

Year 2017

Peer Reviewed Journals

S. Kauffmann-Weiss, W. Hässler, E. Guenther, J. Scheiter, S. Denneler, P. Glosse, T. Berthold, M. Oomen, T. Arndt, T. Stöcker, D. Hanft, R. Moos, M. Weiss, F. Weis, B. Holzapfel:

Superconducting properties of thick films on Hastelloy prepared by the Aerosol Deposition Method with ex-situ MgB₂ powder
IEEE Transactions on Applied Superconductivity, **27**, 6200904 (2017), doi: [10.1109/TASC.2017.2669479](https://doi.org/10.1109/TASC.2017.2669479)

M. Feulner, G. Hagen, K. Hottner, S. Redel, A. Müller, R. Moos:
Comparative Study of Different Methods for Soot Sensing and Filter Monitoring in Diesel Exhausts
open access - free *Sensors*, **17**, 400 (2017), doi: [10.3390/s17020400](https://doi.org/10.3390/s17020400)

A. Engelbrecht, M. Hämmerle, R. Moos, M. Fleischer, G. Schmid:
Improvement of the selectivity of the electrochemical conversion of CO₂ to hydrocarbons using cupreous electrodes with in-situ oxidation by oxygen
Electrochimica Acta, **224**, 642-648 (2017), doi: [10.1016/j.electacta.2016.12.059](https://doi.org/10.1016/j.electacta.2016.12.059)

Doctoral Theses

D. Rauch:
Mikrowellengestützte Untersuchung des NH₃-Speicherverhaltens von SCR-Katalysatormaterialien
(Microwave-based Characterization of the Ammonia Loading of SCR Catalysts Materials)
In: R. Moos, G. Fischerauer (Hrsg.), Bayreuther Beiträge zur Sensorik und Messtechnik, Bd. 20, Shaker-Verlag, Aachen (2017), ISBN: [978-3-8440-5081-3](https://www.isbn-international.org/product/978-3-8440-5081-3)

I. Marr:
Materialien für dosimeterartige Gassensoren zur Detektion im ppm- und Sub-ppm-Bereich
(Materials for dosimeter-type gas sensors for ppm- and sub-ppm-detection)
In: R. Moos, G. Fischerauer (Hrsg.), Bayreuther Beiträge zur Sensorik und Messtechnik, Bd. 19, Shaker-Verlag, Aachen (2017), ISBN: [978-3-8440-5022-6](https://www.isbn-international.org/product/978-3-8440-5022-6)

G. Beulertz:
Anwendung der hochfrequenzgestützten Zustandsdiagnose für Dreiwegekatalysatoren
(Application of the microwave-based state diagnosis for three way catalysts)
In: R. Moos, G. Fischerauer (Hrsg.), Bayreuther Beiträge zur Sensorik und Messtechnik, Bd. 18, Shaker-Verlag, Aachen (2017), ISBN: [978-3-8440-4988-6](https://www.isbn-international.org/product/978-3-8440-4988-6)

Year 2016

Peer Reviewed Journals

P. Chen, R. Moos, U. Simon:
Metal Loading Affects the Proton Transport Properties and the Reaction Monitoring Performance of Fe-ZSM-5 and Cu-ZSM-5 in NH₃-SCR
Journal of Physical Chemistry C, **120**, 25361-25370 (2016), doi: [10.1021/acs.jpcc.6b07353](https://doi.org/10.1021/acs.jpcc.6b07353)

F. Schubert, M. Gollner, J. Kita, F. Linseis, R. Moos:
Optimization of a sensor for a Tian-Calvet calorimeter with LTCC-based sensor discs
open access - free *Journal of Sensors and Sensors Systems*, **5**, 381-388 (2016), doi: [10.5194/jsss-5-381-2016](https://doi.org/10.5194/jsss-5-381-2016)

P. Chen, M. Jabłońska, P. Weide, T. Caumanns, T. Weirich, M. Muhler, R. Moos, R. Palkovits, U. Simon:
Formation and Effect of NH₄⁺ Intermediates in NH₃-SCR over Fe-ZSM-5 Zeolite Catalysts
ACS Catalysis, **6**, 7696-7700 (2016), doi: [10.1021/acscatal.6b02496](https://doi.org/10.1021/acscatal.6b02496)

G. Hagen, M. Feulner, R. Werner, M. Schubert, A. Müller, G. Rieß, D. Brüggemann, R. Moos:
Capacitive soot sensor for diesel exhausts
Sensors and Actuators B: Chemical, **236**, 1020-1027 (2016), doi: [10.1016/j.snb.2016.05.006](https://doi.org/10.1016/j.snb.2016.05.006)

