

Roland Yingjie Tay

List of Publications by Year in descending order

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25
papers

1,789
citations

430754

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610775

24
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25
docs citations

25
times ranked

3250
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Porous Graphene Films with Large Area In-Plane Exterior Skins. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	3
2	Thermally Conductive and Leakage-Proof Phase-Change Materials Composed of Dense Graphene Foam and Paraffin for Thermal Management. <i>ACS Applied Nano Materials</i> , 2022, 5, 8362-8370.	2.4	10
3	Lightweight, Superelastic Boron Nitride/Polydimethylsiloxane Foam as Air Dielectric Substitute for Multifunctional Capacitive Sensor Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909604.	7.8	117
4	One-dimensional hexagonal boron nitride conducting channel. <i>Science Advances</i> , 2020, 6, eaay4958.	4.7	37
5	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1806603.	11.1	73
6	Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. <i>Nano Letters</i> , 2019, 19, 4229-4236.	4.5	15
7	Engineering of High-Density Thin-Layer Graphite Foam-Based Composite Architectures with Superior Compressibility and Excellent Electromagnetic Interference Shielding Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41707-41716.	4.0	55
8	Wafer-Scale Vertically Aligned Carbon Nanotubes Locked by In Situ Hydrogelation toward Strengthening Static and Dynamic Compressive Responses. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800024.	1.7	6
9	Concentric and Spiral Few-Layer Graphene: Growth Driven by Interfacial Nucleation vs Screw Dislocation. <i>Chemistry of Materials</i> , 2018, 30, 6858-6866.	3.2	21
10	Direct Observation of Indium Conductive Filaments in Transparent, Flexible, and Transferable Resistive Switching Memory. <i>ACS Nano</i> , 2017, 11, 1712-1718.	7.3	83
11	Biocompatible Hydroxylated Boron Nitride Nanosheets/Poly(vinyl alcohol) Interpenetrating Hydrogels with Enhanced Mechanical and Thermal Responses. <i>ACS Nano</i> , 2017, 11, 3742-3751.	7.3	191
12	Composition-controlled synthesis and tunable optical properties of ternary boron carbonitride nanotubes. <i>RSC Advances</i> , 2017, 7, 12511-12517.	1.7	14
13	Multifunctional and highly compressive cross-linker-free sponge based on reduced graphene oxide and boron nitride nanosheets. <i>Chemical Engineering Journal</i> , 2017, 328, 825-833.	6.6	30
14	Laser writing of localized color centers in hexagonal boron nitrides monolayers. , 2017, , .		0
15	Hexagonal Boron Nitride Thin Film for Flexible Resistive Memory Applications. <i>Advanced Functional Materials</i> , 2016, 26, 2176-2184.	7.8	167
16	Trimethylamine Borane: A New Single-Source Precursor for Monolayer h-BN Single Crystals and h-BCN Thin Films. <i>Chemistry of Materials</i> , 2016, 28, 2180-2190.	3.2	62
17	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3754-3764.	5.2	136
18	Synthesis of aligned symmetrical multifaceted monolayer hexagonal boron nitride single crystals on resolidified copper. <i>Nanoscale</i> , 2016, 8, 2434-2444.	2.8	81

#	ARTICLE	IF	CITATIONS
19	Controllable Synthesis of Highly Luminescent Boron Nitride Quantum Dots. <i>Small</i> , 2015, 11, 6491-6499.	5.2	148
20	Direct growth of nanocrystalline hexagonal boron nitride films on dielectric substrates. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	60
21	Growth of Large Single-Crystalline Two-Dimensional Boron Nitride Hexagons on Electropolished Copper. <i>Nano Letters</i> , 2014, 14, 839-846.	4.5	275
22	Band gap effects of hexagonal boron nitride using oxygen plasma. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	82
23	A systematic study of the atmospheric pressure growth of large-area hexagonal crystalline boron nitride film. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1650.	2.7	72
24	Configurable Three-Dimensional Boron Nitride-Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances. <i>Small</i> , 2014, 10, 2992-2999.	5.2	50
25	Foams: Configurable Three-Dimensional Boron Nitride-Carbon Architecture and Its Tunable Electronic Behavior with Stable Thermal Performances (<i>Small</i> 15/2014). <i>Small</i> , 2014, 10, 2966-2966.	5.2	1