

# Tianxun Gong

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,358  
citations

331670

21  
h-index

345221

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered optoplasmonic core-satellite microspheres for SERS determination of methamphetamine derivative and its precursors. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131437.	7.8	10
2	Highly sensitive and broadband photodetectors based on WSe <sub>2</sub> /MoS <sub>2</sub> heterostructures with van der Waals contact electrodes. <i>Applied Physics Letters</i> , 2022, 121, .	3.3	8
3	An anti-scratch flexible SERS substrate for pesticide residue detection on the surface of fruits and vegetables. <i>Nanotechnology</i> , 2022, 33, 405501.	2.6	3
4	Development of SERS tags for human diseases screening and detection. <i>Coordination Chemistry Reviews</i> , 2022, 470, 214711.	18.8	22
5	Tandem Quantification of Multiple Carbohydrates in Saliva Using Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2021, 6, 1240-1247.	7.8	12
6	An Artificial Electrical-Chemical Mixed Synapse Based on Ion-Gated MoS <sub>2</sub> Nanosheets for Real-Time Facilitation Index Tuning. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15755-15760.	8.0	9
7	Geometrically encoded SERS nanobarcodes for the logical detection of nasopharyngeal carcinoma-related progression biomarkers. <i>Nature Communications</i> , 2021, 12, 3430.	12.8	37
8	Hybrid strategy of graphene/carbon nanotube hierarchical networks for highly sensitive, flexible wearable strain sensors. <i>Scientific Reports</i> , 2021, 11, 21006.	3.3	16
9	Broadband photodetector based on vertically stage-liked MoS <sub>2</sub> /Si heterostructure with ultra-high sensitivity and fast response speed. <i>Scripta Materialia</i> , 2020, 176, 1-6.	5.2	16
10	Morphologically modulated laser-patterned reduced graphene oxide strain sensors for human fatigue recognition. <i>Smart Materials and Structures</i> , 2020, 29, 015009.	3.5	13
11	Label-free diagnosis for colorectal cancer through coffee ring-assisted surface-enhanced Raman spectroscopy on blood serum. <i>Journal of Biophotonics</i> , 2020, 13, e201960176.	2.3	52
12	Ultra-sensitive self-powered photodetector based on vertical MoTe <sub>2</sub> /MoS <sub>2</sub> heterostructure. <i>Applied Physics Express</i> , 2020, 13, 015007.	2.4	20
13	Single-Layer Triboelectric Nanogenerators Based on Ion-Doped Natural Nanofibrils. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42859-42867.	8.0	35
14	Magnetic assembled 3D SERS substrate for sensitive detection of pesticide residue in soil. <i>Nanotechnology</i> , 2020, 31, 205501.	2.6	22
15	GaSe/MoS <sub>2</sub> Heterostructure with Ohmic Contact Electrodes for Fast, Broadband Photoresponse, and Self-Driven Photodetectors. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901848.	3.7	28
16	Optoplasmonic Hybrid Materials for Trace Detection of Methamphetamine in Biological Fluids through SERS. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24192-24200.	8.0	43
17	Self-Driven Photodetectors: GaSe/MoS <sub>2</sub> Heterostructure with Ohmic Contact Electrodes for Fast, Broadband Photoresponse, and Self-Driven Photodetectors ( <i>Adv. Mater. Interfaces</i> 9/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070050.	3.7	4
18	Graphene-based polarization-sensitive longwave infrared photodetector. <i>Nanotechnology</i> , 2019, 30, 435205.	2.6	10

