

Thanh-Huy Pham

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,244
citations

430874

18
h-index

454955

30
g-index

87
all docs

87
docs citations

87
times ranked

1734
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis of oleic acid-stabilized silver nanoparticles and analysis of their antibacterial activity. <i>Materials Science and Engineering C</i> , 2010, 30, 910-916. | 7.3 | 103 |
| 2 | Green synthesis of finely-dispersed highly bactericidal silver nanoparticles via modified Tollens technique. <i>Current Applied Physics</i> , 2010, 10, 910-916. | 2.4 | 73 |
| 3 | Mixed SnO ₂ /TiO ₂ included with carbon nanotubes for gas-sensing application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 258-263. | 2.7 | 67 |
| 4 | Surface oxygen vacancies of ZnO: A facile fabrication method and their contribution to the photoluminescence. <i>Journal of Alloys and Compounds</i> , 2019, 791, 722-729. | 5.5 | 63 |
| 5 | Near-infrared emission from ZnO nanorods grown by thermal evaporation. <i>Journal of Luminescence</i> , 2014, 156, 199-204. | 3.1 | 44 |
| 6 | Magnetic properties of sol-gel synthesized C-doped ZnO nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 668, 87-90. | 5.5 | 37 |
| 7 | Effects of carbon on optical properties of ZnO powder. <i>Journal of Luminescence</i> , 2016, 174, 6-10. | 3.1 | 35 |
| 8 | Photoluminescent properties of red-emitting phosphor BaMgAl ₁₀ O ₁₇ :Cr ³⁺ for plant growth LEDs. <i>Optical Materials</i> , 2020, 108, 110207. | 3.6 | 35 |
| 9 | Inclusion of SWCNTs in Nb/Pt co-doped TiO ₂ thin-film sensor for ethanol vapor detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2950-2958. | 2.7 | 34 |
| 10 | Enhanced Photoelectrochemical Activity of the TiO ₂ /ITO Nanocomposites Grown onto Single-Walled Carbon Nanotubes at a Low Temperature by Nanocluster Deposition. <i>Advanced Materials</i> , 2011, 23, 5557-5562. | 21.0 | 33 |
| 11 | Co-precipitation synthesis and optical properties of green-emitting Ba ₂ MgSi ₂ O ₇ :Eu ²⁺ phosphor. <i>Journal of Luminescence</i> , 2014, 147, 358-362. | 3.1 | 30 |
| 12 | A high quantum efficiency plant growth LED by using a deep-red-emitting $\text{BaMgAl}_{10}\text{O}_{17}:\text{Cr}^{3+}$ phosphor. <i>Dalton Transactions</i> , 2021, 50, 12570-12582. | 3.3 | 28 |
| 13 | Novel silver nanoparticles: synthesis, properties and applications. <i>International Journal of Nanotechnology</i> , 2011, 8, 278. | 0.2 | 26 |
| 14 | A magnetic sensor using a 2D van der Waals ferromagnetic material. <i>Scientific Reports</i> , 2020, 10, 4789. | 3.3 | 23 |
| 15 | Origin of Rashba Spin-Orbit Coupling in 2D and 3D Lead Iodide Perovskites. <i>Scientific Reports</i> , 2020, 10, 4964. | 3.3 | 23 |
| 16 | Fabrication of a silicon nanostructure-based light emitting device. <i>Journal of Family Business Management</i> , 2010, 1, 025006. | 3.4 | 22 |
| 17 | Facile synthesis of single phase $\text{BaMgAl}_{10}\text{O}_{17}:\text{Mn}^{2+}$ phosphor via high-energy planetary ball milling and post-annealing method. <i>Journal of Luminescence</i> , 2019, 215, 116612. | 3.1 | 21 |
| 18 | Photoluminescence characteristics of as-synthesized and annealed ZnS:Cu,Al nanocrystals. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011, 2, 035008. | 1.5 | 19 |

