

Tong Duy Hien

List of Publications by Citations

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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	Silicon Nitride Nanosieve Membrane. <i>Nano Letters</i> , 2004 , 4, 283-287	11.5	227
42	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
41	Ultralow-power hydrogen sensing with single palladium nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 223110	3.4	128
40	Novel top-down wafer-scale fabrication of single crystal silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 1015-22	11.5	81
39	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
38	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
37	A comparative study of Pt and PtPd core-shell nanocatalysts. <i>Electrochimica Acta</i> , 2011 , 56, 9133-9143	6.7	57
36	Arrays of dual nanomechanical resonators for selective biological detection. <i>Analytical Chemistry</i> , 2009 , 81, 2274-9	7.8	53
35	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
34	Fabrication and characterization of dual sputtered PdCu alloy films for hydrogen separation membranes. <i>Materials Letters</i> , 2004 , 58, 525-528	3.3	42
33	Microsystem technology for high-flux hydrogen separation membranes. <i>Journal of Membrane Science</i> , 2004 , 243, 203-213	9.6	39
32	Measurement and modeling of hydrogen transport through high-flux Pd membranes. <i>Journal of Membrane Science</i> , 2007 , 289, 15-25	9.6	37
31	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
30	Microfabricated PalladiumSilver Alloy Membranes and Their Application in Hydrogen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4182-4187	3.9	33
29	Microfabrication of palladium-silver alloy membranes for hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 622-629	2.5	33
28	Shedding light on axial stress effect on resonance frequencies of nanocantilevers. <i>ACS Nano</i> , 2011 , 5, 4269-75	16.7	32
27	Preparation of palladiumSilver 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

26	Carbon dioxide sensing with sulfonated polyaniline. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 123-130	5	29
25	Microsieve supporting palladium-silver alloy membrane and application to hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 113-124	2.5	26
24	High-Flux Palladium Membranes Based on Microsystem Technology. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4768-4772	3.9	26
23	Carbon dioxide detection with polyethylenimine blended with polyelectrolytes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 452-459	8.5	24
22	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
21	High-flux palladium-silver alloy membranes fabricated by microsystem technology. <i>Desalination</i> , 2002 , 147, 417-423	10.3	21
20	Intrinsic and Ionic Conduction in Humidity-Sensitive Sulfonated Polyaniline. <i>Electrochimica Acta</i> , 2014 , 127, 106-114	6.7	20
19	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
18	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
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	Electronic band structure and basic optical constants of TlGaSn2Se6, a promising NLO semiconductor: First-principles calculations under DFT framework. <i>Optik</i> , 2019 , 181, 673-685	2.5	9
15	A low-power readout circuit for nanowire based hydrogen sensor. <i>Microelectronics Journal</i> , 2010 , 41, 733-739	1.8	8
14	Temperature balanced hydrogen sensor system with coupled palladium nanowires. <i>Sensors and Actuators A: Physical</i> , 2015 , 226, 98-106	3.9	6
13	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
12	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
11	Electronic structure and basic optical constants of TlHgBr3: Density functional theory calculations. <i>Optical Materials</i> , 2018 , 86, 191-197	3.3	5
10	IC compatible top down process for Silicon Nanowire fet arrays with three {100} surfaces for (BIO) chemical sensing 2011 ,		4
9	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

8	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
7	Glucose biosensor based on platinum nanowires: a clinical study. <i>International Journal of Nanotechnology</i> , 2013 , 10, 166	1.5	2
6	Detection of biomarker p53 mutated gene by a silicon nanowire nanosensor. <i>International Journal of Nanotechnology</i> , 2013 , 10, 178	1.5	2
5	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
4	Improving the limits of detection in potentiometric sensors. <i>Measurement Science and Technology</i> , 2015 , 26, 125104	2	1
3	Ultra-low-power hydrogen sensing with palladium nanowires 2008 ,		1
2	Simple Technique for Direct Patterning of Nanowires using a Nanoslit Shadow-Mask 2007 ,		1
1	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	