# Nguyen Thanh Tung

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 94 papers | 676 citations | 14 h-index | 20 g-index |
| 104 ext. papers | 861 ext. citations | 2.8 avg, IF | 4.29 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 94 | Unbinding ligands from SARS-CoV-2 Mpro via umbrella sampling simulations.. *Royal Society Open Science*, **2022**, 9, 211480 | 3.3 | 0 |
| 93 | Insights into the binding and covalent inhibition mechanism of PF-07321332 to SARS-CoV-2 M.. *RSC Advances*, **2022**, 12, 3729-3737 | 3.7 | 2 |
| 92 | DFT investigation of Au9M2+ nanoclusters (M = Sc-Ni): The magnetic superatomic behavior of Au9Cr2+. *Chemical Physics Letters*, **2022**, 793, 139451 | 2.5 | 0 |
| 91 | Green synthesis of an Ag nanoparticle-decorated graphene nanoplatelet nanocomposite by using Cleistocalyx operculatus leaf extract for antibacterial applications. *Nano Structures Nano Objects*, **2022**, 29, 100810 | 5.6 | 0 |
| 90 | Improving ligand-ranking of AutoDock Vina by changing the empirical parameters. *Journal of Computational Chemistry*, **2022**, 43, 160-169 | 3.5 | 6 |
| 89 | Advances and prospects of porphyrin-based nanomaterials via self-assembly for photocatalytic applications in environmental treatment. *Coordination Chemistry Reviews*, **2022**, 463, 214543 | 23.2 | 1 |
| 88 | First-row transition metal doped germanium clusters GeM: some remarkable superhalogens.. *RSC Advances*, **2022**, 12, 13487-13499 | 3.7 | 0 |
| 87 | Transient transmission of THz metamaterial antennas by impact ionization in a silicon substrate. *Optics Express*, **2021**, 29, 170-181 | 3.3 | 2 |
| 86 | The binary aluminum scandium clusters Al Sc with + = 13: when is the icosahedron retained?. *RSC Advances*, **2021**, 11, 40072-40084 | 3.7 | 0 |
| 85 | Thermodynamics and kinetics in antibody resistance of the 501Y.V2 SARS-CoV-2 variant.. *RSC Advances*, **2021**, 11, 33438-33446 | 3.7 | 1 |
| 84 | Flexible Broadband Metamaterial Perfect Absorber Based on Graphene-Conductive Inks. *Photonics*, **2021**, 8, 440 | 2.2 | 2 |
| 83 | Unifying approach to multilayer metamaterials absorber for bandwidth enhancement. *Optics Communications*, **2021**, 485, 126725 | 2 | 3 |
| 82 | Design, fabrication, and characterization of an electromagnetic harvester using polarization-insensitive metamaterial absorbers. *Journal Physics D: Applied Physics*, **2021**, 54, 345502 | 3 | 3 |
| 81 | Terahertz cut-wire-pair metamaterial absorber. *Journal of Applied Physics*, **2021**, 130, 013102 | 2.5 | 2 |
| 80 | Facile synthesis of in situ CNT/WO3H2O nanoplate composites for adsorption and photocatalytic applications under visible light irradiation. *Semiconductor Science and Technology*, **2021**, 36, 095010 | 1.8 | 1 |
| 79 | Binding of inhibitors to the monomeric and dimeric SARS-CoV-2 Mpro.. *RSC Advances*, **2021**, 11, 2926-2934 | 3.7 | 13 |
| 78 | Dual-Polarized Wide-Angle Energy Harvester for Self-Powered IoT Devices. *IEEE Access*, **2021**, 9, 103376-103384 | 3.9 | 1 |

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| 77 | Origami-based stretchable bi-functional metamaterials: reflector and broadband absorber. *Journal Physics D: Applied Physics*, **2021**, 54, 165111 | 3 | 3 |
| 76 | Systematic Investigation of the Structure, Stability, and Spin Magnetic Moment of CrM Clusters (M = Cu, Ag, Au, and = 2-20) by DFT Calculations. *ACS Omega*, **2021**, 6, 20341-20350 | 3.9 | 1 |
| 75 | Graphene-integrated hybridized metamaterials for wide-angle tunable THz absorbers. *Photonics and Nanostructures - Fundamentals and Applications*, **2021**, 45, 100924 | 2.6 | 3 |
| 74 | Self-Assembly of Porphyrin Nanofibers on ZnO Nanoparticles for the Enhanced Photocatalytic Performance for Organic Dye Degradation. *ACS Omega*, **2021**, 6, 23203-23210 | 3.9 | 3 |
| 73 | Active control of the hybridization effect of near-field coupled resonators in metamaterial for a tunable negative refractive index at terahertz frequencies. *Journal of Physics and Chemistry of Solids*, **2021**, 156, 110173 | 3.9 | 1 |
| 72 | Synthesis and Broadband Absorption of Fe-Based Nanoparticles in the Ku-Band. *Journal of Electronic Materials*, **2021**, 50, 2157-2163 | 1.9 | 1 |
