

# Nguyen Thanh Cuong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7700716/publications.pdf>

Version: 2024-02-01

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  | Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. <i>Nature Nanotechnology</i> , 2014, 9, 436-442.  | 15.6 | 228       |
| 2  | Semiconducting Electronic Property of Graphene Adsorbed on (0001) Surfaces of $\text{SiO}_2$ . <i>Physical Review Letters</i> , 2011, 106, 106801.  | 2.9  | 171       |
| 3  | Formation and Characterization of Hydrogen Boride Sheets Derived from $\text{MgB}_2$ by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 13761-13769.                              | 6.6  | 157       |
| 4  | Electronic structures of Pt clusters adsorbed on (5,5) single wall carbon nanotube. <i>Chemical Physics Letters</i> , 2006, 432, 213-217.   | 1.2  | 71        |
| 5  | Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016, 94, .   | 1.1  | 71        |
| 6  | Photoinduced hydrogen release from hydrogen boride sheets. <i>Nature Communications</i> , 2019, 10, 4880.   | 5.8  | 63        |
| 7  | Coexistence of Dirac cones and Kagome flat bands in a porous graphene. <i>Carbon</i> , 2016, 109, 755-763.  | 5.4  | 46        |
| 8  | Density functional study of $\text{Pt}$ adsorbed on a carbon nanotube support. <i>Physical Review B</i> , 2009, 79, .   | 3.9  | 39        |
| 9  | Direct and Indirect Exciton Dynamics in Few-Layered $\text{ReS}_2$ Revealed by Photoluminescence and Pump-Probe Spectroscopy. <i>Advanced Functional Materials</i> , 2019, 29, 1806169.                         | 7.8  | 39        |
| 10 | Effects of carbon supports on Pt nano-cluster catalyst. <i>Computational Materials Science</i> , 2008, 44, 163-166.   | 1.4  | 37        |
| 11 | Solvent-Mediated Shape Engineering of Fullerene ( $\text{C}_{60}$ ) Polyhedral Microcrystals. <i>Chemistry of Materials</i> , 2018, 30, 7146-7153.  | 3.2  | 37        |
| 12 | Size dependence of the bulk modulus of semiconductor nanocrystals from first-principles calculations. <i>Physical Review B</i> , 2010, 82, .  | 1.1  | 34        |
| 13 | Structural and electronic properties of $\text{Pt}_n$ ( $n = 3, 7, 13$ ) clusters on metallic single wall carbon nanotube. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3472-3475.             | 0.7  | 32        |
| 14 | Gate-induced electron-state tuning of $\text{MoS}_2$ : first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 135001.  | 0.7  | 30        |
| 15 | Tuning Localized Transverse Surface Plasmon Resonance in Electricity-Selected Single-Wall Carbon Nanotubes by Electrochemical Doping. <i>Physical Review Letters</i> , 2015, 114, 176807.                       | 2.9  | 30        |
| 16 | Structure and optical properties of sputter deposited pseudobrookite $\text{Fe}_2\text{TiO}_5$ thin films. <i>CrystEngComm</i> , 2019, 21, 34-40.   | 1.3  | 30        |
| 17 | Semimetallicity of free-standing hydrogenated monolayer boron from $\text{MgB}_2$ . <i>Physical Review Materials</i> , 2019, 3, .   | 2.9  | 29        |
| 18 | The Importance of Electron Correlation on Stacking Interaction of Adenine-Thymine Base-Pair Step in B-DNA: A Quantum Monte Carlo Study. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1081-1086. | 2.3  | 27        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Virtual substrate method for nanomaterials characterization. Nature Communications, 2017, 8, 15629.  | 5.8 | 25        |
| 20 | Pentadiamond: A Hard Carbon Allotrope of a Pentagonal Network of sp <sup>2</sup> and sp <sup>3</sup> C Atoms. Physical Review Letters, 2020, 125, 016001.            | 2.9 | 25        |
| 21 | Substrate-mediated interactions of Pt atoms adsorbed on single-wall carbon nanotubes: Density functional calculations. Physical Review B, 2009, 79, .                | 1.1 | 23        |
| 22 | Suppression of conductivity deterioration of copper thin films by coating with atomic-layer materials. Applied Physics Letters, 2017, 110, .                         | 1.5 | 22        |
| 23 | Highly Ordered Cobalt-Phthalocyanine Chains on Fractional Atomic Steps: One-Dimensionality and Electron Hybridization. ACS Nano, 2013, 7, 1317-1323.                 | 7.3 | 19        |