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|----|--|------|-----------|
| 19 | Deep Red Emitting MgAl ₂ O ₄ :Cr ³⁺ Phosphor for Solid State Lighting. Journal of Electronic Materials, 2019, 48, 5891-5899. | 2.2 | 19 |
| 20 | Er ³⁺ /Yb ³⁺ -activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2009, 355, 1176-1179. | 3.1 | 18 |
| 21 | Mn ²⁺ -doped Zn ₂ SnO ₄ green phosphor for WLED applications. Journal of Luminescence, 2020, 227, 117522. | 3.1 | 18 |
| 22 | Local Structure and Chemistry of Doped ZnO@C Core-Shell Nanostructures with Room-Temperature Ferromagnetism. Advanced Functional Materials, 2018, 28, 1704567. | 14.9 | 17 |
| 23 | One-dimensional protuberant optically active ZnO structure fabricated by oxidizing ZnS nanowires. Materials Letters, 2010, 64, 1650-1652. | 2.6 | 16 |
| 24 | Structural and optical properties of Si-nanoclusters embedded in silicon dioxide. Physica B: Condensed Matter, 2006, 376-377, 868-871. | 2.7 | 14 |
| 25 | Synthesis of Y ₂ O ₃ :Eu ³⁺ micro- and nanophosphors by sol-gel process. Journal of Physics: Conference Series, 2009, 187, 012074. | 0.4 | 14 |
| 26 | Enhancing the luminescence of Eu ³⁺ /Eu ²⁺ ion-doped hydroxyapatite by fluoridation and thermal annealing. Luminescence, 2017, 32, 817-823. | 2.9 | 14 |
| 27 | Hydrothermal synthesis, structure, and photocatalytic properties of SnO ₂ /rGO nanocomposites with different GO concentrations. Materials Research Express, 2018, 5, 095506. | 1.6 | 14 |
| 28 | Emission-tunable Mn-doped ZnS/ZnO heterostructure nanobelts for UV-pump WLEDs. Optical Materials, 2021, 121, 111587. | 3.6 | 14 |
| 29 | Synthesis and Optical Properties of ZnS Nanostructures. Journal of the Korean Physical Society, 2008, 52, 1562-1565. | 0.7 | 14 |
| 30 | Strong Rashba-Dresselhaus Effect in Nonchiral 2D Ruddlesden-Popper Perovskites. Advanced Optical Materials, 2022, 10, 2101232. | 7.3 | 14 |
| 31 | Complexes of gold and platinum with hydrogen in silicon. Physica B: Condensed Matter, 2001, 302-303, 233-238. | 2.7 | 13 |
| 32 | Synthesis and optical properties of red/blue-emitting Sr ₂ MgSi ₂ O ₇ :Eu ³⁺ /Eu ²⁺ phosphors for white LED. Journal of Science: Advanced Materials and Devices, 2016, 1, 204-208. | 3.1 | 13 |
| 33 | Structural evolution and optical properties of oxidized ZnS microrods. Journal of Alloys and Compounds, 2016, 676, 150-155. | 5.5 | 13 |
| 34 | Excitation energy dependence of the life time of orange emission from Mn-doped ZnS nanocrystals. Journal of Luminescence, 2018, 199, 39-44. | 3.1 | 13 |
| 35 | Correlation length in a generalized two-dimensional XY model. Physical Review B, 2018, 98, . | 3.2 | 13 |
| 36 | Synthesis and thermoelectric properties of Ti-substituted (Hf _{0.5} Zr _{0.5}) _{1-x} Ti _x NiSn _{0.998} Sb _{0.002} Half-Heusler compounds. Journal of Alloys and Compounds, 2019, 773, 1141-1145. | 5.5 | 13 |

