Roland Yingjie Tay

List of Publications by Year
in descending order

25 papers	1,789 citations	430442 18 h-index	610482 24 g-index
25 all docs	25 docs citations	25 times ranked	3250 citing authors

#	Article	IF	Citations
1	Growth of Large Single-Crystalline Two-Dimensional Boron Nitride Hexagons on Electropolished Copper. Nano Letters, 2014, 14, 839-846.	4.5	275
2	Biocompatible Hydroxylated Boron Nitride Nanosheets/Poly(vinyl alcohol) Interpenetrating Hydrogels with Enhanced Mechanical and Thermal Responses. ACS Nano, 2017, 11, 3742-3751.	7.3	191
3	Hexagonal Boron Nitride Thin Film for Flexible Resistive Memory Applications. Advanced Functional Materials, 2016, 26, 2176-2184.	7.8	167
4	Controllable Synthesis of Highly Luminescent Boron Nitride Quantum Dots. Small, 2015, 11, 6491-6499.	5.2	148
5	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. Journal of Materials Chemistry A, 2016, 4, 3754-3764.	5.2	136
6	Lightweight, Superelastic Boron Nitride/Polydimethylsiloxane Foam as Air Dielectric Substitute for Multifunctional Capacitive Sensor Applications. Advanced Functional Materials, 2020, 30, 1909604.	7.8	117
7	Direct Observation of Indium Conductive Filaments in Transparent, Flexible, and Transferable Resistive Switching Memory. ACS Nano, 2017, 11, 1712-1718.	7.3	83
8	Band gap effects of hexagonal boron nitride using oxygen plasma. Applied Physics Letters, 2014, 104, .	1.5	82
9	Synthesis of aligned symmetrical multifaceted monolayer hexagonal boron nitride single crystals on resolidified copper. Nanoscale, 2016, 8, 2434-2444.	2.8	81
10	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. Advanced Materials, 2019, 31, e1806603.	11.1	73
11	A systematic study of the atmospheric pressure growth of large-area hexagonal crystalline boron nitride film. Journal of Materials Chemistry C, 2014, 2, 1650.	2.7	72
12	Trimethylamine Borane: A New Single-Source Precursor for Monolayer h-BN Single Crystals and h-BCN Thin Films. Chemistry of Materials, 2016, 28, 2180-2190.	3.2	62
13	Direct growth of nanocrystalline hexagonal boron nitride films on dielectric substrates. Applied Physics Letters, 2015, 106, .	1.5	60
14	Engineering of High-Density Thin-Layer Graphite Foam-Based Composite Architectures with Superior Compressibility and Excellent Electromagnetic Interference Shielding Performance. ACS Applied Materials & Interfaces, 2018, 10, 41707-41716.	4.0	55
15	Configurable Threeâ€Dimensional Boron Nitrideâ€“Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances. Small, 2014, 10, 2992-2999.	5.2	50
16	One-dimensional hexagonal boron nitride conducting channel. Science Advances, 2020, 6, eaay4958.	4.7	37
17	Multifunctional and highly compressive cross-linker-free sponge based on reduced graphene oxide and boron nitride nanosheets. Chemical Engineering Journal, 2017, 328, 825-833.	6.6	30
18	Concentric and Spiral Few-Layer Graphene: Growth Driven by Interfacial Nucleation vs Screw Dislocation. Chemistry of Materials, 2018, 30, 6858-6866.	3.2	21

#	Article	IF	Citations
19	Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. Nano Letters, 2019, 19, 4229-4236.	4.5	15
20	Composition-controlled synthesis and tunable optical properties of ternary boron carbonitride nanotubes. RSC Advances, 2017, 7, 12511-12517.	1.7	14
21	Thermally Conductive and Leakage-Proof Phase-Change Materials Composed of Dense Graphene Foam and Paraffin for Thermal Management. ACS Applied Nano Materials, 2022, 5, 8362-8370.	2.4	10
22	Waferâ€Scale Vertically Aligned Carbon Nanotubes Locked by In Situ Hydrogelation toward Strengthening Static and Dynamic Compressive Responses. Macromolecular Materials and Engineering, 2018, 303, 1800024.	1.7	6
23	3D Porous Graphene Films with Largeâ€Area Inâ€Plane Exterior Skins. Advanced Materials Interfaces, 2022, 9, .	1.9	3
24	Foams: Configurable Three-Dimensional Boron Nitride-Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances (Small 15/2014). Small, 2014, 10, 2966-2966.	5.2	1
25	Laser writing of localized color centers in hexagonal boron nitrides monolayers. , 2017, , .		0