

CITATION REPORT

List of articles citing

Free energy and electronic properties of water adsorption on the SnO₂(110) surface

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#	Paper	IF	Citations
47	Surface and grain boundary energies of tin dioxide at low and high temperatures and effects on densification behavior. <i>Journal of Materials Research</i> , 2014 , 29, 1034-1046	2.5	19
46	Insight into the Effect of Sn on CO and Formic Acid Oxidation at PtSn Catalysts. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 278-289	3.8	36
45	Role of proton hopping in surface charge transport on tin dioxide as revealed by the thermal dependence of conductance. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 12031-40	2.8	6
44	Vibrational Density of States of Strongly H-Bonded Interfacial Water: Insights from Inelastic Neutron Scattering and Theory. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10805-10813	3.8	43
43	SnO ₂ : A comprehensive review on structures and gas sensors. <i>Progress in Materials Science</i> , 2014 , 66, 112-255	42.2	689
42	Structure Evolution and Associated Catalytic Properties of Pt-Sn Bimetallic Nanoparticles. <i>Chemistry - A European Journal</i> , 2015 , 21, 12034-41	4.8	43
41	Experimental and theoretical studies on noble metal decorated tin oxide flower-like nanorods with high ethanol sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015 , 219, 83-93	8.5	58
40	Enhanced sampling of chemical and biochemical reactions with metadynamics. <i>Molecular Simulation</i> , 2015 , 41, 55-72	2	34
39	Antimony-Doped Tin Dioxide Gas Sensors Exhibiting High Stability in the Sensitivity to Humidity Changes. <i>ACS Sensors</i> , 2016 , 1, 913-920	9.2	78
38	Ru55 nanoparticles catalyze the dissociation of H ₂ O monomer and dimer to produce hydrogen: A comparative DFT study. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3844-3853	6.7	5
37	Effect of pH on the electrical properties and conducting mechanism of SnO ₂ nanoparticles. <i>Physica B: Condensed Matter</i> , 2017 , 509, 62-69	2.8	8
36	Ambient Humidity Influence on CO Detection with SnO ₂ Gas Sensing Materials. A Combined DRIFTS/DFT Investigation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25064-25073	3.8	58
35	Effect of humidity on gas sensing properties of tin dioxide toward carbon monoxide: A first principle study. 2017 ,		1
34	Room temperature ozone and humidity response evolution of atomic layer deposited SnO ₂ sensors. 2017 ,		1
33	Coordination Polymer-Derived Multishelled Mixed Ni-Co Oxide Microspheres for Robust and Selective Detection of Xylene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15314-15321	9.5	50
32	A New Insight into Cross-Sensitivity to Humidity of SnO Sensor. <i>Small</i> , 2018 , 14, e1703974	11	28
31	Impedometric humidity sensing characteristics of SnO ₂ thin films and SnO ₂ /ZnO composite thin films grown by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3999-4010	2.1	9

30	Sensing mechanism of ethanol and acetone at room temperature by SnO ₂ nano-columns synthesized by aerosol routes: theoretical calculations compared to experimental results. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2053-2066	13	54
29	Towards operando computational modeling in heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2018 , 47, 8307-8348	58.5	116
28	Significance of in-plane oxygen vacancy rich non-stoichiometric layer towards unusual high dielectric constant in nano-structured SnO ₂ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 103, 60-65	3	13
27	Nature of Lone-Pair-Surface Bonds and Their Scaling Relations. <i>Inorganic Chemistry</i> , 2018 , 57, 7222-7238	5.1	35
26	Sub-wavelength waveguide properties of 1D and surface-functionalized SnO nanostructures of various morphologies. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 379-388	3	8
25	Oxygen adsorption on ZrO ₂ -loaded SnO ₂ gas sensors in humid atmosphere. <i>Journal of Materials Science</i> , 2019 , 54, 3135-3143	4.3	12
24	Basics of semiconducting metal oxide based gas sensors. 2019 , 61-165		8
23	Solution-processed and evaporated C60 interlayers for improved charge transport in perovskite photovoltaics. <i>Organic Electronics</i> , 2020 , 77, 105526	3.5	5
22	Investigations on the Temperature-Dependent Interaction of Water Vapor with Tin Dioxide and Its Implications on Gas Sensing. <i>ACS Sensors</i> , 2020 , 5, 3207-3216	9.2	10
21	Pure and Pr-doped Ce ₄ W ₉ O ₃₃ with superior hydroxyl scavenging ability: humidity-independent oxide chemiresistors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16359-16369	13	4
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19	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6561-6566	16.4	13
18	Study on the relationship between the tribological properties and oxidation degree of graphene derivatives in O/W emulsion. <i>Tribology International</i> , 2021 , 157, 106875	4.9	3
17	The role of oxygen vacancies on SnO ₂ surface in reducing cross-sensitivity between ambient humidity and CO: A first principles investigation. <i>Surface Science</i> , 2021 , 708, 121817	1.8	8
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14	Layered amorphous α-SnO ₂ gas sensors by controlled oxidation of 2D-SnSe ₂ . <i>Sensors and Actuators B: Chemical</i> , 2022 , 350, 130890	8.5	2
13	High Coverage of H ₂ , CH ₄ , NH ₃ and H ₂ O on (110) SnO ₂ Nanotubes. <i>Engineering Materials</i> , 2020 , 169-188	0.4	

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10	Fabrication of a Humidity-Resistant Formaldehyde Gas Sensor Through Layering a Molecular Sieve on 3D Ordered Mesoporous SnO ₂ Decorated with Au Nanoparticles. <i>SSRN Electronic Journal</i> ,	1	
9	Hydroxylation and molecular adsorption behavior of SnO ₂ (110) crystal plane. <i>Materials Research Bulletin</i> , 2022 , 111787	5.1	0
8	Effect of Defects on Optical, Electronic, and Interface Properties of NiO/SnO Heterostructures: Dual-Functional Solar Photocatalytic H ₂ Production and RhB Degradation.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60002-60017	9.5	1
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6	Molecular Adsorption Behavior of Zn ₂ SnO ₄ (111) Crystal Surface. <i>SSRN Electronic Journal</i> ,	1	
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3	Surface functionalization of ion-in-conjugation polymer sensors for humidity-independent gas detection at room temperature. 2022 , 372, 132654		2
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1	Looking Outside the Square: The Growth, Structure, and Resilient Two-Dimensional Surface Electron Gas of Square SnO ₂ Nanotubes.		0