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|----|--|-----|-----------|
| 37 | Single-composition Al ³⁺ -singly doped ZnO phosphors for UV-pumped warm white light-emitting diode applications. Dalton Transactions, 2021, 50, 9037-9050. | 3.3 | 12 |
| 38 | Electronic and atomic structure of transition-metal-hydrogen complexes in silicon. Physica B: Condensed Matter, 2001, 308-310, 408-413. | 2.7 | 11 |
| 39 | Luminescence of one dimensional ZnO, GeO ₂ -Zn ₂ GeO ₄ nanostructure through thermal evaporation of Zn and Ge powder mixture. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 209, 17-22. | 3.5 | 11 |
| 40 | Probing the origin of green emission in 1D ZnS nanostructures. Journal of Luminescence, 2016, 169, 165-172. | 3.1 | 11 |
| 41 | Understanding ferromagnetism in C-doped CdS: Monte Carlo simulation. Journal of Alloys and Compounds, 2017, 695, 1624-1630. | 5.5 | 11 |
| 42 | Silicon nanowires prepared by thermal evaporation and their photoluminescence properties measured at low temperatures. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 015016. | 1.5 | 10 |
| 43 | X-site aliovalent substitution decoupled charge and phonon transports in XYZ half-Heusler thermoelectrics. Acta Materialia, 2019, 166, 650-657. | 7.9 | 10 |
| 44 | Controlled synthesis and luminescence of Eu doped ZnO nanowires and nanorods via hydrothermal method. Journal of Physics: Conference Series, 2009, 187, 012022. | 0.4 | 9 |
| 45 | Photochemical synthesis of highly bactericidal silver nanoparticles. Nanotechnologies in Russia, 2010, 5, 554-563. | 0.7 | 9 |
| 46 | On the origin of green emission in zinc sulfide nanowires prepared by a thermal evaporation method. Journal of Luminescence, 2014, 153, 321-325. | 3.1 | 9 |
| 47 | Effect of substrate temperature on structural and optical properties of ZnO nanostructures grown by thermal evaporation method. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 85, 174-179. | 2.7 | 9 |
| 48 | Electron-paramagnetic-resonance studies of defects in electron-irradiated p-type 4H and 6H SiC. Physica B: Condensed Matter, 1999, 273-274, 655-658. | 2.7 | 8 |
| 49 | Synthesis and Optical Properties of Eu ²⁺ and Eu ³⁺ Doped SrBP Phosphors Prepared by Using a Co-precipitation Method for White Light-Emitting Devices. Journal of Electronic Materials, 2016, 45, 3356-3360. | 2.2 | 8 |
| 50 | Hydrogen passivation of the selenium double donor in silicon: A study by magnetic resonance. Physical Review B, 2000, 61, 7448-7458. | 3.2 | 7 |
| 51 | Magnetic resonance investigation of gold-doped and gold-hydrogen-doped silicon. Physical Review B, 2002, 66, . | 3.2 | 7 |
| 52 | Synthesis and Photoluminescence Properties of Deep-Red-Emitting CaYAlO ₄ :Cr ³⁺ Phosphors. Journal of Electronic Materials, 2020, 49, 7464-7471. | 2.2 | 7 |
| 53 | Giant magnetoimpedance in layered composite micro-wires for high-sensitivity magnetic sensor applications. Journal of Physics: Conference Series, 2009, 187, 012044. | 0.4 | 6 |
| 54 | Graphene and its one-dimensional patterns: from basic properties towards applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 033001. | 1.5 | 6 |

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|----|---|------|-----------|
| 55 | Lasing from ZnO Nanocrystals in ZnO-ZnS Microbelts. Journal of Electronic Materials, 2017, 46, 3295-3300. | 2.2 | 6 |
| 56 | Enhanced ferromagnetism in graphite-like carbon layer-coated ZnO crystals. Journal of Alloys and Compounds, 2017, 695, 233-237. | 5.5 | 6 |
| 57 | Controlling Blue and Red Light Emissions from Europium (Eu ²⁺)/Manganese (Mn ²⁺)-Codoped Beta-Tricalcium Phosphate [β-Ca ₃ (PO ₄) ₂ (TCP)] Phosphors. Journal of Electronic Materials, 2018, 47, 2964-2969. | 2.2 | 6 |
| 58 | Orange-Red-emitting Ca ₉ Gd(PO ₄) ₇ :Eu ³⁺ Phosphors: Judd-Ofelt Analysis and Investigation on the Thermal Stability, Quantum Efficiency for WLED. ChemistrySelect, 2021, 6, 937-944. | 1.5 | 6 |
| 59 | Strain-modulated helimagnetism and emergent magnetic phase diagrams in highly crystalline MnP nanorod films. Physical Review B, 2021, 103, . | 3.2 | 6 |
| 60 | Enhanced thermoelectric properties of Hf-free half-Heusler compounds prepared via highly fast process. Journal of Alloys and Compounds, 2021, 886, 161293. | 5.5 | 6 |
| 61 | Layered structure in core-shell silicon nanowires. Journal of Luminescence, 2014, 154, 46-50. | 3.1 | 5 |
| 62 | Effect of doping concentration and sintering temperature on structure and photoluminescence properties of blue/red emitting bi-phase Eu ³⁺ /Eu ²⁺ -doped Sr ₅ (PO ₄) ₃ Cl/Sr ₃ (PO ₄) ₂ phosphors. Materials Research Express, 2018, 5, 076516. | 1.6 | 5 |
| 63 | Magnetically tunable organic semiconductors with superparamagnetic nanoparticles. Materials Horizons, 2019, 6, 1913-1922. | 12.2 | 5 |
| 64 | Pd ₈₀ Co ₂₀ Nanohole Arrays Coated with Poly(methyl methacrylate) for High-Speed Hydrogen Sensing with a Part-per-Billion Detection Limit. ACS Applied Nano Materials, 2021, 4, 3664-3674. | 5.0 | 5 |
| 65 | In situ observation of phase transformation in iron carbide nanocrystals. Micron, 2018, 104, 61-65. | 2.2 | 4 |
| 66 | Achieving High Luminescent Performance K ₂ SiF ₆ :Mn ⁴⁺ Phosphor by Co-precipitation Process with Controlling the Reaction Temperature. Journal of Electronic Materials, 2018, 47, 4634-4641. | 2.2 | 4 |
| 67 | Effect of potting materials on LED bulb's driver temperature. Microelectronics Reliability, 2018, 86, 77-81. | 1.7 | 4 |
| 68 | High thermoelectric power factor in SnSe ₂ thin film grown on Al ₂ O ₃ substrate. Materials Research Express, 2019, 6, 066420. | 1.6 | 4 |
| 69 | Structural relaxation time and dynamic shear modulus of glassy graphene. Journal of Non-Crystalline Solids, 2020, 538, 120024. | 3.1 | 4 |
| 70 | Synthesis, structural and optical properties of ZnS/ZnO heterostructure-alloy hexagonal micropyramids. Optical Materials, 2022, 125, 112077. | 3.6 | 4 |
| 71 | Luminescence Properties of ZnS Nanoparticles and Porous Nanospheres Synthesized via Co-Precipitation and Hydrothermal Route. E-Journal of Surface Science and Nanotechnology, 2011, 9, 521-525. | 0.4 | 3 |
| 72 | Raman photoluminescence spectra of silicon nanowires synthesized by a vapor phase transport method. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 035004. | 1.5 | 3 |

