

- A. Khalil, J. J. Kim, H. L. Tuller, G. C. Rutledge, R. Hashaikeh, *Gas Sensing Behavior Of Electrospun Nickel Oxide Nanofibers: Effect Of Morphology And Microstructure*, *Sensors and Actuators B*, 227, 54-64 (2016), doi.10.1016/j.snb.2015.12.012

- Seon-Jin Choi, Sang-Joon Kim, Hee-Jin Cho, Ji-Su Jang, Yi-Min Lin, Harry L. Tuller, Gregory C. Rutledge, Il-Doo Kim, *WO₃ Nanofiber-Based Biomarker Detectors Enabled By Protein-Encapsulated Catalyst Self-Assembled On Polystyrene Colloid Templates*, *Small*, 12 [7], 911-920 (2016), DOI: 10.1002/sml.201502905

- J. G. Swallow, J. J. Kim, M. Kabir, J. F. Smith, H. L. Tuller, S. R. Bishop, and K. J. Van Vliet, *Operando Reduction Of Elastic Modulus In (Pr, Ce)O_{2-δ} Thin Films*, *Acta Mater.* 105, 16-24 (2016),
[doi:10.1016/j.actamat.2015.12.007](https://doi.org/10.1016/j.actamat.2015.12.007)

- M. Moors, K.K. Adepalli, Q. Lu, A. Wedig, C. Bäumer, K. Skaja, B. Arndt, H.L. Tuller, R. Dittmann, R. Waser, B. Yildiz, and I. Valov, *Investigating Resistive Switching Phenomena On TaO_x And SrRuO₃ Thin Film Surfaces With Scanning Tunneling Microscopy*, *ACS Nano* 10 [1], 1481-1492 (2016),
DOI:
10.1021/acsnano.5b07020

- P. Knauth, G. Harrington, S. R. Bishop, H. Saltsburg, H. L. Tuller, *CeO₂ Nano-Rods and-Nanocubes: Impact of Nanoparticle Shape on Dilatometry and Electrical Properties*, *J. Am. Ceram. Soc.* 99 [7], 2415–2421 (2016), DOI: 10.1111/jace.14257

- S.-J. Kim, S.-J. Choi, J.-S. Jang, N.-H. Kim, M. Hakim, H.L. Tuller, I.-D. Kim, *Mesoporous WO₃ Nanofibers with Protein Templated Nanoscale Catalysts for Detection of Trace Biomarkers in Exhaled Breath*, *ACS Nano*, 10 [6], 5891–5899 (2016).
DOI:
10.1021/acsnano.6b01196

- S.-J. Choi, S. Chattopadhyay, J. J. Kim, S.-J. Kim, H. L. Tuller, G. C. Rutledge, and I.-D. Kim, *Coaxial Electrospinning Of WO₃ Nanotubes Functionalized With Bio-Inspired Pd Catalyst And Their Superior Hydrogen Sensing Performance*, *Nanoscale*,
8

, 9159-9166 (2016), DOI: 10.1039/c5nr06611e

- J. Sheth, D. Chen, W.J. Bowman, P. Crozier, H. L. Tuller, S. T. Misture, S. Zdzieszynski, B.W. Sheldon, S. R. Bishop, *Coupling Of Strain, Stress, And Oxygen Non-Stoichiometry In Thin Film $Pr_{0.1}Ce_{0.9}O_{2-\delta}$* , *Nanoscale* **8**, 16499 – 16510 (2016). DOI: 10.1039/C6NR04083G

- V. Metlenko, W.-C. Jung, S.R. Bishop, H.L. Tuller, R.A. De Souza, *Oxygen Diffusion and Surface Exchange in the Mixed Conducting Oxides SrTi*

$_{1-y}$
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,
Phys.Chem.Chem.Phys

., *on line*

DOI: 10.1039/c6cp05756j

- K. Mukherjee, Y. Hayamizu, C. S. Kim, L. Kolchina, G. Mazo, S.Y. Istomin, S. R. Bishop, and H.L. Tuller, *Praseodymium Cuprate Thin Film Cathodes For Intermediate Temperature Solid Oxide Fuel Cells: Roles Of Doping, Orientation, and Crystal Structure*, *ACS Appl. Mater. Interfaces*, **8**, 34295-34302 (2016)

DOI:

10.1021/acsami.6b08977

1. W.-T. Koo, S.-J. Choi, S.-J. Kim, J.-S. Jang, Harry L. Tuller, I-D. Kim, *Heterogeneous Sensitization of Metal-Organic Framework Driven Metal@Metal Oxide Complex Catalysts on Oxide Nanofiber Scaffold Toward Superior Gas Sensors*, *J. Am. Chem. Soc.*, **138** (40), 13431-13437 (2016),

DOI:

10.1021/jacs.6b09167