# Dinh Loc Duong

List of Publications by Year
in descending order

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|---|---|---|---|
| 64<br>papers | 4,525<br>citations | 147801<br>31<br>h-index | 102487<br>66<br>g-index |
| 69<br>all docs | 69<br>docs citations | 69<br>times ranked | 8369<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | van der Waals Layered Materials: Opportunities and Challenges. ACS Nano, 2017, 11, 11803-11830. | 14.6 | 394 |
| 2 | Probing graphene grain boundaries with optical microscopy. Nature, 2012, 490, 235-239. | 27.8 | 352 |
| 3 | Confocal absorption spectral imaging of MoS<sub>2</sub>: optical transitions depending on the atomic thickness of intrinsic and chemically doped MoS<sub>2</sub>. Nanoscale, 2014, 6, 13028-13035. | 5.6 | 319 |
| 4 | Seamless Stitching of Graphene Domains on Polished Copper (111) Foil. Advanced Materials, 2015, 27, 1376-1382. | 21.0 | 314 |
| 5 | Transferred wrinkled Al2O3 for highly stretchableÂand transparent grapheneâ€“carbon nanotube transistors. Nature Materials, 2013, 12, 403-409. | 27.5 | 295 |
| 6 | van der Waals Metallic Transition Metal Dichalcogenides. Chemical Reviews, 2018, 118, 6297-6336. | 47.7 | 252 |
| 7 | Reduction-Controlled Viologen in Bisolvent as an Environmentally Stable n-Type Dopant for Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 327-331. | 13.7 | 196 |
| 8 | Charge Transport in Polycrystalline Graphene: Challenges and Opportunities. Advanced Materials, 2014, 26, 5079-5094. | 21.0 | 166 |
| 9 | Role of Anions in the AuCl<sub>3</sub>-Doping of Carbon Nanotubes. ACS Nano, 2011, 5, 1236-1242. | 14.6 | 149 |
| 10 | Ferromagnetic Order at Room Temperature in Monolayer WSe<sub>2</sub> Semiconductor via Vanadium Dopant. Advanced Science, 2020, 7, 1903076. | 11.2 | 148 |
| 11 | Ultraâ€Transparent, Flexible Singleâ€walled Carbon Nanotube Nonâ€volatile Memory Device with an Oxygenâ€decorated Graphene Electrode. Advanced Materials, 2011, 23, 1889-1893. | 21.0 | 118 |
| 12 | Alumina-coated silicon-based nanowire arrays for high quality Li-ion battery anodes. Journal of Materials Chemistry, 2012, 22, 24618. | 6.7 | 116 |
| 13 | Facile Physical Route to Highly Crystalline Graphene. Advanced Functional Materials, 2011, 21, 3496-3501. | 14.9 | 97 |
| 14 | Stranskiâ€“Krastanov and Volmerâ€“Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. Nano Letters, 2016, 16, 6403-6410. | 9.1 | 95 |
| 15 | Telluriding monolayer MoS2 and WS2 via alkali metal scooter. Nature Communications, 2017, 8, 2163. | 12.8 | 87 |
| 16 | Negative and Positive Persistent Photoconductance in Graphene. Nano Letters, 2011, 11, 4682-4687. | 9.1 | 82 |
| 17 | Transferâ€Free Growth of Fewâ€Layer Graphene by Selfâ€Assembled Monolayers. Advanced Materials, 2011, 23, 4392-4397. | 21.0 | 79 |
| 18 | Layer-controlled single-crystalline graphene film with stacking order via Cuâ€“Si alloy formation. Nature Nanotechnology, 2020, 15, 861-867. | 31.5 | 79 |