P. Chen, J. Simböck, S. Schönebaum, D. Rauch, T. Simons, R. Palkovits, R. Moos, U. Simon:
Monitoring NH₃ storage and conversion in Cu-ZSM-5 and Cu-SAPO-34 catalysts for NH₃-SCR by simultaneous impedance and DRIFT spectroscopy
Sensors and Actuators B: Chemical, **236**, 1075-1082 (2016), doi: [10.1016/j.snb.2016.05.164](https://doi.org/10.1016/j.snb.2016.05.164)

R. Moos, D. Rauch, M. Votsmeier, D. Kubinski:
Review on Radio Frequency Based Monitoring of SCR and Three Way Catalysts
Topics in Catalysis, **59**, 961-969 (2016), doi: [10.1007/s11244-016-0575-1](https://doi.org/10.1007/s11244-016-0575-1)

F. Panzer, S. Baderschneider, T. Gujar, T. Unger, S. Bagnich, H. Bässler, M. Jakoby, S. Hüttner, J. Köhler, R. Moos, M. Thelakkat, R. Hildner, A. Köhler:
Reversible Laser Induced Amplified Spontaneous Emission from Coexisting Tetragonal and Orthorhombic Phases in Hybrid Lead Halide Perovskites
Advanced Optical Materials, **4**, 917-928 (2016), doi: [10.1002/adom.201500765](https://doi.org/10.1002/adom.201500765)

F. Schubert, M. Gollner, J. Kita, F. Linseis, R. Moos:
First steps to develop a sensor for a Tian-Calvet calorimeter with increased sensitivity
open access - free *Journal of Sensors and Sensors Systems*, **5**, 205-212 (2016), doi: [10.5194/jsss-5-205-2016](https://doi.org/10.5194/jsss-5-205-2016)

Y. Zheng, U. Sauter, R. Moos:

Investigation of Oxygen Transport Paths in Geometrically Defined Thick-Film Composite Pt Electrodes on YSZ
Journal of the Electrochemical Society, **163**, F877-F884 (2016), doi: [10.1149/2.1081608jes](https://doi.org/10.1149/2.1081608jes)

P. Chen, D. Rauch, P. Weide, S. Schönebaum, T. Simons, M. Muhler, R. Moos, U. Simon:

The effect of Cu and Fe cations on NH₃-supported proton transport in DeNO_x-SCR zeolite catalysts
Catalysis Science & Technology, **6**, 3362-3366 (2016), doi: [10.1039/C6CY00452K](https://doi.org/10.1039/C6CY00452K)

F. Panzer, D. Hanft, T.P. Gujar, F.-J. Kahle, M. Thelakkat, A. Köhler, R. Moos:

Compact Layers of Hybrid Halide Perovskites Fabricated via the Aerosol Deposition Process – Uncoupling Material Synthesis and Layer Formation
open access - free *Materials*, **9**, 277 (2016), doi: [10.3390/ma9040277](https://doi.org/10.3390/ma9040277)

T. Stöcker, J. Exner, M. Schubert, M. Streibl, R. Moos:

Influence of Oxygen Partial Pressure during Processing on the Thermoelectric Properties of Aerosol-Deposited CuFeO₂
open access - free *Materials*, **9**, 227 (2016), doi: [10.3390/ma9040227](https://doi.org/10.3390/ma9040227)

J. Exner, M. Schubert, D. Hanft, T. Stöcker, P. Fuierer, R. Moos:

Tuning of the electrical conductivity of Sr(Ti,Fe)O₃ oxygen sensing films by aerosol co-deposition with Al₂O₃
Sensors and Actuators B: Chemical, **230**, 427-433 (2016), doi: [10.1016/j.snb.2016.02.033](https://doi.org/10.1016/j.snb.2016.02.033)

A. Brandenburg, E. Wappler, J. Kita, R. Moos:

Miniaturized ceramic DSC device with strain gauge-based mass detection - First steps to realize a fully integrated DSC/TGA device
Sensors and Actuators A: Physical, **241**, 145-151 (2016), doi: [10.1016/j.sna.2016.02.011](https://doi.org/10.1016/j.sna.2016.02.011)

F. Schubert, S. Wollenhaupt, J. Kita, G. Hagen, R. Moos:

Platform to develop exhaust gas sensors manufactured by glass-solder-supported joining of sintered yttria-stabilized zirconia
open access - free *Journal of Sensors and Sensor Systems*, **5**, 25-32 (2016), doi: [10.5194/jsss-5-25-2016](https://doi.org/10.5194/jsss-5-25-2016)

