Youngbin Tchoe

List of Publications by Year
in descending order

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		567281	677142
23	671	15	22
papers	citations	h-index	g-index

23	23	23	1141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultraâ€Sharp Nanowire Arrays Natively Permeate, Record, and Stimulate Intracellular Activity in Neuronal and Cardiac Networks. Advanced Functional Materials, 2022, 32, 2108378.	14.9	21
2	Human brain mapping with multithousand-channel PtNRGrids resolves spatiotemporal dynamics. Science Translational Medicine, 2022, 14, eabj1441.	12.4	46
3	Individually addressable and flexible pressure sensor matrixes with ZnO nanotube arrays on graphene. NPG Asia Materials, 2022, 14, .	7.9	18
4	Microscale Physiological Events on the Human Cortical Surface. Cerebral Cortex, 2021, 31, 3678-3700.	2.9	29
5	Vertical monolithic integration of wide- and narrow-bandgap semiconductor nanostructures on graphene films. NPG Asia Materials, 2021, 13, .	7.9	10
6	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
7	Dimension- and position-controlled growth of GaN microstructure arrays on graphene films for flexible device applications. Scientific Reports, 2021, 11, 17524.	3.3	11
8	Considerations and recent advances in nanoscale interfaces with neuronal and cardiac networks. Applied Physics Reviews, 2021, 8, 041317.	11.3	5
9	Selective Formation of Porous Pt Nanorods for Highly Electrochemically Efficient Neural Electrode Interfaces. Nano Letters, 2019, 19, 6244-6254.	9.1	51
10	Free-standing and ultrathin inorganic light-emitting diode array. NPG Asia Materials, 2019, 11, .	7.9	12
11	Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. Small, 2018, 14, e1800240.	10.0	25
12	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
13	ZnO nanotube waveguide arrays on graphene films for local optical excitation on biological cells. APL Materials, 2017, 5, .	5.1	4
14	Centimeter-sized epitaxial h-BN films. NPG Asia Materials, 2016, 8, e330-e330.	7.9	26
15	Real-time device-scale imaging of conducting filament dynamics in resistive switching materials. Scientific Reports, 2016, 6, 27451.	3.3	9
16	Flexible GaN Lightâ€Emitting Diodes Using GaN Microdisks Epitaxial Laterally Overgrown on Graphene Dots. Advanced Materials, 2016, 28, 7688-7694.	21.0	75
17	Microtube Light-Emitting Diode Arrays with Metal Cores. ACS Nano, 2016, 10, 3114-3120.	14.6	16
18	B21-P-05Characterization of InxGa1-xAs/InAs Coaxial Nanorod Grown on Graphene Layers by Catalyst-Free Molecular Beam Epitaxy. Microscopy (Oxford, England), 2015, 64, i99.2-i99.	1.5	0

#	Article	IF	Citations
19	Growth and optical characteristics of high-quality ZnO thin films on graphene layers. APL Materials, 2015, 3, .	5.1	20
20	Catalyst-free growth of InAs/InxGa1â^'xAs coaxial nanorod heterostructures on graphene layers using molecular beam epitaxy. NPG Asia Materials, 2015, 7, e206-e206.	7.9	14
21	Variableâ€Color Lightâ€Emitting Diodes Using GaN Microdonut arrays. Advanced Materials, 2014, 26, 3019-3023.	21.0	41
22	Growth and characterizations of GaN micro-rods on graphene films for flexible light emitting diodes. APL Materials, 2014, 2, .	5.1	98
23	Skyrmion generation by current. Physical Review B, 2012, 85, .	3.2	87