

Jerry Yu

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,427
citations

394421

19
h-index

330143

37
g-index

62
all docs

62
docs citations

62
times ranked

1852
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Doped 2D SnS materials derived from liquid metal-solution for tunable optoelectronic devices. <i>Nanoscale</i> , 2022, 14, 6802-6810. | 5.6 | 17 |
| 2 | A Room Temperature Hydrocarbon Electronic Nose Gas Sensor Based on Schottky and Heterojunction Diode Structures. <i>IEEE Electron Device Letters</i> , 2020, 41, 163-166. | 3.9 | 3 |
| 3 | A novel method for predicting optimal gas sensing temperature of morphologically distinct nanostructured Schottky interfaces. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 468-475. | 7.8 | 6 |
| 4 | Temperature-dependent sensitivity in Pt/La ₂ O ₃ nanobelt Schottky interface hydrogen sensors. <i>Materials Research Bulletin</i> , 2019, 110, 174-180. | 5.2 | 3 |
| 5 | Morphology, stoichiometry, and crystal structure control via post-annealing for Pt/ZnO nanograin Schottky barrier interfaces. <i>Applied Surface Science</i> , 2018, 443, 506-514. | 6.1 | 9 |
| 6 | Determination of the Optimal Sensing Temperature in Pt/Ta ₂ O ₅ /MoO ₃ Schottky Contacted Nanobelt Straddling Heterojunction. <i>Sensors</i> , 2018, 18, 3770. | 3.8 | 7 |
| 7 | A novel surface area to volume ratio estimation technique for nanohemisphere contacted Schottky barrier structures. <i>AIP Advances</i> , 2018, 8, 085311. | 1.3 | 0 |
| 8 | Enhancement of Gas Sensitivity For MoO ₃ Nanobelt Sensor by Thermionic Field Emission. , 2017, 1, 1-4. | | 0 |
| 9 | High-sensitivity low-power tungsten doped niobium oxide nanorods sensor for nitrogen dioxide air pollution monitoring. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 204-213. | 7.8 | 20 |
| 10 | Nanostructured TiO ₂ Schottky diode with large surface area for chemical sensors. , 2016, , . | | 0 |
| 11 | Tungsten-Doped Nb ₂ O ₅ Nanorod Sensor for Toxic and Combustible Gas Monitoring Applications. <i>IEEE Electron Device Letters</i> , 2016, 37, 1223-1226. | 3.9 | 3 |
| 12 | MoO ₃ nanoplatelets based Schottky diode for low-noise sensors in harsh environments. , 2016, , . | | 0 |
| 13 | Multifunctional Fe ₅ C ₂ nanoparticles: A platform for magnetic resonance imaging, photoacoustic tomography and photothermal therapy. , 2015, , . | | 0 |
| 14 | On the voltage dependence of sensitivity for Schottky-type gas sensor. <i>Applied Physics Letters</i> , 2014, 105, 223503. | 3.3 | 13 |
| 15 | Investigation of WO ₃ /ZnO thin-film heterojunction-based Schottky diodes for H ₂ gas sensing. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10313-10319. | 7.1 | 77 |
| 16 | A hydrogen/methane sensor based on niobium tungsten oxide nanorods synthesised by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 118-129. | 7.8 | 37 |
| 17 | Improving the hydrogen gas sensing performance of Pt/MoO ₃ nanoplatelets using a nano thick layer of La ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 267-273. | 7.8 | 27 |
| 18 | A comparison study on hydrogen sensing performance of Pt/MoO ₃ nanoplatelets coated with a thin layer of Ta ₂ O ₅ or La ₂ O ₃ . , 2013, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. IEEE Sensors Journal, 2013, 13, 1534-1540. | 4.7 | 1 |
| 20 | A novel hydrogen sensor based on Pt/WO ₃ /Si MIS Schottky diode. , 2013, , . | | 2 |
| 21 | Hydrothermally formed functional niobium oxide doped tungsten nanorods. Nanotechnology, 2013, 24, 495501. | 2.6 | 15 |
| 22 | A study on MIS Schottky diode based hydrogen sensor using La ₂ O ₃ as gate insulator. Microelectronics Reliability, 2012, 52, 1660-1664. | 1.7 | 17 |
| 23 | Controllable one-step synthesis of magnetite/carbon nanotubes composite and its electrochemical properties. Applied Physics A: Materials Science and Processing, 2012, 106, 837-842. | 2.3 | 19 |
| 24 | Hydrogen gas sensing performance of a Pt/graphene/SiC device. , 2011, , . | | 2 |
| 25 | Hydrogen gas sensors based on thermally evaporated nanostructured MoO ₃ Schottky diode: A comparative study. , 2011, , . | | 3 |
| 26 | Facile synthesis of Nb ₂ O ₅ nanorod array films and their electrochemical properties. Applied Surface Science, 2011, 257, 10084-10088. | 6.1 | 67 |
| 27 | Hydrogen gas sensing properties of Pt/Ta ₂ O ₅ Schottky diodes based on Si and SiC substrates. Sensors and Actuators A: Physical, 2011, 172, 9-14. | 4.1 | 27 |
| 28 | Optical Hydrogen Sensing Properties of Nanostructured Pd/MoO ₃ Films. Sensor Letters, 2011, 9, 16-20. | 0.4 | 20 |
| 29 | The correlation between electric field emission phenomenon and Schottky contact reverse bias characteristics in nanostructured systems. Journal of Applied Physics, 2011, 109, 114316. | 2.5 | 7 |
| 30 | Effects of rare earth cerium addition on the synthesis and corrosion resistance of electroless Ni-PTFE-P coating. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 926-931. | 1.5 | 12 |
| 31 | Synthesis and electrochemical properties of CeO ₂ nanoparticle modified TiO ₂ nanotube arrays. Electrochimica Acta, 2011, 56, 2914-2918. | 5.2 | 32 |
| 32 | A study of hydrogen gas sensing performance of Pt/Graphene/GaN devices. , 2011, , . | | 2 |
| 33 | A Hydrogen Gas Sensor Based on Pt/Nanostructured WO ₃ /SiC Schottky Diode. Sensor Letters, 2011, 9, 11-15. | 0.4 | 19 |
| 34 | Pt/Nanograined ZnO/SiC Schottky Diode Based Hydrogen and Propene Sensor. Sensor Letters, 2011, 9, 55-58. | 0.4 | 4 |
| 35 | Pt/Nanostructured RuO ₂ /SiC Schottky Diode Based Hydrogen Gas Sensors. Sensor Letters, 2011, 9, 797-800. | 0.4 | 4 |
| 36 | Hydrogen gas sensing properties of Pt/Ta ₂ O ₅ Schottky diodes based on Si and SiC substrates. Procedia Engineering, 2010, 5, 147-151. | 1.2 | 6 |

