

## Partial List of Joint-Publications TD1105 Year4

1. D. Puglisi, J. Eriksson, J. Huotari, M. Bastuck, A. Lloyd Spetz, M. Andersson  
*Exploring the gas sensing performance of catalytic metal/metal oxide 4H-SiC field effect transistors*  
Mat. Sci. Forum 858 (2016) 997-1000
2. M. Leidinger, J. Huotari, T. Sauerwald, J. Lappalainen, A. Schütze  
*Selective Detection of Naphthalene with Nanostructured WO<sub>3</sub> Gas Sensors prepared by Pulsed Laser Deposition*  
J. Sens. Sens. Syst. 5 (2016) 147-156
3. Monereo, S. Illera, A. Varea, M. Schmidt, T. Sauerwald, A. Schütze, Al. Cirera, J. D. Prades  
*Localized self-heating in large arrays of 1D nanostructures*  
Nanoscale 8 (2016) 5082-508
4. J. Huotari, J. Lappalainen, R. Bjorklund, E. Heinonen, I. Miinalainen, J. Puustinen, A. Lloyd Spetz  
*Synthesis of Nanostructured Solid-State Phases of V<sub>7</sub>O<sub>16</sub> and V<sub>2</sub>O<sub>5</sub> Compounds for ppb-Level Detection of Ammonia*  
J. Alloys and Compounds, 675 (2016) 433-440
5. J. Huotari, J. Lappalainen, J. Puustinen, T. Baur, C. Alépée, T. Haapalainen, S. Komulainen, Ju. Pylvänäinen, A. Lloyd Spetz:  
*Pulsed laser deposition of metal oxide nanoparticles, agglomerates, and nanotrees for chemical sensors*  
Procedia Engineering 120 (2015) 1158-1161
6. J. Huotari, W. Cao, Y. Niu, J. Lappalainen, J. Puustinen, V. Pankratov, A. Lloyd Spetz, M. Huttala  
*Separation of valence states in thin films with mixed V<sub>2</sub>O and V<sub>7</sub>O<sub>16</sub> phases*  
J. Electron Spectroscopy and Related Phenomena 211 (2016) 47-54
7. E. Dilonardo, M. Penza, M. Alvisi, C. Di Franco, F. Palmisano, L. Torsi, N. Cioffi  
*Evaluation of gas-sensing properties of ZnO nanostructures electrochemically doped with Au Nanophases*  
Beilstein J. Nanotechnol. 7 (2016) 22-31
8. M. Bastuck, D. Puglisi, J. Huotari, T. Sauerwald, J. Lappalainen, A. Lloyd Spetz, M. Andersson, A. Schütze  
*Exploring the selectivity of WO<sub>3</sub> with Iridium catalyst in an ethanol/naphthalene mixture using multivariate statistics*  
Thin Solid Films, Special Issue SGS 2015
9. E. Dilonardo, M. Penza, M. Alvisi, C. Di Franco, R. Rossi, F. Palmisano, L. Torsi, N. Cioffi  
*Electrophoretic deposition of Au NPs on MWCNT-based gas sensor for tailored gas detection with enhanced sensing properties*  
Sens. Act. B: Chem. 223 (2016) 417-428
10. Kumar, A. J. Brunet, C. Varenne, A. Ndiaye, A. Pauly, M. Penza, M. Alvisi

*Tetra-tert-butyl copper phthalocyanine-based QCM sensor for toluene detection in air at room temperature*

Sens. Act. B: Chem. 210 (2015) 398-407

**11.** M. Leidinger, M. Rieger, T. Sauerwald, C. Alépée, A. Schütze

*Integrated pre-concentrator gas sensor microsystem for ppb level benzene detection*

Sens. Act. B: Chem. 236 (2016) 988-996

**12.** S. Öztürk, A. Kösemen, Z. A. Kösemen, N. Kılınc, Z. Z. Öztürk, M. Penza

*Electrochemically growth of Pd doped ZnO nanorods on QCM for room temperature VOC sensors*

Sens. Act. B: Chem. 222 (2016) 280-289

**13.** J. Huotari, V. Kekkonen, T. Haapalainen, M. Leidinger, T. Sauerwald, J. Puustinen, J. Liimatainen, J. Lappalainen

*Pulsed Laser Deposition of Metal Oxide Nanostructures for Highly Sensitive Gas Sensor Applications*

Sens. Act. B: Chem. 236 (2016) 978-987

**14.** M. Bouvet, P. Gaudillat, A. Kumar, T. Sauerwald, M. Schüler, A. Schütze\*, J.-M. Suisse

*Revisiting the electronic properties of Molecular Semiconductor - Doped Insulator (MSDI) heterojunctions through impedance and chemosensing studies*

Org. Electron., 26, 345-354, 2015

**15.** C. Borrego, A.M. Costa, J. Ginja, M. Amorim, M. Coutinho, K. Karatzas, Th. Sioumis, N.

Katsifarakis, K. Konstantinidis, S. De Vito, E. Esposito, P. Smith, N. André, P. Gérard, L.A. Francis, N. Castell, P. Schneider, M. Viana, M.C. Minguillón, W. Reimringer, R.P. Otjes, O. von Sicard, R. Pohle, B. Elen, D. Suriano, V. Pfister, M. Prato, S. Dipinto, M. Penza

*Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise*  
Atmospheric Environment, Vol. 147, December 2016, 246 - 263