D. Ortolino, J. Kita, K. Beart, R. Wurm, S. Kleinewig, A. Pletsch, R. Moos:

Failure of electrical vias manufactured in thick-film technology when loaded with short high current pulses
Microelectronics Reliability, **56**, 121-128 (2016), doi: [10.1016/j.microrel.2015.10.011](https://doi.org/10.1016/j.microrel.2015.10.011)

I. Pricha, W. Rossner, R. Moos:

Layered Ceramic Phosphors Based on CaAlSiN₃:Eu and YAG:Ce for White Light-Emitting Diodes
Journal of the American Ceramic Society, **99**, 211-217 (2016), doi: [10.1111/jace.13948](https://doi.org/10.1111/jace.13948)

T. Simons, P. Chen, D. Rauch, R. Moos, U. Simon:

Sensing catalytic conversion: Simultaneous DRIFT and impedance spectroscopy for *in situ* monitoring of NH₃-SCR on zeolites
Sensors and Actuators B: Chemical, **224**, 492-499 (2016), doi: [10.1016/j.snb.2015.10.069](https://doi.org/10.1016/j.snb.2015.10.069)

Book contributions

P. Fuierer, K. Ring, J. Exner, R. Moos:

BICU(TI)VOX as a Low/Intermediate Temperature SOFC Electrolyte: Another Look
In: T. Pfeifer, J. Matyáš, P. Balaya, D. Singh, J. Wei (Eds.): *Ceramics for Energy Conversion, Storage, and Distribution Systems: Ceramic Transactions*, Volume 255, John Wiley & Sons, Inc., Hoboken, New Jersey, USA, (2016), p. 29-40, ISBN: 978-1-119-23448-7 (print), ISSN: 1042-1122, doi: [10.1002/9781119234531.ch3](https://doi.org/10.1002/9781119234531.ch3)

R. Moos:

Mikrowellengestützte Systeme zur Zustandserkennung von Abgaskatalysatoren und Abgasfiltern im Überblick
In: T. Tille (Hrsg.), *Automobil-Sensorik - Ausgewählte Sensorprinzipien und deren automobiler Anwendung*, Springer-Verlag, Heidelberg (2016), p. 115-132, ISBN 978-3-662-48943-7 (gedruckt), ISBN 978-3-662-48944-4 (online), doi: [10.1007/978-3-662-48944-4_6](https://doi.org/10.1007/978-3-662-48944-4_6)

Doctoral Theses

S. Fischer:

Neuartiges Sensorprinzip basierend auf einer Spannungs-Puls-Methode zur Detektion von Stickoxiden an Zirkondioxid
(Novel zirconia sensor principle based on a voltage pulse method to detect nitrogen oxides)
In: R. Moos, G. Fischerauer (Hrsg.), *Bayreuther Beiträge zur Sensorik und Messtechnik*, Bd. 17, Shaker-Verlag, Aachen (2016), ISBN: [978-3-8440-4478-2](https://doi.org/978-3-8440-4478-2)

A. Groß:

Einfluss von NO_x auf die elektrische Leitfähigkeit von NO_x-Speichermaterialien und die Anwendung dieser Materialien für neuartige NO_x-Dosimeter
(The effect of NO_x on the electrical conductivity of NO_x storage materials and the application of these materials for novel NO_x dosimeters)
In: R. Moos, G. Fischerauer (Hrsg.), *Bayreuther Beiträge zur Sensorik und Messtechnik*, Bd. 16, Shaker-Verlag, Aachen (2016), ISBN: [978-3-8440-4217-7](https://doi.org/978-3-8440-4217-7)

W. Missal:

Miniaturisiertes Dynamisches Differenzkalorimeter in Mehrlagenkeramiktechnologie
(Miniaturized dynamic differential scanning calorimeter manufactured in low temperature co-fired ceramic multilayer technology)
In: R. Moos, G. Fischerauer (Hrsg.), *Bayreuther Beiträge zur Sensorik und Messtechnik*, Bd. 15, Shaker-Verlag, Aachen (2016), ISBN: [978-3-8440-4182-8](https://doi.org/978-3-8440-4182-8)

Year 2015

Peer Reviewed Journals

S. Fischer, D. Schönauer-Kamin, R. Pohle, M. Fleischer, R. Moos:

Influence of operation temperature variations on NO measurements in low concentrations when applying the pulsed polarization technique to thimble-type lambda probes

open access - free *Journal of Sensors and Sensor Systems*, **4**, 321-329 (2015), doi: [10.5194/jsss-4-321-2015](https://doi.org/10.5194/jsss-4-321-2015)

