

# Jerry Yu

## List of Publications by Year in descending order

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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	Gas sensing properties of thermally evaporated lamellar MoO <sub>3</sub> . Sensors and Actuators B: Chemical, 2010, 145, 13-19.	7.8	264
2	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 13796-13801.	3.1	160
3	Nanorod based Schottky contact gas sensors in reversed bias condition. Nanotechnology, 2010, 21, 265502.	2.6	99
4	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
5	Investigation of WO <sub>3</sub> /ZnO thin-film heterojunction-based Schottky diodes for H <sub>2</sub> gas sensing. International Journal of Hydrogen Energy, 2014, 39, 10313-10319.	7.1	77
6	Facile synthesis of Nb <sub>2</sub> O <sub>5</sub> nanorod array films and their electrochemical properties. Applied Surface Science, 2011, 257, 10084-10088.	6.1	67
7	Reverse biased Pt/nanostructured MoO <sub>3</sub> /SiC Schottky diode based hydrogen gas sensors. Applied Physics Letters, 2009, 94, .	3.3	60
8	Effect of surfactant on the alumina dispersion and corrosion behavior of electroless Ni <sub>2</sub> P/Al <sub>2</sub> O <sub>3</sub> composite coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 690-694.	1.5	47
9	A hydrogen/methane sensor based on niobium tungsten oxide nanorods synthesised by hydrothermal method. Sensors and Actuators B: Chemical, 2013, 184, 118-129.	7.8	37
10	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
11	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
12	Synthesis and electrochemical properties of CeO <sub>2</sub> nanoparticle modified TiO <sub>2</sub> nanotube arrays. Electrochimica Acta, 2011, 56, 2914-2918.	5.2	32
13	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
14	Hydrogen gas sensing properties of Pt/Ta <sub>2</sub> O <sub>5</sub> Schottky diodes based on Si and SiC substrates. Sensors and Actuators A: Physical, 2011, 172, 9-14.	4.1	27
15	Improving the hydrogen gas sensing performance of Pt/MoO <sub>3</sub> nanoplatelets using a nano thick layer of La <sub>2</sub> O <sub>3</sub> . Sensors and Actuators B: Chemical, 2013, 187, 267-273.	7.8	27
16	Enhancement of electric field properties of Pt/nanoplatelet MoO <sub>3</sub> /SiC Schottky diode. Journal Physics D: Applied Physics, 2010, 43, 025103.	2.8	25
17	Optimized many body potential for fcc metals. Philosophical Magazine Letters, 2009, 89, 136-144.	1.2	22
18	Optical Hydrogen Sensing Properties of Nanostructured Pd/MoO <sub>3</sub> Films. Sensor Letters, 2011, 9, 16-20.	0.4	20

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19	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
20	Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21073-21076.	2.6	19
21	Controllable one-step synthesis of magnetite/carbon nanotubes composite and its electrochemical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 837-842.	2.3	19
22	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO <sub>3</sub> /SiC Schottky Diode. <i>Sensor Letters</i> , 2011, 9, 11-15.	0.4	19
23	A study on MIS Schottky diode based hydrogen sensor using La <sub>2</sub> O <sub>3</sub> as gate insulator. <i>Microelectronics Reliability</i> , 2012, 52, 1660-1664.	1.7	17
24	Doped 2D SnS materials derived from liquid metal-solution for tunable optoelectronic devices. <i>Nanoscale</i> , 2022, 14, 6802-6810.	5.6	17
25	Hydrothermally formed functional niobium oxide doped tungsten nanorods. <i>Nanotechnology</i> , 2013, 24, 495501.	2.6	15
26	Pt/graphene nano-sheet based hydrogen gas sensor. , 2009, , .		13
27	A comparison of forward and reverse bias operation in a Pt/nanostructured ZnO Schottky diode based hydrogen sensor. <i>Procedia Chemistry</i> , 2009, 1, 979-982.	0.7	13
28	On the voltage dependence of sensitivity for Schottky-type gas sensor. <i>Applied Physics Letters</i> , 2014, 105, 223503.	3.3	13
29	Effects of rare earth cerium addition on the synthesis and corrosion resistance of electroless Niâ€“PTFEâ€“P coating. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 926-931.	1.5	12
30	Discrete / Finite Element Modelling of Industrial Applications with Multi-Fracturing and Particulate Phenomena. , 2002, , 11.		10
31	Enhanced field emission of vertically aligned core-shelled carbon nanotubes with molybdenum oxide encapsulation. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	10
32	Effect of Aluminum Concentration on the Interfacial Reactions of Sn-3.0Ag-xAl Solders with Copper and ENIG Metallizations. <i>Journal of Electronic Materials</i> , 2008, 37, 1858-1862.	2.2	9
33	Morphology, stoichiometry, and crystal structure control via post-annealing for Ptâ€“ZnO nanograin Schottky barrier interfaces. <i>Applied Surface Science</i> , 2018, 443, 506-514.	6.1	9
34	The correlation between electric field emission phenomenon and Schottky contact reverse bias characteristics in nanostructured systems. <i>Journal of Applied Physics</i> , 2011, 109, 114316.	2.5	7
35	Determination of the Optimal Sensing Temperature in Pt/Ta <sub>2</sub> O <sub>5</sub> /MoO <sub>3</sub> Schottky Contacted Nanobelt Straddling Heterojunction. <i>Sensors</i> , 2018, 18, 3770.	3.8	7
36	THE EFFECT OF CATHODIC PROTECTION POTENTIAL ON CORROSION FATIGUE CRACK GROWTH RATE OF AN OFFSHORE STRUCTURAL STEEL. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1996, 19, 1019-1029.	3.4	6

