

Guangyu Xu

List of Publications by Year in descending order

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687220

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33
all docs

33
docs citations

33
times ranked

1364
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust bi-stable memory operation in single-layer graphene ferroelectric memory. Applied Physics Letters, 2011, 99, .	1.5	140
2	Electrophoretic and field-effect graphene for all-electrical DNA array technology. Nature Communications, 2014, 5, 4866.	5.8	109
3	Effect of Spatial Charge Inhomogeneity on 1/f Noise Behavior in Graphene. Nano Letters, 2010, 10, 3312-3317.	4.5	83
4	Edge Effect on Resistance Scaling Rules in Graphene Nanostructures. Nano Letters, 2011, 11, 1082-1086.	4.5	37
5	Variability Effects in Graphene: Challenges and Opportunities for Device Engineering and Applications. Proceedings of the IEEE, 2013, 101, 1670-1688.	16.4	29
6	Optimization of CMOS-ISFET-Based Biomolecular Sensing: Analysis and Demonstration in DNA Detection. IEEE Transactions on Electron Devices, 2016, , 1-8.	1.6	28
7	Graphene field-effect transistors: the road to bioelectronics. Journal Physics D: Applied Physics, 2018, 51, 493001.	1.3	28
8	Enhanced Conductance Fluctuation by Quantum Confinement Effect in Graphene Nanoribbons. Nano Letters, 2010, 10, 4590-4594.	4.5	27
9	Quantum Dot Behavior in Bilayer Graphene Nanoribbons. ACS Nano, 2011, 5, 8769-8773.	7.3	26
10	Low-frequency noise in top-gated ambipolar carbon nanotube field effect transistors. Applied Physics Letters, 2008, 92, .	1.5	24
11	Single-Cell Optogenetic Control of Calcium Signaling with a High-Density Micro-LED Array. IScience, 2019, 21, 403-412.	1.9	20
12	Low-noise submicron channel graphene nanoribbons. Applied Physics Letters, 2010, 97, 073107.	1.5	19
13	Visibility and Raman spectroscopy of mono and bilayer graphene on crystalline silicon. Applied Physics Letters, 2010, 96, .	1.5	15
14	Tunneling spectroscopy of metal-oxide-graphene structure. Applied Physics Letters, 2010, 97, 032104.	1.5	13
15	Linewidth roughness in nanowire-mask-based graphene nanoribbons. Applied Physics Letters, 2011, 98, 243118.	1.5	13
16	Low-Impedance Low-Artifact PEDOT: PSS-Coated Graphene Electrodes Towards High Density Optogenetic Electrophysiology. IEEE Electron Device Letters, 2020, 41, 1261-1264.	2.2	10
17	Loss Characteristics of Single-HE ₁₁ -Mode Bragg Fiber. Journal of Lightwave Technology, 2007, 25, 359-366.	2.7	9
18	Spectrally filtered passive Si photodiode array for on-chip fluorescence imaging of intracellular calcium dynamics. Scientific Reports, 2019, 9, 9083.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Benchmarking Small-Dataset Structure-Activity-Relationship Models for Prediction of Wnt Signaling Inhibition. IEEE Access, 2020, 8, 228831-228840.	2.6	9
20	High-Yield Passive Si Photodiode Array Towards Optical Neural Recording. IEEE Electron Device Letters, 2018, 39, 524-527.	2.2	5
21	Close-Packed PEDOT:PSS-Coated Graphene Microelectrodes for High-Resolution Interrogation of Neural Activity. IEEE Transactions on Electron Devices, 2021, 68, 3080-3086.	1.6	5
22	Brushing-Assisted Two-Color Quantum-Dot Micro-LED Array Towards Bi-Directional Optogenetics. IEEE Electron Device Letters, 2021, 42, 1504-1507.	2.2	5
23	Effect of channel-width and chirality on graphene field-effect transistor based real-time biomolecule sensing. AIP Advances, 2018, 8, 035322.	0.6	4
24	Optical properties of solid core honeycomb photonic crystal fiber with different doping levels. , 2006, 6025, 31.		1
25	Large dispersion properties and nonlinear effects in up/down doping honeycomb photonic crystal fiber. Optical Engineering, 2006, 45, 125004.	0.5	1
26	Solid-State and biological systems interface. , 2012, , .		1
27	All-Electrical Graphene DNA Sensor Array. Methods in Molecular Biology, 2017, 1572, 169-187.	0.4	1
28	Solid-state and biological systems interface. , 2012, , .		0
29	Label-free ratiometric monitoring of interferon gamma dynamics with spectrally filtered Si photodiode pairs. , 2021, , .		0
30	High-density two-color micro-LED array based on brushing-assisted micropatterning of quantum dots. , 2021, , .		0
31	Spectrally filtered photodiode pairs for on-chip ratiometric aptasensing of cytokine dynamics. Sensors and Actuators B: Chemical, 2021, 345, 130330.	4.0	0
32	Optogenetic control of calcium signaling over individual cells with a micro-LED array. , 2020, , .		0