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|---|---|---|---|
| 19 | Improving the wettability of aluminum on carbon nanotubes. Acta Materialia, 2011, 59, 3313-3320. | 7.9 | 66 |
| 20 | Monodispersed SnS nanoparticles anchored on carbon nanotubes for high-retention sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7861-7869. | 10.3 | 60 |
| 21 | Raman Characterization of the Charge Density Wave Phase of 1T-TiSe<sub>2</sub>: From Bulk to Atomically Thin Layers. ACS Nano, 2017, 11, 1034-1040. | 14.6 | 58 |
| 22 | Transparent Organic P-Dopant in Carbon Nanotubes: Bis(trifluoromethanesulfonyl)imide. ACS Nano, 2010, 4, 6998-7004. | 14.6 | 56 |
| 23 | Chemically Modulated Band Gap in Bilayer Graphene Memory Transistors with High On/Off Ratio. ACS Nano, 2015, 9, 9034-9042. | 14.6 | 56 |
| 24 | Thin-layer black phosphorus/GaAs heterojunction p-n diodes. Applied Physics Letters, 2015, 106, . | 3.3 | 55 |
| 25 | Humidity-assisted selective reactivity between NO2 and SO2 gas on carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 4502. | 6.7 | 54 |
| 26 | Ultrahigh Gauge Factor in Graphene/MoS<sub>2</sub> Heterojunction Field Effect Transistor with Variable Schottky Barrier. ACS Nano, 2019, 13, 8392-8400. | 14.6 | 54 |
| 27 | Direct growth of etch pit-free GaN crystals on few-layer graphene. RSC Advances, 2015, 5, 1343-1349. | 3.6 | 46 |
| 28 | Nondestructive Characterization of Graphene Defects. Advanced Functional Materials, 2013, 23, 5183-5189. | 14.9 | 44 |
| 29 | Ab initiocomputation of the transition temperature of the charge density wave transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TiS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, . | 3.2 | 44 |
| 30 | Role of Hole Trap Sites in MoS<sub>2</sub> for Inconsistency in Optical and Electrical Phenomena. ACS Applied Materials & Interfaces, 2018, 10, 10580-10586. | 8.0 | 37 |
| 31 | UV-LIGHT-ASSISTED OXIDATIVE sp3 HYBRIDIZATION OF GRAPHENE. Nano, 2011, 06, 409-418. | 1.0 | 36 |
| 32 | Hygroscopic Effects on AuCl<sub>3</sub>-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 11618-11622. | 3.1 | 33 |
| 33 | Carbon Nanotube Doping Mechanism in a Salt Solution and Hygroscopic Effect: Density Functional Theory. ACS Nano, 2010, 4, 5430-5436. | 14.6 | 32 |
| 34 | Long-range ferromagnetic ordering in vanadium-doped WSe2 semiconductor. Applied Physics Letters, 2019, 115, . | 3.3 | 31 |
| 35 | Band-gap engineering in chemically conjugated bilayer graphene:Ab initiocalculations. Physical Review B, 2012, 85, . | 3.2 | 29 |
| 36 | Probing Multiphased Transition in Bulk MoS<sub>2</sub> by Direct Electron Injection. ACS Nano, 2019, 13, 14437-14446. | 14.6 | 29 |