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37	Hydrogen gas sensing properties of Pt/Ta <sub>2</sub> O <sub>5</sub> Schottky diodes based on Si and SiC substrates. Procedia Engineering, 2010, 5, 147-151.	1.2	6
38	A novel method for predicting optimal gas sensing temperature of morphologically distinct nanostructured Schottky interfaces. Sensors and Actuators B: Chemical, 2019, 287, 468-475.	7.8	6
39	Pt/Nanograined ZnO/SiC Schottky Diode Based Hydrogen and Propene Sensor. Sensor Letters, 2011, 9, 55-58.	0.4	4
40	Pt/Nanostructured RuO <sub>2</sub> /SiC Schottky Diode Based Hydrogen Gas Sensors. Sensor Letters, 2011, 9, 797-800.	0.4	4
41	ZnO nanostructured arrays grown from aqueous solutions on different substrates. , 2008, , .		3
42	Pt/MoO <sub>3</sub> , 2010, , .		3
43	Hydrogen gas sensors based on thermally evaporated nanostructured MoO <sub>3</sub> Schottky diode: A comparative study. , 2011, , .		3
44	A comparison study on hydrogen sensing performance of Pt/MoO <sub>3</sub> nanoplatelets coated with a thin layer of Ta <sub>2</sub> O <sub>5</sub> or La <sub>2</sub> O <sub>3</sub> . , 2013, , .		3
45	Tungsten-Doped Nb <sub>2</sub> O <sub>5</sub> Nanorod Sensor for Toxic and Combustible Gas Monitoring Applications. IEEE Electron Device Letters, 2016, 37, 1223-1226.	3.9	3
46	Temperature-dependent sensitivity in Pt/La <sub>2</sub> O <sub>3</sub> nanobelt Schottky interface hydrogen sensors. Materials Research Bulletin, 2019, 110, 174-180.	5.2	3
47	A Room Temperature Hydrocarbon Electronic Nose Gas Sensor Based on Schottky and Heterojunction Diode Structures. IEEE Electron Device Letters, 2020, 41, 163-166.	3.9	3
48	Pt/anodized TiO <sub>2</sub> /SiC-based MOS device for hydrocarbon sensing. Proceedings of SPIE, 2008, , .	0.8	2
49	Reverse Biased Schottky Contact Hydrogen Sensors Based on Pt/nanostructured ZnO/SiC. , 2009, , .		2
50	Hydrogen gas sensing performance of a Pt/graphene/SiC device. , 2011, , .		2
51	A study of hydrogen gas sensing performance of Pt/Graphene/GaN devices. , 2011, , .		2
52	A novel hydrogen sensor based on Pt/WO <sub>3</sub> /Si MIS Schottky diode. , 2013, , .		2
53	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
54	Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. IEEE Sensors Journal, 2013, 13, 1534-1540.	4.7	1

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55	A study on metal-insulator-silicon hydrogen sensor with La <sub>2</sub> O <sub>3</sub> as gate insulator. , 2010, , .		0
56	A study on hydrogen adsorption of Metal-Insulator-Silicon sensor with La. , 2010, , .		0
57	Pt/TiO <sub>2</sub> nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0
58	Multifunctional Fe <sub>5</sub> C <sub>2</sub> nanoparticles: A platform for magnetic resonance imaging, photoacoustic tomography and photothermal therapy. , 2015, , .		0
59	Nanostructured TiO <sub>2</sub> Schottky diode with large surface area for chemical sensors. , 2016, , .		0
60	MoO <sub>3</sub> nanoplatelets based Schottky diode for low-noise sensors in harsh environments. , 2016, , .		0
61	Enhancement of Gas Sensitivity For MoO <sub>3</sub> Nanobelt Sensor by Thermionic Field Emission. , 2017, 1, 1-4.		0
62	A novel surface area to volume ratio estimation technique for nanohemisphere contacted Schottky barrier structures. AIP Advances, 2018, 8, 085311.	1.3	0