| 71 | Dual-Band, Polarization-Insensitive, Ultrathin and Flexible Metamaterial Absorber Based on High-Order Magnetic Resonance. *Photonics*, **2021**, 8, 574 | 2.2 | 0 |
| 70 | Scalable Fabrication of Modified Graphene Nanoplatelets as an Effective Additive for Engine Lubricant Oil. *Nanomaterials*, **2020**, 10, | 5.4 | 8 |
| 69 | Polarization-insensitive electromagnetically-induced transparency in planar metamaterial based on coupling of ring and zigzag spiral resonators. *Modern Physics Letters B*, **2020**, 34, 2050093 | 1.6 | 6 |
| 68 | Estimation of the ligand-binding free energy of checkpoint kinase 1 via non-equilibrium MD simulations. *Journal of Molecular Graphics and Modelling*, **2020**, 100, 107648 | 2.8 | 7 |
| 67 | Facile fabrication of graphene@Fe-Ti binary oxide nanocomposite from ilmenite ore: An effective photocatalyst for dye degradation under visible light irradiation. *Journal of Water Process Engineering*, **2020**, 37, 101474 | 6.7 | 7 |
| 66 | Photofragmentation Patterns of Cobalt Oxide Cations CoO ( = 5-9, = 4-13): From Oxygen-Deficient to Oxygen-Rich Species. *Journal of Physical Chemistry A*, **2020**, 124, 7333-7339 | 2.8 | 1 |
| 65 | Effective estimation of the inhibitor affinity of HIV-1 protease a modified LIE approach.. *RSC Advances*, **2020**, 10, 7732-7739 | 3.7 | 4 |
| 64 | Fine Tuning of the Copper Active Site in Polysaccharide Monooxygenases. *Journal of Physical Chemistry B*, **2020**, 124, 1859-1865 | 3.4 | 2 |
| 63 | Realization for dual-band high-order perfect absorption, based on metamaterial. *Journal Physics D: Applied Physics*, **2020**, 53, 105502 | 3 | 6 |
| 62 | Oversampling Free Energy Perturbation Simulation in Determination of the Ligand-Binding Free Energy. *Journal of Computational Chemistry*, **2020**, 41, 611-618 | 3.5 | 22 |
| 61 | Assessing potential inhibitors of SARS-CoV-2 main protease from available drugs using free energy perturbation simulations. *RSC Advances*, **2020**, 10, 40284-40290 | 3.7 | 12 |
| 60 | Rapid prediction of possible inhibitors for SARS-CoV-2 main protease using docking and FPL simulations.. *RSC Advances*, **2020**, 10, 31991-31996 | 3.7 | 19 |

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| 59 | Controlling the absorption strength in bidirectional terahertz metamaterial absorbers with patterned graphene. *Computational Materials Science*, **2019**, 166, 276-281 | 3.2 | 14 |
| 58 | Structure and electrochemical property of amorphous molybdenum selenide H2-evolving catalysts prepared by a solvothermal synthesis. *International Journal of Hydrogen Energy*, **2019**, 44, 13273-13283 | 6.7 | 5 |
| 57 | C-Terminal Plays as the Possible Nucleation of the Self-Aggregation of the S-Shape A Tetramer in Solution: Intensive MD Study. *ACS Omega*, **2019**, 4, 11066-11073 | 3.9 | 6 |
| 56 | Large-area cost-effective lithography-free infrared metasurface absorbers for molecular detection. *APL Materials*, **2019**, 7, 071102 | 5.7 | 6 |
| 55 | Prediction of AChE-ligand affinity using the umbrella sampling simulation. *Journal of Molecular Graphics and Modelling*, **2019**, 93, 107441 | 2.8 | 16 |
| 54 | Absorption Behavior of Graphene Nanoplates toward Oils and Organic Solvents in Contaminated Water. *Sustainability*, **2019**, 11, 7228 | 3.6 | 3 |
| 53 | Electrically tunable graphene-based metamaterials: A brief review. *Modern Physics Letters B*, **2019**, 33, 1950404 | 1.6 | 3 |
| 52 | and determination of glutaminyl cyclase inhibitors.. *RSC Advances*, **2019**, 9, 29619-29627 | 3.7 | 8 |
| 51 | Characterizations of an infrared polarization-insensitive metamaterial perfect absorber and its potential in sensing applications. *Photonics and Nanostructures - Fundamentals and Applications*, **2018**, 28, 100-105 | 2.6 | 18 |
| 50 | The influences of E22Q mutant on solvated 3A peptide: A REMD study. *Journal of Molecular Graphics and Modelling*, **2018**, 83, 122-128 | 2.8 | 4 |
| 49 | Ultimate Manipulation of Magnetic Moments in the Golden Tetrahedron Au20 with a Substitutional 3d Impurity. *Journal of Physical Chemistry C*, **2018**, 122, 16256-16264 | 3.8 | 5 |
