# Vo Van Hoang

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 1,007 citations | 471509 17 h-index | 552781 26 g-index |
| 79 all docs | 79 docs citations | 79 times ranked | 729 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Atomic structure and rippling of amorphous two-dimensional SiC nanoribbons â€“ MD simulations. Computational Materials Science, 2022, 203, 111123. | 3.0 | 6 |
| 2 | Influences of cooling rate on formation of amorphous germanene. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114492. | 2.7 | 2 |
| 3 | Modeling glassy SiC nanoribbon by rapidly cooling from the liquid: An affirmation of appropriate potentials. Physica B: Condensed Matter, 2021, 608, 412746. | 2.7 | 7 |
| 4 | Melting of two-dimensional perfect crystalline and polycrystalline germanene. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 114021. | 2.7 | 7 |
| 5 | Two-dimensional FeC compound with square and triangle lattice structure â€“ Molecular dynamics and DFT study. Computational Materials Science, 2020, 181, 109730. | 3.0 | 4 |
| 6 | Amorphous and â€˜crystallineâ€™ penta-silicene. Philosophical Magazine, 2020, 100, 1962-1981. | 1.6 | 5 |
| 7 | Compression-induced square-triangle solid-solid phase transition in 2D simple monatomic system. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 113, 35-42. | 2.7 | 3 |
| 8 | Heating-induced phase transitions in confined amorphous tetra-silicene. Materials Research Express, 2019, 6, 085202. | 1.6 | 2 |
| 9 | Structural and thermodynamic properties of two-dimensional confined germanene: a molecular dynamics and DFT study. Materials Research Express, 2019, 6, 086411. | 1.6 | 9 |
| 10 | Tetra-SiC â€“ New allotrope of 2D silicon carbide. Computational Materials Science, 2019, 162, 236-244. | 3.0 | 8 |
| 11 | Confined tetra-silicene obtained by cooling from the melt. Computational Materials Science, 2019, 158, 406-413. | 3.0 | 11 |
| 12 | Novel pressure-induced topological phase transitions of supercooled liquid and amorphous silicene. Journal of Physics Condensed Matter, 2019, 31, 095403. | 1.8 | 4 |
| 13 | Formation of graphene on BN substrate by vapor deposition method and size effects on its structure. Physica B: Condensed Matter, 2018, 534, 26-33. | 2.7 | 4 |
| 14 | Crystallization of supercooled liquid and amorphous silicene. Journal of Non-Crystalline Solids, 2018, 487, 87-95. | 3.1 | 4 |
| 15 | How do packing defects modify the cooperative motions in supercooled liquids?. Chemical Physics, 2017, 490, 55-61. | 1.9 | 2 |
| 16 | Ironene â€“ A new 2D material. Computational Materials Science, 2017, 126, 446-452. | 3.0 | 15 |
| 17 | Formation of Two-Dimensional Crystals with Square Lattice Structure from the Liquid State. Journal of Physical Chemistry C, 2016, 120, 18340-18347. | 3.1 | 7 |
| 18 | Amorphous siliceneâ€”a view from molecular dynamics simulation. Journal of Physics Condensed Matter, 2016, 28, 195401. | 1.8 | 10 |

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|---|---|---|---|
| 19 | New Scenario of Dynamical Heterogeneity in Supercooled Liquid and Glassy States of 2D Monatomic System. Journal of Physical Chemistry B, 2015, 119, 15752-15757. | 2.6 | 6 |
| 20 | Melting of crystalline Si nanoparticle investigated by simulation. European Physical Journal D, 2015, 69, 1. | 1.3 | 6 |
| 21 | Substrate effects on glass formation in simple monatomic supercooled liquids. Chemical Physics, 2015, 447, 1-9. | 1.9 | 1 |
| 22 | Cooling rate effects on structure of amorphous graphene. Physica B: Condensed Matter, 2015, 456, 50-56. | 2.7 | 10 |
| 23 | Free-standing silicene obtained by cooling from 2D liquid Si: structure and thermodynamic properties. Journal Physics D: Applied Physics, 2014, 47, 495303. | 2.8 | 14 |
| 24 | Melting of crystalline silicon thin films. Computational Materials Science, 2014, 89, 97-101. | 3.0 | 9 |
| 25 | â€˜Graphenizationâ€™ of 2D simple monatomic liquids. Journal of Physics Condensed Matter, 2014, 26, 205101. | 1.8 | 7 |
| 26 | Crystallization of supercooled liquid and glassy Fe thin films. Computational Materials Science, 2014, 95, 491-501. | 3.0 | 5 |
| 27 | Melting of Mesoscale Lennard-Jones Crystals with Free Surfaces. Journal of the Physical Society of Japan, 2013, 82, 064601. | 1.6 | 2 |
| 28 | Molecular dynamics simulation of melting of fcc Lennard-Jones nanoparticles. European Physical Journal D, 2013, 67, 1. | 1.3 | 14 |
| 29 | Structural properties of simulated liquid GanAsm. Computational Materials Science, 2012, 54, 183-187. | 3.0 | 0 |
| 30 | Amorphous nanoparticles â€" Experiments and computer simulations. Physics Reports, 2012, 518, 81-140. | 25.6 | 63 |
| 31 | Melting of monatomic glass with free surfaces. Journal of Chemical Physics, 2012, 136, 104506. | 3.0 | 14 |
| 32 | Atomic mechanism of homogeneous melting of bcc Fe at the limit of superheating. Physica B: Condensed Matter, 2012, 407, 978-984. | 2.7 | 17 |
| 33 | Glass Formation and Thermodynamics of Supercooled Monatomic Liquids. Journal of Physical Chemistry B, 2011, 115, 6946-6956. | 2.6 | 32 |
| 34 | Atomic mechanism of glass-to-liquid transition in simple monatomic glasses. Philosophical Magazine, 2011, 91, 3443-3455. | 1.6 | 17 |
| 35 | Structural defects and thermodynamics of vitreous GeO2 nanoparticles. Current Applied Physics, 2011, 11, 303-310. | 2.4 | 2 |
| 36 | Atomic mechanism of the heating-induced phase transitions of the simple monatomic glasses. Physica B: Condensed Matter, 2011, 406, 3653-3659. | 2.7 | 9 |