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|---|---|---|---|
| 37 | Efficient Photothermoelectric Conversion in Lateral Topological Insulator Heterojunctions. Nano Letters, 2017, 17, 214-219. | 9.1 | 28 |
| 38 | High Performance Grapheneâ€“Oxideâ€“Metal Diode through Biasâ€Induced Barrier Height Modulation. Advanced Electronic Materials, 2016, 2, 1600223. | 5.1 | 25 |
| 39 | Ultrashort Verticalâ€Channel van der Waals Semiconductor Transistors. Advanced Science, 2020, 7, 1902964. | 11.2 | 24 |
| 40 | Electrically tunable quantum emitters in an ultrathin grapheneâ€“hexagonal boron nitride van der Waals heterostructure. Applied Physics Letters, 2019, 114, . | 3.3 | 23 |
| 41 | Breaking AB stacking order in graphite oxide: ab initio approach. Physical Chemistry Chemical Physics, 2010, 12, 1595. | 2.8 | 21 |
| 42 | Escalating Ferromagnetic Order via Seâ€Vacancies Near Vanadium in WSe<sub>2</sub> Monolayers. Advanced Materials, 2022, 34, e2106551. | 21.0 | 20 |
| 43 | Spectroscopic Determination of the Electrochemical Potentials of n-Type Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 5444-5449. | 3.1 | 17 |
| 44 | Lightâ€Controlled Room Temperature Ferromagnetism in Vanadiumâ€Doped Tungsten Disulfide Semiconducting Monolayers. Advanced Electronic Materials, 2021, 7, 2100030. | 5.1 | 17 |
| 45 | Doping-Mediated Lattice Engineering of Monolayer ReS<sub>2</sub> for Modulating In-Plane Anisotropy of Optical and Transport Properties. ACS Nano, 2021, 15, 13770-13780. | 14.6 | 17 |
| 46 | Revealing antiferromagnetic transition of van der Waals MnPS3 via vertical tunneling electrical resistance measurement. APL Materials, 2019, 7, . | 5.1 | 16 |
| 47 | Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. Physical Review B, 2021, 103, . | 3.2 | 16 |
| 48 | Hot Carrier Extraction from Multilayer Graphene. Nano Letters, 2016, 16, 6761-6766. | 9.1 | 15 |
| 49 | Origin of unipolarity in carbon nanotube field effect transistors. Journal of Materials Chemistry, 2012, 22, 1994-1997. | 6.7 | 14 |
| 50 | Graphene/ferroelectrics/graphene hybrid structure: Asymmetric doping of graphene layers. Applied Physics Letters, 2015, 106, . | 3.3 | 13 |
| 51 | Spin-Selective Holeâ€“Exciton Coupling in a V-Doped WSe<sub>2</sub> Ferromagnetic Semiconductor at Room Temperature. ACS Nano, 2021, 15, 20267-20277. | 14.6 | 13 |
| 52 | Gate modulation of the long-range magnetic order in a vanadium-doped WSe2 semiconductor. AIP Advances, 2020, 10, . | 1.3 | 12 |
| 53 | Probing giant Zeeman shift in vanadium-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi>Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:m via resonant magnetotunneling transport. Physical Review B, 2021, 103, . | 3.2 | 12 |
| 54 | Light-emitting Ti<sub>2</sub>N (MXene) quantum dots: synthesis, characterization and theoretical calculations. Journal of Materials Chemistry C, 2022, 10, 6508-6514. | 5.5 | 10 |

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|---|---|---|---|
| 55 | Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. ACS Applied Materials & Interfaces, 2019, 11, 42528-42533. | 8.0 | 9 |
| 56 | Li Intercalation Effects on Interface Resistances of Highâ€Speed and Lowâ€Power WSe 2 Fieldâ€Effect Transistors. Advanced Functional Materials, 2020, 30, 2003688. | 14.9 | 9 |
| 57 | Carrier transport mechanisms of reactively direct current magnetron sputtered tungsten oxide/n-type crystalline silicon heterojunction. Journal of Power Sources, 2020, 472, 228460. | 7.8 | 5 |
| 58 | Gateâ€Tunable Magnetism via Resonant Seâ€Vacancy Levels in WSe 2. Advanced Science, 2021, , 2102911. | 11.2 | 5 |
| 59 | Defectâ€Engineered Magnetic Field Dependent Optoelectronics of Vanadium Doped Tungsten Diselenide Monolayers. Advanced Optical Materials, 0, , 2102711. | 7.3 | 5 |
| 60 | Schottky-barrier quantum well in two-dimensional semiconductor nanotransistors. Materials Today Physics, 2020, 15, 100275. | 6.0 | 4 |
| 61 | Oxidize Graphene by UV-Ozone Treatment in Vacuum Chamber. Journal of Nanoscience and Nanotechnology, 2016, 16, 7968-7972. | 0.9 | 2 |
| 62 | Different mechanism of capacitance change for gas detection using semiconducting and metallic single-walled carbon nanotubes. Current Applied Physics, 2015, 15, 377-382. | 2.4 | 1 |
| 63 | V<sub>2</sub>Se: a novel antifluorite-type cubic phase with a metalâ€“metal bonding. Dalton Transactions, 2019, 48, 8556-8559. | 3.3 | 1 |
| 64 | Tuning the inhomogeneous charge transport in ZnO interfaces for ultrahigh on/off ratio top-gated field-effect-transistor arrays. Nano Research, 2020, 13, 3033-3040. | 10.4 | 1 |