| 48 | A Novel Wideband Circularly Polarized Antenna for RF Energy Harvesting in Wireless Sensor Nodes. *International Journal of Antennas and Propagation*, **2018**, 2018, 1-9 | 1.2 | 15 |
| 47 | Production of photonic nanojets by using pupil-masked 3D dielectric cuboid. *Journal Physics D: Applied Physics*, **2017**, 50, 175102 | 3 | 25 |
| 46 | A DFT investigation on geometry and chemical bonding of isoelectronic Si8N6V Si8N6Cr, and Si8N6Mn+ clusters. *Chemical Physics Letters*, **2017**, 685, 410-415 | 2.5 | 1 |
| 45 | A theoretical investigation on Si nMn2+Clusters ( n = 1 10): Geometry, stability, and magnetic properties. *Computational and Theoretical Chemistry*, **2017**, 1117, 124-129 | 2 | 3 |
| 44 | AuM (M=Cr, Mn, and Fe) as magnetic copies of the golden pyramid. *Scientific Reports*, **2017**, 7, 16086 | 4.9 | 11 |
| 43 | Hybrid semiconductor dielectric metamaterial modulation for switchable bi-directional THz absorbers. *Optics Communications*, **2017**, 383, 244-249 | 2 | 12 |
| 42 | A Systematic Investigation on CrCun Clusters with n = 9-16: Noble Gas and Tunable Magnetic Property. *Journal of Physical Chemistry A*, **2016**, 120, 7335-43 | 2.8 | 11 |

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| 41 | Symmetry-Breaking Metamaterials Enabling Broadband Negative Permeability. *Journal of Electronic Materials*, **2016**, 45, 2547-2552 | 1.9 | 10 |
| 40 | Structure, magnetism, and dissociation energy of small bimetallic cobalt-chromium oxide cluster cations: A density-functional-theory study. *Chemical Physics Letters*, **2016**, 643, 77-83 | 2.5 | 4 |
| 39 | Dynamics of polystyrene beads linking to DNA molecules under single optical tweezers: A numerical study using full normalized Langevin equation. *Journal of Nonlinear Optical Physics and Materials*, **2016**, 25, 1650054 | 0.8 | 3 |
| 38 | Comment on "Analysis of single-layer metamaterial absorber with reflection theory" [J. Appl. Phys. 117, 154906 (2015)]. *Journal of Applied Physics*, **2016**, 119, 096101 | 2.5 | 1 |
| 37 | Taming electromagnetic metamaterials for isotropic perfect absorbers. *AIP Advances*, **2015**, 5, 077119 | 1.5 | 5 |
| 36 | Characterizations of a thermo-tunable broadband fishnet metamaterial at THz frequencies. *Computational Materials Science*, **2015**, 103, 189-193 | 3.2 | 16 |
| 35 | Isotropic metamaterial absorber using cut-wire-pair structures. *Applied Physics Express*, **2015**, 8, 032001 | 2.4 | 14 |
| 34 | Broadband negative permeability using hybridized metamaterials: Characterization, multiple hybridization, and terahertz response. *Journal of Applied Physics*, **2014**, 116, 083104 | 2.5 | 12 |
| 33 | Polarization dependence of the metamagnetic resonance of cut-wire-pair structure by using plasmon hybridization. *Journal of the Korean Physical Society*, **2014**, 65, 70-73 | 0.6 | 3 |
| 32 | Influence of Cr doping on the stability and structure of small cobalt oxide clusters. *Journal of Chemical Physics*, **2014**, 141, 044311 | 3.9 | 14 |
| 31 | Improved field post-processing for a Stern–Gerlach magnetic deflection magnet. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2014**, 27, 472-484 | 1 | 2 |
| 30 | Dopant dependent stability of Co n TM+ (TM = Ti, V, Cr, and Mn) clusters. *Applied Physics B: Lasers and Optics*, **2014**, 114, 497-502 | 1.9 | 5 |
| 29 | Photofragmentation of mass-selected vanadium doped cobalt cluster cations. *European Physical Journal D*, **2013**, 67, 1 | 1.3 | 8 |
| 28 | Thermally tunable magnetic metamaterials at THz frequencies. *Journal of Optics (United Kingdom)*, **2013**, 15, 075101 | 1.7 | 22 |
| 27 | Mass-selected photodissociation studies of AlPbn+ clusters (n = 7–16): Evidence for the extraordinary stability of AlPb10+ and AlPb12+. *Physical Review B*, **2013**, 87, | 3.3 | 20 |
| 26 | Design of a Strong Gradient Magnet for the Deflection of Nanoclusters. *IEEE Transactions on Applied Superconductivity*, **2012**, 22, 3700604-3700604 | 1.8 | 4 |
| 25 | Broadband Negative Permeability by Hybridized Cut-Wire Pair Metamaterials. *Applied Physics Express*, **2012**, 5, 112001 | 2.4 | 12 |
