

Lucrări științifice

Cele mai citate 10 articole:

1. „Conduction Model of Metal Oxide Gas Sensors”, **N. Bârsan** and U. Weimar, Journal of Electroceramics 7, 3 (2001) 143-167 DOI10.1023/A:1014405811371 **2247 citări**
2. „Metal oxide based gas sensor research: how to?”, **N. Bârsan**, D. Koziej and U. Weimar, Sensors and Actuators B 121 (2007) 18-35 DOI10.1016/j.snb.2006.09.047 **1395 citări**
3. „Electronic nose: Current status and future trends”, F. Rock, **N. Bârsan**, U. Weimar, Chemical Reviews 108, 2 (2008) 705-725 DOI10.1021/cr068121q **1134 citări**
4. „Fundamentals and Practical Applications to Design Nanoscaled SnO₂ Gas Sensors: A Status Report”, **N. Bârsan**, M. Schweizer-Berberich, and W. Göpel, Fresenius Journal of Analytical Chemistry (1999) 365, 287–304 DOI10.1007/s002160051490 **687 citări**
5. „Understanding the fundamental principles of metal oxide based gas sensors: the example of CO sensing with SnO₂ sensors in the presence of humidity”, **N. Bârsan** and U. Weimar, J. Phys.: Condens. Matter 15 (2003) R1-R27 PII S0953-8984(03)33587-8 **619 citări**
6. „Micromachined metal oxide gas sensors: Opportunities to improve sensor performance”, I. Simon, **N. Bârsan**, M. Bauer, and U. Weimar, Sensors and Actuators B: Chemical (2001) 73:1:1-26 DOI10.1016/S0925-4005(00)00639-0 **546 citări**
7. „Influence of humidity on CO sensing with p-type CuO thick film gas sensors”, M. Hübner, C.E. Simion, A. Tomescu-Stănoiu, S. Pokhrel, **N. Bârsan**, U. Weimar, Sensors and Actuators B 153, 2 (2011) 347-353 DOI10.1016/j.snb.2010.10.046 **482 citări**
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9. „Current Understanding of the Fundamental Mechanisms of Doped and Loaded Semiconducting Metal-Oxide-Based Gas Sensing Materials”, D. Degler, U. Weimar, **N. Bârsan** ACS Sensors 4, 9 (2019) 2228-2249 DOI: 10.1021/acssensors.9b00975 **369 citări**
10. „The Role of NiO Doping in Reducing the Impact of Humidity on the Performance of SnO₂-Based Gas Sensors: Synthesis Strategies, and Phenomenological and Spectroscopic Studies”, Hae-Ryong Kim, A. Haensch, Il-Doo Kim, **N. Bârsan**, U. Weimar, Jong-Heun Lee, Advanced Functional Materials 21, 23 (2011) 4456-4463 **359 citări**