

Tong Duy Hien

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

1,421
citations

22
h-index

37
g-index

45
ext. papers

1,527
ext. citations

5.3
avg, IF

3.97
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 43 | Electronic band structure and basic optical constants of TlGaSn ₂ Se ₆ , a promising NLO semiconductor: First-principles calculations under DFT framework. <i>Optik</i> , 2019 , 181, 673-685 | 2.5 | 9 |
| 42 | Exploring characteristics of the corner sections of a domain wall trap nanostructure with the two-field direction method.. <i>RSC Advances</i> , 2018 , 8, 41828-41835 | 3.7 | 2 |
| 41 | Electronic structure and basic optical constants of TlHgBr ₃ : Density functional theory calculations. <i>Optical Materials</i> , 2018 , 86, 191-197 | 3.3 | 5 |
| 40 | Preparation and gas sensing properties of nanocomposite polymers on micro-Interdigitated electrodes for detection of volatile organic compounds at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 1098-1104 | 8.5 | 6 |
| 39 | Gas sensing performance at room temperature of nanogap interdigitated electrodes for detection of acetone at low concentration. <i>RSC Advances</i> , 2017 , 7, 50279-50286 | 3.7 | 13 |
| 38 | Temperature balanced hydrogen sensor system with coupled palladium nanowires. <i>Sensors and Actuators A: Physical</i> , 2015 , 226, 98-106 | 3.9 | 6 |
| 37 | Determination of Inorganic Arsenic As(III) in Water by Linear Sweep Anodic Stripping Voltammetry Using Gold Ultra-Microelectrode Array. <i>ECS Transactions</i> , 2015 , 66, 25-32 | 1 | 3 |
| 36 | A generic microfluidic biosensor of G protein-coupled receptor activation Impedance measurements of reversible morphological changes of reverse transfected HEK293 cells on microelectrodes. <i>RSC Advances</i> , 2015 , 5, 52563-52570 | 3.7 | 5 |
| 35 | Self-seeding microwell chip for the isolation and characterization of single cells. <i>Lab on A Chip</i> , 2015 , 15, 3039-46 | 7.2 | 69 |
| 34 | Improving the limits of detection in potentiometric sensors. <i>Measurement Science and Technology</i> , 2015 , 26, 125104 | 2 | 1 |
| 33 | Component design and testing for a miniaturised autonomous sensor based on a nanowire materials platform. <i>Microsystem Technologies</i> , 2014 , 20, 971-988 | 1.7 | |
| 32 | Intrinsic and Ionic Conduction in Humidity-Sensitive Sulfonated Polyaniline. <i>Electrochimica Acta</i> , 2014 , 127, 106-114 | 6.7 | 20 |
| 31 | Carbon dioxide detection with polyethylenimine blended with polyelectrolytes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 452-459 | 8.5 | 24 |
| 30 | Glucose biosensor based on platinum nanowires: a clinical study. <i>International Journal of Nanotechnology</i> , 2013 , 10, 166 | 1.5 | 2 |
| 29 | Detection of biomarker p53 mutated gene by a silicon nanowire nanosensor. <i>International Journal of Nanotechnology</i> , 2013 , 10, 178 | 1.5 | 2 |
| 28 | Wafer-scale thin encapsulated two-dimensional nanochannels and its application toward visualization of single molecules. <i>Journal of Colloid and Interface Science</i> , 2012 , 367, 455-9 | 9.3 | 3 |
| 27 | Carbon dioxide sensing with sulfonated polyaniline. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 123-130 | 3.5 | 29 |

