

# Yibo Zhu

## List of Publications by Year in descending order

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26  
papers

879  
citations

516710

16  
h-index

794594

19  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. ACS Applied Materials & Interfaces, 2017, 9, 27504-27511.	8.0	102
2	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	16.6	98
3	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. Nano Letters, 2018, 18, 3807-3813.	9.1	88
4	Fully integrated graphene electronic biosensor for label-free detection of lead (II) ion based on G-quadruplex structure-switching. Biosensors and Bioelectronics, 2017, 89, 758-763.	10.1	69
5	Measurement of cytokine biomarkers using an aptamer-based affinity graphene nanosensor on a flexible substrate toward wearable applications. Nanoscale, 2018, 10, 21681-21688.	5.6	69
6	Highly Solid-Gate Transistor Configured Graphene Biosensor with Fully Integrated Structure and Enhanced Sensitivity. Advanced Functional Materials, 2016, 26, 7668-7678.	14.9	54
7	An aptameric graphene nanosensor for label-free detection of small-molecule biomarkers. Biosensors and Bioelectronics, 2015, 71, 222-229.	10.1	53
8	A graphene-based affinity nanosensor for detection of low-charge and low-molecular-weight molecules. Nanoscale, 2016, 8, 5815-5819.	5.6	53
9	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. ACS Photonics, 2019, 6, 501-509.	6.6	47
10	A graphene aptasensor for biomarker detection in human serum. Electrochimica Acta, 2018, 290, 356-363.	5.2	46
11	Selective detection of water pollutants using a differential aptamer-based graphene biosensor. Biosensors and Bioelectronics, 2019, 126, 59-67.	10.1	41
12	Compact CMOS spectral sensor for the visible spectrum. Photonics Research, 2019, 7, 961.	7.0	35
13	A solid dielectric gated graphene nanosensor in electrolyte solutions. Applied Physics Letters, 2015, 106, 123503.	3.3	27
14	High-performance integrated graphene electro-optic modulator at cryogenic temperature. Nanophotonics, 2020, 10, 99-104.	6.0	26
15	Nano fabrication of star structure for precision metrology developed by focused ion beam direct writing. CIRP Annals - Manufacturing Technology, 2012, 61, 511-514.	3.6	19
16	High yield production of ultrathin fibroid semiconducting nanowire of Ta <sub>2</sub> Pd <sub>3</sub> Se <sub>8</sub> . Nano Research, 2020, 13, 1627-1635.	10.4	16
17	Fully Solid-State Graphene Transistors with Striking Homogeneity and Sensitivity for the Practicalization of Single-Device Electronic Bioassays. Nano Letters, 2020, 20, 166-175.	9.1	13
18	Exploiting electrostatic shielding-effect of metal nanoparticles to recognize uncharged small molecule affinity with label-free graphene electronic biosensor. Biosensors and Bioelectronics, 2019, 129, 93-99.	10.1	11

#	ARTICLE	IF	CITATIONS
19	A solid-gated graphene fet sensor for PH measurements. , 2015, , .		4
20	A microfluidic aptasensor integrating specific enrichment with a graphene nanosensor for label-free detection of small biomolecules. , 2015, , .		1
21	A graphene-based affinity glucose nanosensor. , 2015, , .		0
22	An aptameric graphene nanosensor for analyte detection in serum. , 2016, , .		0
23	Real-time monitoring of insulin using a graphene aptameric nanosensor. , 2017, , .		0
24	Tunable mid-infrared biosensors based on graphene metasurfaces. , 2017, , .		0
25	Active Metasurface Sensors for High Sensitivity Detection of the Concentration and Mid-Infrared Spectral Fingerprints of Biomolecules. , 2017, , .		0
26	Differential method for undisturbed detection of 17 $\beta$ -estradiol using an integrated aptameric graphene nanosensor. , 2018, , .		0