

David Degler

List of Publications by Year in descending order

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16
papers

941
citations

623734

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1058476

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docs citations

17
times ranked

1155
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Understanding of the Fundamental Mechanisms of Doped and Loaded Semiconducting Metal-Oxide-Based Gas Sensing Materials. ACS Sensors, 2019, 4, 2228-2249.	7.8	284
2	Identifying the Active Oxygen Species in SnO ₂ Based Gas Sensing Materials: An Operando IR Spectroscopy Study. Journal of Physical Chemistry C, 2015, 119, 11792-11799.	3.1	95
3	Platinum loaded tin dioxide: a model system for unravelling the interplay between heterogeneous catalysis and gas sensing. Journal of Materials Chemistry A, 2018, 6, 2034-2046.	10.3	88
4	Temperature-Dependent NO ₂ Sensing Mechanisms over Indium Oxide. ACS Sensors, 2017, 2, 1272-1277.	7.8	70
5	Gold-Loaded Tin Dioxide Gas Sensing Materials: Mechanistic Insights and the Role of Gold Dispersion. ACS Sensors, 2016, 1, 1322-1329.	7.8	67
6	Microfluidically synthesized Au, Pd and AuPd nanoparticles supported on SnO ₂ for gas sensing applications. Sensors and Actuators B: Chemical, 2019, 292, 48-56.	7.8	53
7	Exploiting Synergies in Catalysis and Gas Sensing using Noble Metal-Loaded Oxide Composites. ChemCatChem, 2018, 10, 864-880.	3.7	50
8	Structure and chemistry of surface-doped Pt:SnO ₂ gas sensing materials. RSC Advances, 2016, 6, 28149-28155.	3.6	47
9	Extending the toolbox for gas sensor research: Operando UV/vis diffuse reflectance spectroscopy on SnO ₂ -based gas sensors. Sensors and Actuators B: Chemical, 2016, 224, 256-259.	7.8	44
10	Trends and Advances in the Characterization of Gas Sensing Materials Based on Semiconducting Oxides. Sensors, 2018, 18, 3544.	3.8	30
11	Investigations on the Temperature-Dependent Interaction of Water Vapor with Tin Dioxide and Its Implications on Gas Sensing. ACS Sensors, 2020, 5, 3207-3216.	7.8	30
12	Rhodium Oxide Surface-Loaded Gas Sensors. Nanomaterials, 2018, 8, 892.	4.1	25
13	Structure-function relationships of conventionally and flame made Pd-doped sensors studied by X-ray absorption spectroscopy and DC-resistance. Sensors and Actuators B: Chemical, 2015, 219, 315-323.	7.8	21
14	TEXS: in-vacuum tender X-ray emission spectrometer with 11 Johansson crystal analyzers. Journal of Synchrotron Radiation, 2020, 27, 813-826.	2.4	19
15	Basics of semiconducting metal oxide-based gas sensors. , 2019, , 61-165.		17
16	Ceramic Sensors for Industrial Applications. , 2021, , 125-138.		0