Nguyen Thanh Cuong

List of Publications by Year
in descending order

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49 papers	1,486 citations	331259 21 h-index	315357 38 g-index
49 all docs	49 docs citations	49 times ranked	2431 citing authors

#	Article	IF	Citations
1	Geometric and Electronic Structures of Spiro-graphene Comprising Fused Pentagons and Octagons. Journal of the Physical Society of Japan, 2022, 91, .	0.7	1
2	A two-dimensional magnetic carbon allotrope of hexagonally arranged fused pentagons. Applied Physics Express, 2022, 15, 035001.	1.1	0
3	Chemical stability of hydrogen boride nanosheets in water. Communications Materials, 2021, 2, .	2.9	15
4	Electronic structure of a borophene layer in rare-earth aluminum/chromium boride and its hydrogenated derivative borophane. Physical Review Materials, 2021, 5, .	0.9	13
5	Spiro-graphene: A two-dimensional metallic carbon allotrope of fused pentagons. Carbon, 2021, 185, 404-409.	5.4	7
6	Topological Dirac nodal loops in nonsymmorphic hydrogenated monolayer boron. Physical Review B, 2020, 101, .	1.1	19
7	Pentadiamond: A Hard Carbon Allotrope of a Pentagonal Network of sp2 and sp3 C Atoms. Physical Review Letters, 2020, 125, 016001.	2.9	25
8	Measurement of the Low-Energy Electron Inelastic Mean Free Path in Monolayer Graphene. Physical Review Applied, 2020, 13, .	1.5	10
9	Combined first-principles and electromagnetic simulation study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -type doped anatase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> for the applications in infrared surface plasmon photonics. Physical Review Materials, 2020, 4, .	0.9	2
10	Experimental Evidence of Anisotropic and Stable Charged Excitons (Trions) in Atomically Thin 2D ReS₂. Advanced Functional Materials, 2019, 29, 1905961.	7.8	18
11	Photoinduced hydrogen release from hydrogen boride sheets. Nature Communications, 2019, 10, 4880.	5.8	63
12	Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. APL Materials, 2019, 7, 101103.	2.2	7
13	Structure and optical properties of sputter deposited pseudobrookite Fe₂TiO₅ thin films. CrystEngComm, 2019, 21, 34-40.	1.3	30
14	Direct and Indirect Exciton Dynamics in Fewâ€Layered ReS₂ Revealed by Photoluminescence and Pumpâ€Probe Spectroscopy. Advanced Functional Materials, 2019, 29, 1806169.	7.8	39
15	Semimetallicity of free-standing hydrogenated monolayer boron from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review Materials, 2019, 3, .	0.9	29
16	Bandâ€Gap Engineering of Graphene Heterostructures by Substitutional Doping with B 3 N 3. ChemPhysChem, 2018, 19, 237-242.	1.0	7
17	Solvent-Mediated Shape Engineering of Fullerene (C₆₀) Polyhedral Microcrystals. Chemistry of Materials, 2018, 30, 7146-7153.	3.2	37
18	Moisture barrier properties of single-layer graphene deposited on Cu films for Cu metallization. Japanese Journal of Applied Physics, 2018, 57, 04FC08.	0.8	8