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|----|--|------|-----|
| 26 | Synthesis and characterization of PtPd nanoparticles with core-shell morphology: Nucleation and overgrowth of the Pd shells on the as-prepared and defined Pt seeds. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7702-7709 | 5.7 | 23 |
| 25 | A comparative study of Pt and PtPd core-shell nanocatalysts. <i>Electrochimica Acta</i> , 2011 , 56, 9133-9143 | 6.7 | 57 |
| 24 | Synthesis and characterization of polyhedral and quasi-sphere non-polyhedral Pt nanoparticles: effects of their various surface morphologies and sizes on electrocatalytic activity for fuel cell applications. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5177-5191 | 2.3 | 15 |
| 23 | Effects of heat treatment and poly(vinylpyrrolidone) (PVP) polymer on electrocatalytic activity of polyhedral Pt nanoparticles towards their methanol oxidation. <i>Colloid and Polymer Science</i> , 2011 , 289, 1373-1386 | 2.4 | 52 |
| 22 | Shedding light on axial stress effect on resonance frequencies of nanocantilevers. <i>ACS Nano</i> , 2011 , 5, 4269-75 | 16.7 | 32 |
| 21 | Synthesis and characterization of PtPd alloy and core-shell bimetallic nanoparticles for direct methanol fuel cells (DMFCs): Enhanced electrocatalytic properties of well-shaped core-shell morphologies and nanostructures. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8478-8491 | 6.7 | 131 |
| 20 | IC compatible top down process for Silicon Nanowire fet arrays with three {100} surfaces for (BIO) chemical sensing 2011 , | | 4 |
| 19 | High throughput optical readout of dense arrays of nanomechanical systems for sensing applications. <i>Review of Scientific Instruments</i> , 2010 , 81, 125109 | 1.7 | 35 |
| 18 | A low-power readout circuit for nanowire based hydrogen sensor. <i>Microelectronics Journal</i> , 2010 , 41, 733-739 | 1.8 | 8 |
| 17 | Fabrication of nano structures in thin membranes with focused ion beam technology. <i>Surface and Coatings Technology</i> , 2009 , 203, 2436-2441 | 4.4 | 13 |
| 16 | Novel top-down wafer-scale fabrication of single crystal silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 1015-221.5 | 11.5 | 81 |
| 15 | Arrays of dual nanomechanical resonators for selective biological detection. <i>Analytical Chemistry</i> , 2009 , 81, 2274-9 | 7.8 | 53 |
| 14 | Ultralow-power hydrogen sensing with single palladium nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 223110 | 3.4 | 128 |
| 13 | Ultra-low-power hydrogen sensing with palladium nanowires 2008 , | | 1 |
| 12 | Simple Technique for Direct Patterning of Nanowires using a Nanoslit Shadow-Mask 2007 , | | 1 |
| 11 | Measurement and modeling of hydrogen transport through high-flux Pd membranes. <i>Journal of Membrane Science</i> , 2007 , 289, 15-25 | 9.6 | 37 |
| 10 | Influence of steam and carbon dioxide on the hydrogen flux through thin Pd/Ag and Pd membranes. <i>Journal of Membrane Science</i> , 2006 , 279, 176-185 | 9.6 | 74 |
| 9 | Microsieve supporting palladium-silver alloy membrane and application to hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 113-124 | 2.5 | 26 |

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|---|---|------|-----|
| 8 | Preparation of palladium-silver alloy films by a dual-sputtering technique and its application in hydrogen separation membrane. <i>Thin Solid Films</i> , 2005 , 479, 89-94 | 2.2 | 30 |
| 7 | Microsystem technology for high-flux hydrogen separation membranes. <i>Journal of Membrane Science</i> , 2004 , 243, 203-213 | 9.6 | 39 |
| 6 | Microfabricated Palladium-Silver Alloy Membranes and Their Application in Hydrogen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4182-4187 | 3.9 | 33 |
| 5 | High-Flux Palladium Membranes Based on Microsystem Technology. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4768-4772 | 3.9 | 26 |
| 4 | Silicon Nitride Nanosieve Membrane. <i>Nano Letters</i> , 2004 , 4, 283-287 | 11.5 | 227 |
| 3 | Fabrication and characterization of dual sputtered Pd-Cu alloy films for hydrogen separation membranes. <i>Materials Letters</i> , 2004 , 58, 525-528 | 3.3 | 42 |
| 2 | Microfabrication of palladium-silver alloy membranes for hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 622-629 | 2.5 | 33 |
| 1 | High-flux palladium-silver alloy membranes fabricated by microsystem technology. <i>Desalination</i> , 2002 , 147, 417-423 | 10.3 | 21 |