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19	Transition from nonvolatile bipolar memory switching to bidirectional threshold switching in layered MoO <sub>3</sub> nanobelts. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12160-12169.	5.5	19
20	Near-infrared photodetector based on few-layer MoS <sub>2</sub> with sensitivity enhanced by localized surface plasmon resonance. <i>Applied Surface Science</i> , 2019, 483, 1037-1043.	6.1	80
21	Simulation of tuning graphene plasmonic behaviors by ferroelectric domains for self-driven infrared photodetector applications. <i>Nanoscale</i> , 2019, 11, 20868-20875.	5.6	15
22	Ultra-sensitive and plasmon-tunable graphene photodetectors for micro-spectrometry. <i>Nanoscale</i> , 2018, 10, 20013-20019.	5.6	34
23	Highly responsive flexible strain sensor using polystyrene nanoparticle doped reduced graphene oxide for human health monitoring. <i>Carbon</i> , 2018, 140, 286-295.	10.3	76
24	Metal Carbonyls for the Biointerference-Free Ratiometric Surface-Enhanced Raman Spectroscopy-Based Assay for Cell-Free Circulating DNA of Epstein-Barr Virus in Blood. <i>Analytical Chemistry</i> , 2018, 90, 7139-7147.	6.5	29
25	Optical Interference-Free Surface-Enhanced Raman Scattering CO-Nanotags for Logical Multiplex Detection of Vascular Disease-Related Biomarkers. <i>ACS Nano</i> , 2017, 11, 3365-3375.	14.6	57
26	Development of optimized nanogap plasmonic substrate for improved SERS enhancement. <i>AIP Advances</i> , 2017, 7, .	1.3	8
27	Ultra-sensitive near-infrared graphene photodetectors with nanopillar antennas. <i>Nanoscale</i> , 2017, 9, 17459-17464.	5.6	33
28	Ultra-sensitive graphene photodetector with plasmonic structure. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	22
29	Rapid SERS monitoring of lipid peroxidation-derived protein modifications in cells using photonic crystal fiber sensor. <i>Journal of Biophotonics</i> , 2016, 9, 32-37.	2.3	21
30	Side-channel photonic crystal fiber for surface enhanced Raman scattering sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 195-201.	7.8	58
31	Sensitive surface enhanced Raman scattering multiplexed detection of matrix metalloproteinase 2 and 7 cancer markers. <i>Biomedical Optics Express</i> , 2015, 6, 2076.	2.9	35
32	Highly sensitive SERS detection and quantification of sialic acid on single cell using photonic-crystal fiber with gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2015, 64, 227-233.	10.1	71
33	Sensitive SERS glucose sensing in biological media using alkyne functionalized boronic acid on planar substrates. <i>Biosensors and Bioelectronics</i> , 2014, 56, 186-191.	10.1	69
34	A Rapid and Label-free SERS Detection Method for Biomarkers in Clinical Biofluids. <i>Small</i> , 2014, 10, 5030-5034.	10.0	21
35	In vitro toxicity and bioimaging studies of gold nanorods formulations coated with biofunctional thiol-PEG molecules and Pluronic block copolymers. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 546-553.	2.8	21
36	Synthesis of PEGylated gold nanorods (Au NRs) as absorption nanoprobe for near-infrared optical imaging. <i>RSC Advances</i> , 2013, 3, 12280.	3.6	9

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37	Engineering Bioconjugated Gold Nanospheres and Gold Nanorods as Label-Free Plasmon Scattering Probes for Ultrasensitive Multiplex Dark-Field Imaging of Cancer Cells. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 985-991.	1.1	21
38	Magneto-optical fiber sensor based on bandgap effect of photonic crystal fiber infiltrated with magnetic fluid. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	137
39	Optimized sandwiched surface plasmon resonance enhanced biosensor for multiplex biomarker detection. , 2012, , .		0
40	Pluronic Triblock Copolymer Encapsulated Gold Nanorods as Biocompatible Localized Plasmon Resonance-Enhanced Scattering Probes for Dark-Field Imaging of Cancer Cells. <i>Plasmonics</i> , 2012, 7, 595-601.	3.4	23
41	A Temperature-Insensitive Twist Sensor by Using Low-Birefringence Photonic-Crystal-Fiber-Based Sagnac Interferometer. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 920-922.	2.5	107
42	Photoinduced whispering gallery mode microcavity resonator in a chalcogenide microfiber. <i>Optics Letters</i> , 2011, 36, 4761.	3.3	32