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|----|--|-----|-----------|
| 37 | Gas sensing properties of thermally evaporated lamellar MoO ₃ . Sensors and Actuators B: Chemical, 2010, 145, 13-19. | 7.8 | 264 |
| 38 | Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensing. Sensors and Actuators B: Chemical, 2010, 146, 507-512. | 7.8 | 77 |
| 39 | A study on metal-insulator-silicon hydrogen sensor with La ₂ O ₃ as gate insulator. , 2010, , . | | 0 |
| 40 | Nanorod based Schottky contact gas sensors in reversed bias condition. Nanotechnology, 2010, 21, 265502. | 2.6 | 99 |
| 41 | Enhancement of electric field properties of Pt/nanoplatelet MoO ₃ /SiC Schottky diode. Journal Physics D: Applied Physics, 2010, 43, 025103. | 2.8 | 25 |
| 42 | Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 13796-13801. | 3.1 | 160 |
| 43 | A study on hydrogen adsorption of Metal-Insulator-Silicon sensor with La. , 2010, , . | | 0 |
| 44 | Pt/TiO ₂ /nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , . | | 0 |
| 45 | Pt/MoO ₃ . , 2010, , . | | 3 |
| 46 | Pt/graphene nano-sheet based hydrogen gas sensor. , 2009, , . | | 13 |
| 47 | Enhanced field emission of vertically aligned core-shelled carbon nanotubes with molybdenum oxide encapsulation. Journal of Applied Physics, 2009, 105, . | 2.5 | 10 |
| 48 | Reverse biased Pt/nanostructured MoO ₃ /SiC Schottky diode based hydrogen gas sensors. Applied Physics Letters, 2009, 94, . | 3.3 | 60 |
| 49 | Reverse Biased Schottky Contact Hydrogen Sensors Based on Pt-nanostructured ZnO-SiC. , 2009, , . | | 2 |
| 50 | Effect of surfactant on the alumina dispersion and corrosion behavior of electroless Ni ₂ P/Al ₂ O ₃ composite coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 690-694. | 1.5 | 47 |
| 51 | A comparison of forward and reverse bias operation in a Pt/nanostructured ZnO Schottky diode based hydrogen sensor. Procedia Chemistry, 2009, 1, 979-982. | 0.7 | 13 |
| 52 | Optimized many body potential for fcc metals. Philosophical Magazine Letters, 2009, 89, 136-144. | 1.2 | 22 |
| 53 | Effect of Aluminum Concentration on the Interfacial Reactions of Sn-3.0Ag-xAl Solders with Copper and ENIG Metallizations. Journal of Electronic Materials, 2008, 37, 1858-1862. | 2.2 | 9 |
| 54 | ZnO nanostructured arrays grown from aqueous solutions on different substrates. , 2008, , . | | 3 |

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|----|--|-----|-----------|
| 55 | Pt/anodized TiO ₂ /SiC-based MOS device for hydrocarbon sensing. Proceedings of SPIE, 2008, , . | 0.8 | 2 |
| 56 | Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition. Journal of Physical Chemistry B, 2006, 110, 21073-21076. | 2.6 | 19 |
| 57 | Residual stress and interfacial reaction of the electroplated Ni-Cu alloy under bump metallurgy in the flip-chip solder joint. Journal of Electronic Materials, 2004, 33, 948-957. | 2.2 | 31 |
| 58 | The effects of electroplating parameters on the composition and morphology of Sn-Ag solder. Journal of Electronic Materials, 2004, 33, 1459-1464. | 2.2 | 32 |
| 59 | Discrete / Finite Element Modelling of Industrial Applications with Multi-Fracturing and Particulate Phenomena. , 2002, , 11. | | 10 |
| 60 | THE ROLE OF DYNAMIC STRAIN-AGEING IN THE ENVIRONMENT ASSISTED CRACKING OBSERVED IN PRESSURE VESSEL STEELS. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 1-12. | 3.4 | 35 |
| 61 | THE EFFECT OF CATHODIC PROTECTION POTENTIAL ON CORROSION FATIGUE CRACK GROWTH RATE OF AN OFFSHORE STRUCTURAL STEEL. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 1019-1029. | 3.4 | 6 |
| 62 | Observation of the Wurtzite Phase in OMVPE Grown ZnSe/GaAs: Effect on Implantation and Rapid Thermal Annealing. Materials Research Society Symposia Proceedings, 1989, 147, 339. | 0.1 | 1 |