

Growth selectivity of hexagonal-boron nitride layers on orientations

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Advances in 2D boron nitride nanostructures: nanosheets, nanoribbons, nanomeshes, and hybrids with graphene. <i>Nanoscale</i> , 2012, 4, 6908.	2.8	745
2	Efficient catalytic conversion of ammonia borane to borazine and its use for hexagonal boron nitride (white graphene). <i>Journal of Materials Chemistry A</i> , 2013, 1, 1976-1981.	5.2	40
3	Synthesis and Transfer of Single-Layer Transition Metal Disulfides on Diverse Surfaces. <i>Nano Letters</i> , 2013, 13, 1852-1857.	4.5	612
4	Synthesis of Patched or Stacked Graphene and hBN Flakes: A Route to Hybrid Structure Discovery. <i>Nano Letters</i> , 2013, 13, 933-941.	4.5	179
5	Two-dimensional semiconductors: recent progress and future perspectives. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2952.	2.7	317
6	Nanostructured and architected boron nitride from boron, nitrogen and hydrogen-containing molecular and polymeric precursors. <i>Materials Today</i> , 2014, 17, 443-450.	8.3	59
7	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <i>RSC Advances</i> , 2014, 4, 14115-14127.	1.7	101
8	Controllable Co-segregation Synthesis of Wafer-scale Hexagonal Boron Nitride Thin Films. <i>Advanced Materials</i> , 2014, 26, 1776-1781.	11.1	87
9	Nano boron nitride flatland. <i>Chemical Society Reviews</i> , 2014, 43, 934-959.	18.7	638
10	Triggering the atomic layers control of hexagonal boron nitride films. <i>Applied Surface Science</i> , 2014, 313, 647-653.	3.1	21
11	Two-dimensional Material Membranes: An Emerging Platform for Controllable Mass Transport Applications. <i>Small</i> , 2014, 10, 4521-4542.	5.2	115
12	Van der Waals epitaxy and characterization of hexagonal boron nitride nanosheets on graphene. <i>Nanoscale Research Letters</i> , 2014, 9, 367.	3.1	29
13	Large-Area Monolayer Hexagonal Boron Nitride on Pt Foil. <i>ACS Nano</i> , 2014, 8, 8520-8528.	7.3	200
14	A new horizon for hexagonal boron nitride film. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1605-1616.	0.3	28
15	Characterization of bulk hexagonal boron nitride single crystals grown by the metal flux technique. <i>Journal of Crystal Growth</i> , 2014, 403, 110-113.	0.7	33
16	Growth kinetics of white graphene (h-BN) on a planarised Ni foil surface. <i>Scientific Reports</i> , 2015, 5, 11985.	1.6	40
17	Self-Aligned Single-Crystalline Hexagonal Boron Nitride Arrays: Toward Higher Integrated Electronic Devices. <i>Advanced Electronic Materials</i> , 2015, 1, 1500223.	2.6	46
18	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. <i>Advanced Materials</i> , 2015, 27, 8109-8115.	11.1	74

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19	Few-atomic-layer boron nitride nanosheets synthesized in solid thermal waves. RSC Advances, 2015, 5, 8579-8584.	1.7	20
20	Synthesis of large single-crystal hexagonal boron nitride grains on Cu-Ni alloy. Nature Communications, 2015, 6, 6160.	5.8	310
21	Electron Backscatter Diffraction Study of Hexagonal Boron Nitride Growth on Cu Single-Crystal Substrates. ACS Applied Materials & Interfaces, 2015, 7, 15200-15205.	4.0	12
22	Synthesis and Application of Monolayer Semiconductors (June 2015). IEEE Journal of Quantum Electronics, 2015, 51, 1-10.	1.0	13
23	Synthesis of atomically thin hexagonal boron nitride films on nickel foils by molecular beam epitaxy. Applied Physics Letters, 2015, 106, .	1.5	81
24	Controlled Synthesis of Atomically Layered Hexagonal Boron Nitride via Chemical Vapor Deposition. Molecules, 2016, 21, 1636.	1.7	16
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31	Epitaxial chemical vapour deposition growth of monolayer hexagonal boron nitride on a Cu(111)/sapphire substrate. Physical Chemistry Chemical Physics, 2017, 19, 8230-8235.	1.3	40
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33	Recent progress in synthesis of two-dimensional hexagonal boron nitride. Journal of Semiconductors, 2017, 38, 031003.	2.0	43
34	Synthesis of continuous hexagonal boron nitride films on alloy substrate. Materials Letters, 2017, 196, 252-255.	1.3	7
35	Atomistic Insights into Nucleation and Formation of Hexagonal Boron Nitride on Nickel from First-Principles-Based Reactive Molecular Dynamics Simulations. ACS Nano, 2017, 11, 3585-3596.	7.3	55
36	Two dimensional hexagonal boron nitride (2D-hBN): synthesis, properties and applications. Journal of Materials Chemistry C, 2017, 5, 11992-12022.	2.7	732

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37	Electrical Homogeneity of Large-Area Chemical Vapor Deposited Multilayer Hexagonal Boron Nitride Sheets. ACS Applied Materials & Interfaces, 2017, 9, 39895-39900.	4.0	27
38	Time dependent decomposition of ammonia borane for the controlled production of 2D hexagonal boron nitride. Scientific Reports, 2017, 7, 14297.	1.6	31
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40	Growth of h-BN on copper (110) in a LEEM. Surface Science, 2018, 669, 133-139.	0.8	10
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42	Nucleation of boron-nitrogen on transition metal surface: A first-principles investigation. Chinese Journal of Chemical Physics, 2018, 31, 335-340.	0.6	3
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44	Chemical sensing with 2D materials. Chemical Society Reviews, 2018, 47, 4860-4908.	18.7	513
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56	Two-dimensional Boron Nitride for Electronics and Energy Applications. <i>Energy and Environmental Materials</i> , 2022, 5, 10-44.	7.3	11
57	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. <i>Chemical Society Reviews</i> , 2021, 50, 11381-11485.	18.7	129
58	The stable interfaces between various edges of hBN and step edges of Cu surface in hBN epitaxial growth: a comprehensive theoretical exploration. <i>2D Materials</i> , 2021, 8, 034004.	2.0	7
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60	Dominant formation of h-BC ₂ N in h-BxCyNz films: CVD synthesis and characterization. <i>Carbon</i> , 2021, 182, 791-798.	5.4	23
61	Heteroepitaxial growth of sp ² -hybridized boron nitride multilayer on nickel substrates by CVD: the key role of the substrate orientation. <i>2D Materials</i> , 2020, 7, 045018.	2.0	10
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63	Adsorption of toxic gases on metal doped C ₃ N monolayer: A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2022, 1208, 113559.	1.1	1
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66	Large-Scale Synthesis h-BN Films on Copper-Nickel Alloy by Atmospheric Pressure Chemical Vapor Deposition. <i>Crystals</i> , 2022, 12, 985.	1.0	2
67	Molecular beam epitaxial growth of multilayer 2D-boron nitride on Ni substrates from borazine and plasma-activated nitrogen. <i>Nanotechnology</i> , 2023, 34, 035601.	1.3	1
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