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|---|---|---|---|
| 37 | Pressure-induced structural and dynamic transitions in stimulated liquid aluminosilicate nanoparticles. Physics and Chemistry of Liquids, 2011, 49, 81-90. | 1.2 | 2 |
| 38 | Glass of monatomic Lennardâ€“Jones system at nanoscale. Physica B: Condensed Matter, 2010, 405, 1908-1914. | 2.7 | 17 |
| 39 | Atomic mechanism of glass formation in supercooled monatomic liquids. Solid State Communications, 2010, 150, 1971-1975. | 1.9 | 12 |
| 40 | Molecular dynamics simulation of diffusion in liquid gallium arsenide. Computational Materials Science, 2010, 49, S221-S224. | 3.0 | 2 |
| 41 | Local icosahedral order and thermodynamics of simulated amorphous Fe. Physica B: Condensed Matter, 2009, 404, 340-346. | 2.7 | 28 |
| 42 | Molecular dynamics simulation of liquid and amorphous Fe nanoparticles. Nanotechnology, 2009, 20, 295703. | 2.6 | 22 |
| 43 | Static and thermodynamic properties of liquid and amorphous Fe<sub>2</sub>O<sub>3</sub>nanoparticles. Journal of Physics Condensed Matter, 2009, 21, 075103. | 1.8 | 10 |
| 44 | Structural properties of simulated amorphous GeO<sub>2</sub> nanoparticles. Physica Status Solidi (B): Basic Research, 2008, 245, 1505-1511. | 1.5 | 8 |
| 45 | Cooling rate effects on structure and thermodynamics of amorphous nanoparticles. Applied Surface Science, 2008, 254, 7531-7534. | 6.1 | 6 |
| 46 | Microstructural analysis of liquid and amorphous SiO2 nanoparticles. Physica B: Condensed Matter, 2008, 403, 3199-3205. | 2.7 | 8 |
| 47 | Glasses of simple liquids with double-well interaction potential. Physica B: Condensed Matter, 2008, 403, 3910-3915. | 2.7 | 21 |
| 48 | Molecular dynamics simulations of simple monatomic amorphous nanoparticles. Physical Review B, 2008, 77, . | 3.2 | 19 |
| 49 | The glass transition and thermodynamics of liquid and amorphous TiO<sub>2</sub>nanoparticles. Nanotechnology, 2008, 19, 105706. | 2.6 | 40 |
| 50 | Cooling-rate effects in simple monatomic amorphous nanoparticles. Philosophical Magazine, 2008, 88, 1461-1475. | 1.6 | 4 |
| 51 | GLASS FORMATION IN SIMULATED HIGH-DENSITY Al2O3Â·2SiO2. International Journal of Modern Physics B, 2008, 22, 205-218. | 2.0 | 1 |
| 52 | Surface structure and structural point defects of liquid and amorphous aluminosilicate nanoparticles. Journal of Physics Condensed Matter, 2008, 20, 265005. | 1.8 | 4 |
| 53 | Pressure-induced structural transition in amorphous TiO<sub>2</sub>nanoparticles and in the bulk via molecular dynamics simulation. Journal Physics D: Applied Physics, 2007, 40, 7454-7461. | 2.8 | 27 |
| 54 | Structural properties of simulated liquid and amorphous aluminium silicates. Physica Scripta, 2007, 76, 165-172. | 2.5 | 16 |