| 24 | Topological Dirac nodal loops in nonsymmorphic hydrogenated monolayer boron. Physical Review B, 2020, 101, .   | 1.1 | 19        |
| 25 | Charge Manipulation in Molecules Encapsulated Inside Single-Wall Carbon Nanotubes. Physical Review Letters, 2013, 110, 086801.                                       | 2.9 | 18        |
| 26 | Experimental Evidence of Anisotropic and Stable Charged Excitons (Trions) in Atomically Thin 2D ReS <sub>2</sub> . Advanced Functional Materials, 2019, 29, 1905961. | 7.8 | 18        |
| 27 | Chemical stability of hydrogen boride nanosheets in water. Communications Materials, 2021, 2, .  | 2.9 | 15        |
| 28 | Absence of edge states near the $120^\circ$ corners of zigzag graphene nanoribbons. Physical Review B, 2013, 87, .   | 1.1 | 14        |
| 29 | Geometric and Electronic Structures of Two-Dimensional Networks of Fused C <sub>36</sub> Fullerenes. Journal of the Physical Society of Japan, 2015, 84, 084706.     | 0.7 | 14        |
| 30 | 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        |
| 31 | Electron-state engineering of bilayer graphene by ionic molecules. Applied Physics Letters, 2012, 101, 233106.   | 1.5 | 10        |
| 32 | Influence of defects on carrier injection in carbon nanotubes with defects. Japanese Journal of Applied Physics, 2015, 54, 065101.                                   | 0.8 | 10        |
| 33 | Measurement of the Low-Energy Electron Inelastic Mean Free Path in Monolayer Graphene. Physical Review Applied, 2020, 13, .  | 1.5 | 10        |
| 34 | High-Efficiency Photoelectric Conversion in Graphene-Diamond Hybrid Structures: Model and First-Principles Calculations. Applied Physics Express, 2013, 6, 045104.   | 1.1 | 8         |
| 35 | 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         |
| 36 | Magnetic-state tuning of the rhombohedral graphite film by interlayer spacing and thickness. Surface Science, 2012, 606, 253-257.                                    | 0.8 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Band $\epsilon$ Gap Engineering of Graphene Heterostructures by Substitutional Doping with B 3 N 3. ChemPhysChem, 2018, 19, 237-242.  | 1.0 | 7         |
| 38 | Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. APL Materials, 2019, 7, 101103.   | 2.2 | 7         |
| 39 | Spiro-graphene: A two-dimensional metallic carbon allotrope of fused pentagons. Carbon, 2021, 185, 404-409.   | 5.4 | 7         |
| 40 | Origin of the n-type transport behavior of azafullerene encapsulated single-walled carbon nanotubes. Applied Physics Letters, 2011, 99, 053105.   | 1.5 | 4         |
| 41 | Electronic structures of carbon nanotubes with monovacancy under an electric field. Japanese Journal of Applied Physics, 2014, 53, 115102.  | 0.8 | 4         |
| 42 | Anomalous electrostatic potential properties in carbon nanotube thin films under a weak external electric field. Applied Physics Express, 2016, 9, 045101.  | 1.1 | 4         |
| 43 | Combined first principles and electromagnetic simulation study of n-type doped anatase $\text{TiO}_2$ for the applications in infrared surface plasmon photonics. Physical Review Materials, 2020, 4, . | 0.9 | 2         |
| 44 | Flexible Metallic Nanowires with Self-Adaptive Contacts to Semiconducting Transition-Metal Dichalcogenide Monolayers. Microscopy and Microanalysis, 2014, 20, 1760-1761.                                | 0.2 | 1         |
| 45 | Geometric and Electronic Structures of Spiro-graphene Comprising Fused Pentagons and Octagons. Journal of the Physical Society of Japan, 2022, 91, .  | 0.7 | 1         |
| 46 | Geometries and electronic structures of graphene adsorbed on $\text{SiO}_2$ (0001) surfaces: The possibility of electronic structure tuning by an insulating substrate. , 2011, , .                     |     | 0         |
| 47 | 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         |
| 48 | 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         |
| 49 | A two-dimensional magnetic carbon allotrope of hexagonally arranged fused pentagons. Applied Physics Express, 2022, 15, 035001.   | 1.1 | 0         |