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19	Virtual substrate method for nanomaterials characterization. Nature Communications, 2017, 8, 15629.	5.8	25
20	Suppression of conductivity deterioration of copper thin films by coating with atomic-layer materials. Applied Physics Letters, 2017, 110, .	1.5	22
21	Formation and Characterization of Hydrogen Boride Sheets Derived from MgB₂ by Cation Exchange. Journal of the American Chemical Society, 2017, 139, 13761-13769.	6.6	157
22	Anomalous electrostatic potential properties in carbon nanotube thin films under a weak external electric field. Applied Physics Express, 2016, 9, 045101.	1.1	4
23	Coexistence of Dirac cones and Kagome flat bands in a porous graphene. Carbon, 2016, 109, 755-763.	5.4	46
24	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. Physical Review B, 2016, 94, .	1.1	71
25	Threshold voltage variation for charge accumulation in carbon nanotube owing to monatomic defect arrangement. Japanese Journal of Applied Physics, 2015, 54, 06FF04.	0.8	0
26	Tuning Localized Transverse Surface Plasmon Resonance in Electricity-Selected Single-Wall Carbon Nanotubes by Electrochemical Doping. Physical Review Letters, 2015, 114, 176807.	2.9	30
27	Geometric and Electronic Structures of Two-Dimensional Networks of Fused C₃₆ Fullerenes. Journal of the Physical Society of Japan, 2015, 84, 084706.	0.7	14
28	Influence of defects on carrier injection in carbon nanotubes with defects. Japanese Journal of Applied Physics, 2015, 54, 065101.	0.8	10
29	Electronic structures of carbon nanotubes with monovacancy under an electric field. Japanese Journal of Applied Physics, 2014, 53, 115102.	0.8	4
30	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. Nature Nanotechnology, 2014, 9, 436-442.	15.6	228
31	Gate-induced electron-state tuning of MoS₂: first-principles calculations. Journal of Physics Condensed Matter, 2014, 26, 135001.	0.7	30
32	Flexible Metallic Nanowires with Self-Adaptive Contacts to Semiconducting Transition-Metal Dichalcogenide Monolayers. Microscopy and Microanalysis, 2014, 20, 1760-1761.	0.2	1
33	Absence of edge states near the 120<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>â˜</mml:mo></mml:msup></mml:math>corners of zigzag graphene nanoribbons. Physical Review B, 2013, 87, .	1.1	14
34	Charge Manipulation in Molecules Encapsulated Inside Single-Wall Carbon Nanotubes. Physical Review Letters, 2013, 110, 086801.	2.9	18
35	Highly Ordered Cobaltâ€“Phthalocyanine Chains on Fractional Atomic Steps: One-Dimensionality and Electron Hybridization. ACS Nano, 2013, 7, 1317-1323.	7.3	19
36	The Importance of Electron Correlation on Stacking Interaction of Adenine-Thymine Base-Pair Step in B-DNA: A Quantum Monte Carlo Study. Journal of Chemical Theory and Computation, 2013, 9, 1081-1086.	2.3	27

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37	High-Efficiency Photoelectric Conversion in Grapheneâ€“Diamond Hybrid Structures: Model and First-Principles Calculations. Applied Physics Express, 2013, 6, 045104.	1.1	8
38	Tunable Magnetic Properties of Rhombohedral Graphite Thin Films: Effects of Insulating Substrate on Magnetic Properties. Japanese Journal of Applied Physics, 2012, 51, 02BN04.	0.8	0
39	Electron-state engineering of bilayer graphene by ionic molecules. Applied Physics Letters, 2012, 101, 233106.	1.5	10
40	Magnetic-state tuning of the rhombohedral graphite film by interlayer spacing and thickness. Surface Science, 2012, 606, 253-257.	0.8	7
41	Geometries and electronic structures of graphene adsorbed on SiO<inf>2</inf> (0001) surfaces: The possibility of electronic structure tuning by an insulating substrate. , 2011, , .		0
42	Semiconducting Electronic Property of Graphene Adsorbed on (0001) Surfaces of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 106, 106801.	2.9	171
43	Origin of the n-type transport behavior of azafullerene encapsulated single-walled carbon nanotubes. Applied Physics Letters, 2011, 99, 053105.	1.5	4
44	Size dependence of the bulk modulus of semiconductor nanocrystals from first-principles calculations. Physical Review B, 2010, 82, .	1.1	34
45	Substrate-mediated interactions of Pt atoms adsorbed on single-wall carbon nanotubes: Density functional calculations. Physical Review B, 2009, 79, .	1.1	23
46	Density functional study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pt</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> adsorbed on a carbon nanotube support. Physical Review B, 2009, 79, .	1.1	39
47	Effects of carbon supports on Pt nano-cluster catalyst. Computational Materials Science, 2008, 44, 163-166.	1.4	37
48	Structural and electronic properties of Ptn (n = 3, 7, 13) clusters on metallic single wall carbon nanotube. Physica Status Solidi (B): Basic Research, 2006, 243, 3472-3475.	0.7	32
49	Electronic structures of Pt clusters adsorbed on (5,5) single wall carbon nanotube. Chemical Physics Letters, 2006, 432, 213-217.	1.2	71