| 24 | Design, fabrication and characterization of a perfect absorber using simple cut-wire metamaterials. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2012**, 3, 045014 | 1.6 | 2 |

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| 23 | MULTI-PLASMON RESONANCES SUPPORTING THE NEGATIVE REFRACTIVE INDEX IN "SINGLE-ATOM" METAMATERIALS. *Journal of Nonlinear Optical Physics and Materials*, **2012**, 21, 1250019 | 0.8 | |
| 22 | Characterization and electromagnetic response of a ?-shaped metamaterial. *European Physical Journal B*, **2011**, 81, 263-268 | 1.2 | 1 |
| 21 | Strong tie between cut-wire pair and continuous wire in combined-structure metamaterials. *Optics Communications*, **2011**, 284, 919-924 | 2 | 2 |
| 20 | Comment on "Antisymmetric resonant mode and negative refraction in double-ring resonators under normal-to-plane incidence". *Physical Review E*, **2011**, 83, 038601 | 2.4 | 1 |
| 19 | Computational studies of a cut-wire pair and combined metamaterials. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2011**, 2, 033001 | 1.6 | 0 |
| 18 | Dependence of transmittance and group index on the coupling strength between constituents of a metamaterial. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2011**, 2, 015003 | 1.6 | 1 |
| 17 | Highly dispersive transparency in coupled metamaterials. *Journal of Optics (United Kingdom)*, **2010**, 12, 115102 | 1.7 | 29 |
| 16 | The electromagnetic response of different metamaterial structures. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2010**, 1, 045016 | 1.6 | 4 |
| 15 | Comprehensive effective-medium analysis for the transmission properties of combined metamaterials. *Computational Materials Science*, **2010**, 49, S284-S286 | 3.2 | 1 |
| 14 | Left-handed transmission in a simple cut-wire pair structure. *Journal of Applied Physics*, **2010**, 107, 023532 | 2.5 | 27 |
| 13 | Perfect impedance-matched left-handed behavior in combined metamaterial. *European Physical Journal B*, **2010**, 74, 47-51 | 1.2 | 14 |
| 12 | Triple negative permeability band in plasmon-hybridized cut-wire-pair metamaterials. *Optics Communications*, **2010**, 283, 4303-4306 | 2 | 2 |
| 11 | Detailed Numerical Study on Cut-wire Pair Structure. *Journal of the Korean Physical Society*, **2010**, 56, 1291-1297 | 0.6 | 5 |
| 10 | Influence of lattice parameters on the resonance frequencies of a cut-wire-pair medium. *Journal of Applied Physics*, **2009**, 105, 113102 | 2.5 | 20 |
| 9 | IMPACT OF GEOMETRICAL PARAMETERS ON TRANSMISSION PROPERTIES OF CUT-WIRE PAIR STRUCTURES. *Journal of Nonlinear Optical Physics and Materials*, **2009**, 18, 489-499 | 0.8 | 3 |
| 8 | Effect of the dielectric layer thickness on the electromagnetic response of cut-wire-pair and combined structures. *Journal Physics D: Applied Physics*, **2009**, 42, 115404 | 3 | 10 |
| 7 | Effects of the Electric Component on Combined Metamaterial Structure. *IEEE Transactions on Magnetics*, **2009**, 45, 4310-4313 | 2 | 4 |
| 6 | Transmission properties of electromagnetic metamaterials: From split-ring resonator to fishnet structure. *Optical Review*, **2009**, 16, 578-582 | 0.9 | 2 |

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| 5 | Influence of the dielectric-spacer thickness on the left-handed behavior of fishnet metamaterial structure. *Photonics and Nanostructures - Fundamentals and Applications*, **2009**, 7, 206-211 | 2.6 | 7 |
| 4 | Single- and double-negative refractive indices of combined metamaterial structure. *Journal of Applied Physics*, **2009**, 106, 053109 | 2.5 | 33 |
| 3 | Metamaterials: Detailed parametric studies on cut-wire pair and combined structure. *Journal of Physics: Conference Series*, **2009**, 187, 012015 | 0.3 | 1 |
| 2 | Dependence of the distance between cut-wire-pair layers on resonance frequencies. *Optics Express*, **2008**, 16, 5934-41 | 3.3 | 40 |
| 1 | Dual-band ambient energy harvesting systems based on metamaterials for self-powered indoorwireless sensor nodes. *International Journal of Microwave and Wireless Technologies*,1-9 | 0.8 | 0 |