

as of September 28, 2019

Functional Materials related papers

(other than sensor papers, ceramic microsystems related papers, and aerosol deposition papers)

N. Leupold, K. Schötz, S. Cacovich, I. Bauer, M. Schultz, M. Daubinger, L. Kaiser, A. Rebai, J. Rousset, A. Köhler, P. Schulz, R. Moos, F. Panzer:
High Versatility and Stability of Mechanochemically Synthesized Halide Perovskite Powders for Optoelectronic Devices
ACS Applied Materials & Interfaces, **11**, 30259-30268 (2019), doi: [10.1021/acsami.9b09160](https://doi.org/10.1021/acsami.9b09160)

S. Bresch, B. Mieller, D. Schönauer-Kamin, R. Moos, F. Giovanelli, T. Rabe:
Influence of pressure assisted sintering and reaction sintering on microstructure and thermoelectric properties of bi-doped and undoped calcium cobaltite
Journal of Applied Physics, **126**, 075102 (2019), doi: [10.1063/1.5107476](https://doi.org/10.1063/1.5107476)

T. Michlik, A. Rosin, T. Gerdes, R. Moos:
Improved Discharge Capacity of Zinc Particles by Applying Bismuth-Doped Silica Coating for Zinc-Based Batteries
Batteries, **5**, 32 (2019), doi: [10.3390/batteries5010032](https://doi.org/10.3390/batteries5010032)

M. Schubert, N. Leupold, J. Kita, R. Moos:
Oxygen partial pressure dependency of the electrical conductivity of aerosol deposited alumina films between 650 °C and 900 °C
Materials Letters, **245**, 208-210 (2019), doi: [10.1016/j.matlet.2019.02.094](https://doi.org/10.1016/j.matlet.2019.02.094)

P. Nieke, J. Kita, M. Häming, R. Moos:
Manufacturing Dense Thick Films of Lunar Regolith Simulant EAC-1 at Room Temperature
open access - free *Materials*, **12**, 487 (2019), doi: [10.3390/ma12030487](https://doi.org/10.3390/ma12030487)

M. Streibl, R. Karmazin, R. Moos:
Materials and Applications of Polymer Films for Power Capacitors with Special Respect to Nanocomposites
open access - free *IEEE Transactions on Dielectrics and Electrical Insulation*, **25**, 2429-242 (2018), doi: [10.1109/TDEI.2018.007392](https://doi.org/10.1109/TDEI.2018.007392)

J. Zimmermann-Ptacek, M. Muggli, S. Wildhack, K. Hintzer, T. Gerdes, M. Willert-Porada, R. Moos:
Thermal, dielectric, and mechanical properties of h-BN-filled PTFE composites
Journal of Applied Polymer Science, **135**, 46859 (2018), doi: [10.1002/APP.46859](https://doi.org/10.1002/APP.46859)

S. Bresch, B. Mieller, F. Delorme, C. Chen, M. Bektas, R. Moos, T. Rabe:
Influence of Reaction-Sintering and Calcination Conditions on Thermoelectric Properties of Sm-doped Calcium Manganate CaMnO₃
open access - free *Journal of Ceramic Science and Technology*, **9**, 289-300 (2018), doi: [10.4416/JCST2018-00017](https://doi.org/10.4416/JCST2018-00017)

T. Stöcker, R. Moos:
Effect of Oxygen Partial Pressure on the Phase Stability of Copper-Iron Delafossites at Elevated Temperatures
open access - free *Materials*, **11**, 1888 (2018), doi: [10.3390/ma11101888](https://doi.org/10.3390/ma11101888)

A. Engelbrecht, C. Uhlig, O. Stark, M. Hämmerle, G. Schmid, E. Magori, K. Wiesner-Fleischer, M. Fleischer, R. Moos:
On the Electrochemical CO₂ Reduction at Copper Sheet Electrodes with Enhanced Long-Term Stability by Pulsed Electrolysis
open access - free *Journal of the Electrochemical Society*, **165**, J3059-J3068 (2018), doi: [10.1149/2.0091815jes](https://doi.org/10.1149/2.0091815jes)

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On the Electrochemical CO₂ Reduction at Copper Sheet Electrodes with Enhanced Long-Term Stability by Pulsed Electrolysis
open access - free *Journal of the Electrochemical Society*, **165**, J3059-J3068 (2018), doi: [10.1149/2.0091815jes](https://doi.org/10.1149/2.0091815jes)

O. Isakin, S. Hiltl, O. Struck, M. Willert-Porada, R. Moos:
High-Yield Preparation of ZnO Nanoparticles on Exfoliated Graphite as Anode Material for Lithium Ion Batteries and the Effect of Particle Size as well as of Conductivity on the Electrochemical Performance of Such Composites
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U. Schadeck, K. Kyrgyzbaev, H. Zettl, T. Gerdes, R. Moos:
Flexible, Heat-Resistant, and Flame-Retardant Glass Fiber Nonwoven/Glass Platelet Composite Separator for Lithium-Ion Batteries
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On the defect chemistry of $\text{BaFe}_{0.89}\text{Al}_{0.01}\text{Ta}_{0.1}\text{O}_{3-\delta}$, a material for temperature independent resistive and thermoelectric oxygen sensors
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IEEE Transactions on Applied Superconductivity, **27**, 6200904 (2017), doi: [10.1109/TASC.2017.2669479](https://doi.org/10.1109/TASC.2017.2669479)

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