

Guangyu Xu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Label-free ratiometric monitoring of interferon gamma dynamics with spectrally filtered Si photodiode pairs. , 2021, , .		0
2	High-density two-color micro-LED array based on brushing-assisted micropatterning of quantum dots. , 2021, , .		0
3	Close-Packed PEDOT:PSS-Coated Graphene Microelectrodes for High-Resolution Interrogation of Neural Activity. IEEE Transactions on Electron Devices, 2021, 68, 3080-3086.	3.0	5
4	Spectrally filtered photodiode pairs for on-chip ratiometric aptasensing of cytokine dynamics. Sensors and Actuators B: Chemical, 2021, 345, 130330.	7.8	0
5	Brushing-Assisted Two-Color Quantum-Dot Micro-LED Array Towards Bi-Directional Optogenetics. IEEE Electron Device Letters, 2021, 42, 1504-1507.	3.9	5
6	Low-Impedance Low-Artifact PEDOT: PSS-Coated Graphene Electrodes Towards High Density Optogenetic Electrophysiology. IEEE Electron Device Letters, 2020, 41, 1261-1264.	3.9	10
7	Optogenetic control of calcium signaling over individual cells with a micro-LED array. , 2020, , .		0
8	Benchmarking Small-Dataset Structure-Activity-Relationship Models for Prediction of Wnt Signaling Inhibition. IEEE Access, 2020, 8, 228831-228840.	4.2	9
9	Spectrally filtered passive Si photodiode array for on-chip fluorescence imaging of intracellular calcium dynamics. Scientific Reports, 2019, 9, 9083.	3.3	9
10	Single-Cell Optogenetic Control of Calcium Signaling with a High-Density Micro-LED Array. IScience, 2019, 21, 403-412.	4.1	20
11	Effect of channel-width and chirality on graphene field-effect transistor based real-time biomolecule sensing. AIP Advances, 2018, 8, 035322.	1.3	4
12	High-Yield Passive Si Photodiode Array Towards Optical Neural Recording. IEEE Electron Device Letters, 2018, 39, 524-527.	3.9	5
13	Graphene field-effect transistors: the road to bioelectronics. Journal Physics D: Applied Physics, 2018, 51, 493001.	2.8	28
14	All-Electrical Graphene DNA Sensor Array. Methods in Molecular Biology, 2017, 1572, 169-187.	0.9	1
15	Optimization of CMOS-ISFET-Based Biomolecular Sensing: Analysis and Demonstration in DNA Detection. IEEE Transactions on Electron Devices, 2016, , 1-8.	3.0	28
16	Electrophoretic and field-effect graphene for all-electrical DNA array technology. Nature Communications, 2014, 5, 4866.	12.8	109
17	Variability Effects in Graphene: Challenges and Opportunities for Device Engineering and Applications. Proceedings of the IEEE, 2013, 101, 1670-1688.	21.3	29
18	Solid-state and biological systems interface. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Solid-State and biological systems interface. , 2012, , .		1
20	Edge Effect on Resistance Scaling Rules in Graphene Nanostructures. Nano Letters, 2011, 11, 1082-1086.	9.1	37
21	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. Applied Physics Letters, 2011, 99, .	3.3	140
22	Linewidth roughness in nanowire-mask-based graphene nanoribbons. Applied Physics Letters, 2011, 98, 243118.	3.3	13
23	Quantum Dot Behavior in Bilayer Graphene Nanoribbons. ACS Nano, 2011, 5, 8769-8773.	14.6	26
24	Visibility and Raman spectroscopy of mono and bilayer graphene on crystalline silicon. Applied Physics Letters, 2010, 96, .	3.3	15
25	Tunneling spectroscopy of metal-oxide-graphene structure. Applied Physics Letters, 2010, 97, 032104.	3.3	13
26	Enhanced Conductance Fluctuation by Quantum Confinement Effect in Graphene Nanoribbons. Nano Letters, 2010, 10, 4590-4594.	9.1	27
27	Low-noise submicron channel graphene nanoribbons. Applied Physics Letters, 2010, 97, 073107.	3.3	19
28	Effect of Spatial Charge Inhomogeneity on $1/f$ Noise Behavior in Graphene. Nano Letters, 2010, 10, 3312-3317.	9.1	83
29	Low-frequency noise in top-gated ambipolar carbon nanotube field effect transistors. Applied Physics Letters, 2008, 92, .	3.3	24
30	Loss Characteristics of Single- HE_{11} -Mode Bragg Fiber. Journal of Lightwave Technology, 2007, 25, 359-366.	4.6	9
31	Optical properties of solid core honeycomb photonic crystal fiber with different doping levels. , 2006, 6025, 31.		1
32	Large dispersion properties and nonlinear effects in up/down doping honeycomb photonic crystal fiber. Optical Engineering, 2006, 45, 125004.	1.0	1