

Yibo Zhu

List of Publications by Year in descending order

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26
papers

879
citations

516710

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docs citations

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1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Solid-State Graphene Transistors with Striking Homogeneity and Sensitivity for the Practicalization of Single-Device Electronic Bioassays. <i>Nano Letters</i> , 2020, 20, 166-175.	9.1	13
2	High yield production of ultrathin fibroid semiconducting nanowire of Ta ₂ Pd ₃ Se ₈ . <i>Nano Research</i> , 2020, 13, 1627-1635.	10.4	16
3	High-performance integrated graphene electro-optic modulator at cryogenic temperature. <i>Nanophotonics</i> , 2020, 10, 99-104.	6.0	26
4	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. <i>ACS Photonics</i> , 2019, 6, 501-509.	6.6	47
5	Exploiting electrostatic shielding-effect of metal nanoparticles to recognize uncharged small molecule affinity with label-free graphene electronic biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 129, 93-99.	10.1	11
6	Selective detection of water pollutants using a differential aptamer-based graphene biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 126, 59-67.	10.1	41
7	Compact CMOS spectral sensor for the visible spectrum. <i>Photonics Research</i> , 2019, 7, 961.	7.0	35
8	Measurement of cytokine biomarkers using an aptamer-based affinity graphene nanosensor on a flexible substrate toward wearable applications. <i>Nanoscale</i> , 2018, 10, 21681-21688.	5.6	69
9	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. <i>Light: Science and Applications</i> , 2018, 7, 67.	16.6	98
10	A graphene aptasensor for biomarker detection in human serum. <i>Electrochimica Acta</i> , 2018, 290, 356-363.	5.2	46
11	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. <i>Nano Letters</i> , 2018, 18, 3807-3813.	9.1	88
12	Differential method for undisturbed detection of 17 β -estradiol using an integrated aptameric graphene nanosensor. , 2018, , .		0
13	Real-time monitoring of insulin using a graphene aptameric nanosensor. , 2017, , .		0
14	Tunable mid-infrared biosensors based on graphene metasurfaces. , 2017, , .		0
15	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27504-27511.	8.0	102
16	Fully integrated graphene electronic biosensor for label-free detection of lead (II) ion based on G-quadruplex structure-switching. <i>Biosensors and Bioelectronics</i> , 2017, 89, 758-763.	10.1	69
17	Active Metasurface Sensors for High Sensitivity Detection of the Concentration and Mid-Infrared Spectral Fingerprints of Biomolecules. , 2017, , .		0
18	An aptameric graphene nanosensor for analyte detection in serum. , 2016, , .		0

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19	High-Performance Solid-Gate Transistor Configured Graphene Biosensor with Fully Integrated Structure and Enhanced Sensitivity. <i>Advanced Functional Materials</i> , 2016, 26, 7668-7678.	14.9	54
20	A graphene-based affinity nanosensor for detection of low-charge and low-molecular-weight molecules. <i>Nanoscale</i> , 2016, 8, 5815-5819.	5.6	53
21	A solid-gated graphene fet sensor for PH measurements. , 2015, , .		4
22	An aptameric graphene nanosensor for label-free detection of small-molecule biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 71, 222-229.	10.1	53
23	A microfluidic aptasensor integrating specific enrichment with a graphene nanosensor for label-free detection of small biomolecules. , 2015, , .		1
24	A solid dielectric gated graphene nanosensor in electrolyte solutions. <i>Applied Physics Letters</i> , 2015, 106, 123503.	3.3	27
25	A graphene-based affinity glucose nanosensor. , 2015, , .		0
26	Nano fabrication of star structure for precision metrology developed by focused ion beam direct writing. <i>CIRP Annals - Manufacturing Technology</i> , 2012, 61, 511-514.	3.6	19