadband photodetectors based on WSe2/MoS2 heterostructures with van der Waals contact electrodes. Applied Physics Letters, 2022, 121, .	3.3	8
40	Selfâ€Driven Photodetectors: GaSe/MoS₂ Heterostructure with Ohmicâ€Contact Electrodes for Fast, Broadband Photoresponse, and Selfâ€Driven Photodetectors (Adv. Mater. Interfaces 9/2020). Advanced Materials Interfaces, 2020, 7, 2070050.	3.7	4
41	An anti-scratch flexible SERS substrate for pesticide residue detection on the surface of fruits and vegetables. Nanotechnology, 2022, 33, 405501.	2.6	3
42	Optimized sandwiched surface plasmon resonance enhanced biosensor for multiplex biomarker detection. , 2012, , .		0