

Youngbin Tchoe

List of Publications by Year in descending order

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23
papers

671
citations

567281

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677142

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all docs

23
docs citations

23
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and characterizations of GaN micro-rods on graphene films for flexible light emitting diodes. APL Materials, 2014, 2, .	5.1	98
2	Skyrmion generation by current. Physical Review B, 2012, 85, .	3.2	87
3	Flexible GaN Light-Emitting Diodes Using GaN Microdisks Epitaxial Laterally Overgrown on Graphene Dots. Advanced Materials, 2016, 28, 7688-7694.	21.0	75
4	Selective Formation of Porous Pt Nanorods for Highly Electrochemically Efficient Neural Electrode Interfaces. Nano Letters, 2019, 19, 6244-6254.	9.1	51
5	Human brain mapping with multithousand-channel PtNRGrids resolves spatiotemporal dynamics. Science Translational Medicine, 2022, 14, eabj1441.	12.4	46
6	Variable-Color Light-Emitting Diodes Using GaN Microdonut arrays. Advanced Materials, 2014, 26, 3019-3023.	21.0	41
7	Real-Time Characterization Using in situ RHEED Transmission Mode and TEM for Investigation of the Growth Behaviour of Nanomaterials. Scientific Reports, 2018, 8, 1694.	3.3	29
8	Microscale Physiological Events on the Human Cortical Surface. Cerebral Cortex, 2021, 31, 3678-3700.	2.9	29
9	Centimeter-sized epitaxial h-BN films. NPG Asia Materials, 2016, 8, e330-e330.	7.9	26
10	Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. Small, 2018, 14, e1800240.	10.0	25
11	Highly sensitive and flexible pressure sensors using position- and dimension-controlled ZnO nanotube arrays grown on graphene films. NPG Asia Materials, 2021, 13, .	7.9	24
12	Ultra-Sharp Nanowire Arrays Natively Permeate, Record, and Stimulate Intracellular Activity in Neuronal and Cardiac Networks. Advanced Functional Materials, 2022, 32, 2108378.	14.9	21
13	Growth and optical characteristics of high-quality ZnO thin films on graphene layers. APL Materials, 2015, 3, .	5.1	20
14	Individually addressable and flexible pressure sensor matrixes with ZnO nanotube arrays on graphene. NPG Asia Materials, 2022, 14, .	7.9	18
15	Microtube Light-Emitting Diode Arrays with Metal Cores. ACS Nano, 2016, 10, 3114-3120.	14.6	16
16	Catalyst-free growth of InAs/InxGa1-xAs coaxial nanorod heterostructures on graphene layers using molecular beam epitaxy. NPG Asia Materials, 2015, 7, e206-e206.	7.9	14
17	Free-standing and ultrathin inorganic light-emitting diode array. NPG Asia Materials, 2019, 11, .	7.9	12
18	Dimension- and position-controlled growth of GaN microstructure arrays on graphene films for flexible device applications. Scientific Reports, 2021, 11, 17524.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Vertical monolithic integration of wide- and narrow-bandgap semiconductor nanostructures on graphene films. NPG Asia Materials, 2021, 13, .	7.9	10
20	Real-time device-scale imaging of conducting filament dynamics in resistive switching materials. Scientific Reports, 2016, 6, 27451.	3.3	9
21	Considerations and recent advances in nanoscale interfaces with neuronal and cardiac networks. Applied Physics Reviews, 2021, 8, 041317.	11.3	5
22	ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. APL Materials, 2017, 5, .	5.1	4
23	B21-P-05 Characterization of $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{InAs}$ Coaxial Nanorod Grown on Graphene Layers by Catalyst-Free Molecular Beam Epitaxy. Microscopy (Oxford, England), 2015, 64, i99.2-i99.	1.5	0