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|---|---|---|---|
| 55 | The glass transition and diffusion in simulated liquid TiO<sub>2</sub>. Journal of Physics Condensed Matter, 2007, 19, 416109. | 1.8 | 3 |
| 56 | Diffusion and dynamical heterogeneity in simulated liquid SiO2under high pressure. Journal of Physics Condensed Matter, 2007, 19, 116104. | 1.8 | 16 |
| 57 | Finite Size Effects on Static and Dynamic Properties of Non-periodic Boundary Condition Supercooled Liquids. Journal of the Physical Society of Japan, 2007, 76, 114602. | 1.6 | 5 |
| 58 | Liquidâ€“liquid phase transition and anomalous diffusion in simulated liquid GeO2. Physica B: Condensed Matter, 2007, 390, 17-22. | 2.7 | 22 |
| 59 | Dynamical heterogeneity and diffusion in high-density Al2O3Â·2SiO2 melts. Physica B: Condensed Matter, 2007, 400, 278-286. | 2.7 | 29 |
| 60 | Diffusion in simulated liquid GeO2 under pressure. Physica B: Condensed Matter, 2007, 394, 39-45. | 2.7 | 12 |
| 61 | Local environments of oxygen in Al2O3SiO2 melts. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 499-503. | 2.1 | 16 |
| 62 | Pressure- and temperature-induced structural changes in simulated amorphous Al2O3Â·2SiO2. Physica Status Solidi (B): Basic Research, 2007, 244, 3074-3085. | 1.5 | 2 |
| 63 | Structural properties of simulated liquid and amorphous TiO2. Physica Status Solidi (B): Basic Research, 2007, 244, 1280-1287. | 1.5 | 67 |
| 64 | Molecular Dynamics Simulation of Amorphous SiO<sub>2</sub> Nanoparticles. Journal of Physical Chemistry B, 2007, 111, 12649-12656. | 2.6 | 72 |
| 65 | Liquidâ€“liquid phase transition in simulated liquid Al2O3Â·2SiO2. Physica Scripta, 2006, 74, 697-701. | 2.5 | 9 |
| 66 | Temperature-induced phase transition in simulated amorphous Al2O3. Physica Status Solidi (B): Basic Research, 2006, 243, 416-423. | 1.5 | 6 |
| 67 | Tetrahedral â†” octahedral network structure transition in simulated vitreous SiO2. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 246-250. | 2.1 | 15 |
| 68 | COOLING RATE EFFECTS ON DYNAMICS IN SUPERCOOLED Al2O3. International Journal of Modern Physics B, 2006, 20, 947-967. | 2.0 | 7 |
| 69 | About an order of liquidâ€“liquid phase transition in simulated liquid Al2O3. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 335, 439-443. | 2.1 | 26 |
| 70 | Annealing effects on structure in amorphous Al2O3 models. Physica B: Condensed Matter, 2005, 364, 225-232. | 2.7 | 12 |
| 71 | Simulation of aging effects on dynamics in liquid Al2O3. Physica B: Condensed Matter, 2005, 367, 210-215. | 2.7 | 1 |
| 72 | Dynamical heterogeneities in supercooled Al2O3. Journal of Physics Condensed Matter, 2005, 17, 5179-5185. | 1.8 | 6 |

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| 73 | Computer simulation of the structural transformation in liquid Al2O3. Journal of Physics Condensed Matter, 2005, 17, 3025-3033. | 1.8 | 13 |
| 74 | Computer simulation of the structural and thermodynamics properties of liquid and amorphous SiO2. Physica B: Condensed Matter, 2004, 348, 249-255. | 2.7 | 28 |
| 75 | Computer simulation of the effects of B and P concentrations on microstructure in amorphous Feâ€“B and Feâ€“P alloys. Physica B: Condensed Matter, 2004, 348, 347-352. | 2.7 | 13 |
| 76 | Structure and diffusion simulation of liquid Al2O3. Physica B: Condensed Matter, 2004, 352, 342-352. | 2.7 | 13 |
| 77 | Simulation of structural properties and structural transformation of amorphous Al2O3. Physica B: Condensed Matter, 2004, 352, 73-85. | 2.7 | 14 |
| 78 | Computer Simulation of The Effects of B, P Concentration on The Pore Distribution in The Amorphous Co-B, Co-P Alloys. Journal of Metastable and Nanocrystalline Materials, 2003, 18, 43-48. | 0.1 | 8 |
| 79 | Simulation of Structural and Magnetic Inhomogeneities of Amorphous Ni-P Alloys. Journal of Metastable and Nanocrystalline Materials, 2001, 9, 5-20. | 0.1 | 7 |