

Ulrich Guth

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

284
citations

1040056

9
h-index

888059

17
g-index

20
all docs

20
docs citations

20
times ranked

190
citing authors

#	ARTICLE	IF	CITATIONS
1	Selectivity of HC-sensitive electrode materials for mixed potential gas sensors. Solid State Ionics, 2004, 169, 115-119.	2.7	62
2	Electrode materials for potentiometric hydrogen sensors. Solid State Ionics, 2006, 177, 2301-2304.	2.7	39
3	Response behavior of perovskites and Au/oxide composites as HC-electrodes in different combustibles. Solid State Ionics, 2004, 175, 531-533.	2.7	37
4	Electrochemical studies on cells M/YSZ/Pt (M=Pt, Pt?Ga2O3) in NO, O2, N2 gas mixtures. Solid State Ionics, 2004, 169, 121-128.	2.7	30
5	Mixed-potential gas sensor with layered Au,Pt-YSZ electrode: Investigating the sensing mechanism with steady state and dynamic electrochemical methods. Sensors and Actuators B: Chemical, 2017, 252, 554-560.	7.8	19
6	Electrochemical determination of dissolved nitrogen-containing explosives. Electrochimica Acta, 2014, 128, 85-90.	5.2	16
7	Mixed-potential gas sensor with PtAu-8YSZ sensing electrode: Electric potential difference measurements at isothermal and thermo-cyclic operation. Sensors and Actuators B: Chemical, 2015, 217, 107-112.	7.8	15
8	Layered Au,Pt-YSZ mixed potential gas sensing electrode: Correlation among sensing response, dynamic electrochemical behavior and structural properties. Sensors and Actuators B: Chemical, 2019, 278, 117-125.	7.8	14
9	Selectivity improvement towards hydrogen and oxygen of solid electrolyte sensors by dynamic electrochemical methods. Sensors and Actuators B: Chemical, 2019, 290, 53-58.	7.8	11
10	Enhanced studies on the mechanism of gas selectivity and electronic interactions of SnO2/Na+-ionic conductors. Sensors and Actuators B: Chemical, 2007, 120, 378-385.	7.8	8
11	Highly selective solid electrolyte sensor for the analysis of gaseous mixtures. Journal of Sensors and Sensor Systems, 2016, 5, 319-324.	0.9	8
12	Pyrolytic deposited graphite electrodes for voltammetric sensors: An alternative to nano structured electrodes. Sensors and Actuators A: Physical, 2016, 241, 212-215.	4.1	6
13	Stability improvement of layered Au,Pt-YSZ mixed-potential gas sensing electrodes by cathodic polarization: Studies by steady state and dynamic electrochemical methods. Sensors and Actuators B: Chemical, 2021, 342, 130065.	7.8	6
14	Influence of polarization time and polarization current of Pt YSZ-based NO sensors utilizing the pulsed polarization when applying constant charge. Sensors and Actuators B: Chemical, 2019, 290, 28-33.	7.8	4
15	Novel electrode materials for electrochemical sensors. , 2011, , .		2
16	Study of a Layered Au, Pt-YSZ Mixed-Potential Sensing Electrode by ESEM, XRD and GD-OES with Relation to Its Electrochemical Behaviour. Proceedings (mdpi), 2017, 1, .	0.2	2
17	Cyclic and square-wave voltammetry for selective simultaneous NO and O ₂ gas detection by means of solid electrolyte sensors. Journal of Sensors and Sensor Systems, 2020, 9, 355-362.	0.9	2
18	Separation of Sensitivity Contributions in Tin Oxide Thick Film Sensors by Transmission Line Model Measurements at Isothermal and Thermally Modulated Operation. Proceedings (mdpi), 2017, 1, 476.	0.2	1

#	ARTICLE	IF	CITATIONS
19	CO Gas Detection on Pt ^δ /YSZ ^δ /Pt Solid Electrolyte Sensors by Methods Based on Dynamic Voltage Variations. Journal of the Electrochemical Society, 2021, 168, 117506.	2.9	1
20	Influence of Pt paste and the firing temperature of screen-printed electrodes on the NO detection by pulsed polarization. Journal of Sensors and Sensor Systems, 2020, 9, 293-300.	0.9	1