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|----|---|-----|-----------|
| 73 | Strong luminescence from nanoporous Si with high degree of nanoporous structure by electrochemical etching of Si wafer. <i>Materials Letters</i> , 2015, 142, 126-129. | 2.6 | 3 |
| 74 | Influence of Annealing Temperature and Gd and Eu Concentrations on Structure and Luminescence Properties of (Y,Gd)BO ₃ :Eu ³⁺ Phosphors Prepared by Sol-Gel Method. <i>Journal of Electronic Materials</i> , 2017, 46, 3427-3432. | 2.2 | 3 |
| 75 | Atomic and electronic structure of hydrogen-passivated double selenium donors in silicon. <i>Physica B: Condensed Matter</i> , 1999, 273-274, 239-242. | 2.7 | 2 |
| 76 | Erbium-Activated Silica-Hafnia: a Reliable Photonic System. , 2008, , . | | 2 |
| 77 | Sol-gel synthesis and photoluminescence of SiO ₂ -Si:Er ³⁺ nanocomposite films. <i>Materials Research Express</i> , 2017, 4, 036205. | 1.6 | 2 |
| 78 | Fabrication and Spectroscopic Properties of Glass-Based Erbium Activated Micro-Nano Photonic Structures. , 2008, , . | | 1 |
| 79 | Structural and photoluminescent properties of nanosized BaMgAl ₁₀ O ₁₇ :Eu ²⁺ blue-emitting phosphors prepared by sol-gel method. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2015, 6, 035013. | 1.5 | 1 |
| 80 | Luminescence of Nanoporous Si and ALD-Deposited ZnO on Nanoporous Si Substrate. <i>Journal of Electronic Materials</i> , 2017, 46, 4784-4790. | 2.2 | 1 |
| 81 | MnP Films with Desired Magnetic, Magnetocaloric, and Thermoelectric Properties for a Perspective Magneto-Thermo-Electric Cooling Device. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100367. | 1.8 | 1 |
| 82 | High transmittance and excellent hardness TiO ₂ -SiO ₂ -Al ₂ O ₃ nanocomposite thin film for anti-scratch surface applications. <i>Polymer Composites</i> , 0, , . | 4.6 | 1 |
| 83 | Nanocomposite Photonic Glasses, Waveguiding Glass Ceramics and Confined Structures Tailoring Er ³⁺ Spectroscopic Properties. , 2007, , . | | 0 |
| 84 | White photoluminescence from Si/SiO ₂ nanostructured film. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2708-2711. | 1.5 | 0 |
| 85 | Monte Carlo Study of Room-Temperature Ferromagnetism in C-Doped ZnO. <i>IEEE Transactions on Magnetism</i> , 2014, 50, 1-4. | 2.1 | 0 |
| 86 | Photoluminescence and Cathodoluminescence Characterization of Ge/GeO ₂ Nanostructure Synthesized by Thermal Evaporation of Ge Powder. <i>Journal of Applied Spectroscopy</i> , 2016, 83, 665-668. | 0.7 | 0 |
| 87 | A versatile approach to synthesise optically active hierarchical ZnS/ZnO heterostructures. <i>International Journal of Nanotechnology</i> , 2018, 15, 222. | 0.2 | 0 |