P. Chen, S. Schönebaum, T. Simons, D. Rauch, M. Dietrich, R. Moos, U. Simon:

Correlating the Integral Sensing Properties of Zeolites with Molecular Processes by Combining Broadband Impedance and DRIFT Spectroscopy—A New Approach for Bridging the Scales

open access - free *Sensors*, **15**, 28915-28941 (2015), doi: [10.3390/s151128915](https://doi.org/10.3390/s151128915)

M. Feulner, G. Hagen, A. Müller, A. Schott, C. Zöllner, D. Brüggemann, R. Moos:

Conductometric Sensor for Soot Mass Flow Detection in Exhausts of Internal Combustion Engines

open access - free *Sensors*, **15**, 28796-28806 (2015), doi: [10.3390/s151128796](https://doi.org/10.3390/s151128796)

D. Hanft, J. Exner, M. Schubert, T. Stöcker, P. Fuierer, R. Moos:

An Overview of the Aerosol Deposition Method: Process Fundamentals and New Trends in Materials Applications

open access - free *Journal of Ceramic Science and Technology*, **6**, 147-182 (2015), doi: [10.4416/JCST2015-00018](https://doi.org/10.4416/JCST2015-00018)

M. Dietrich, D. Rauch, U. Simon, A. Porch, R. Moos:

Ammonia Storage Studies on H-ZSM-5 Zeolites by Microwave Cavity Perturbation: Correlation of Dielectric Properties with Ammonia Storage

open access - free *Journal of Sensors and Sensor Systems*, **4**, 263-269 (2015), doi: [10.5194/jsss-4-263-2015](https://doi.org/10.5194/jsss-4-263-2015)

P. Fremerey, A. Jess, R. Moos:

Why does the Conductivity of a Nickel Catalyst Increase during Sulfidation? An Exemplary Study Using an *In Operando* Sensor Device

open access - free *Sensors*, **15**, 27021-27034 (2015), doi: [10.3390/s151027021](https://doi.org/10.3390/s151027021)

M. Dietrich, C. Jahn, P. Lanzerath, R. Moos:

Microwave-Based Oxidation State and Soot Loading Determination on Gasoline Particulate Filters with Three-Way Catalyst Coating for Homogenously Operated Gasoline Engines

open access - free *Sensors*, **15**, 21971-21988 (2015), doi: [10.3390/s150921971](https://doi.org/10.3390/s150921971)

G. Beulertz, M. Votsmeier, R. Moos:

In operando Detection of Three-Way Catalyst Aging by a Microwave-Based Method: Initial Studies

open access - free *Applied Sciences*, **5**, 174-186 (2015), doi: [10.3390/app5030174](https://doi.org/10.3390/app5030174)

J. Exner, M. Hahn, M. Schubert, D. Hanft, P. Fuierer, R. Moos:

Powder requirements for aerosol deposition of alumina films

Advanced Powder Technology, **26**, 1143-1151 (2015), doi: [10.1016/j.apt.2015.05.016](https://doi.org/10.1016/j.apt.2015.05.016)

R. Moos:

Microwave-Based Catalyst State Diagnosis - State of the Art and Future Perspectives

SAE International Journal of Engines, **8**, 1240-1245 (2015) doi: [10.4271/2015-01-1042](https://doi.org/10.4271/2015-01-1042)

D. Rauch, D. Kubinski, G. Cavataio, D. Upadhyay, R. Moos:

Ammonia Loading Detection of Zeolite SCR Catalysts using a Radio Frequency based Method

SAE International Journal of Engines, **8**, 1126-1135 (2015), doi: [10.4271/2015-01-0986](https://doi.org/10.4271/2015-01-0986)

G. Hagen, K. Burger, S. Wiegärtner, D. Schönauer-Kamin, R. Moos:

A mixed potential based sensor that measures directly catalyst conversion - A novel approach for catalyst on-board diagnostics

Sensors and Actuators B: Chemical, **217**, 158-164 (2015), doi: [10.1016/j.snb.2014.10.004](https://doi.org/10.1016/j.snb.2014.10.004)

S. Wiegärtner, G. Hagen, J. Kita, W. Reitmeier, M. Hien, P. Grass, R. Moos:

Thermoelectric hydrocarbon sensor in thick-film technology for on-board-diagnostics of a diesel oxidation catalyst

Sensors and Actuators B: Chemical, **214**, 234-240 (2015), doi: [10.1016/j.snb.2015.02.083](https://doi.org/10.1016/j.snb.2015.02.083)

P. Fremerey, A. Jess, R. Moos:

Is it possible to detect in situ the sulfur loading of a fixed bed catalysts with a sensor?

open access - free *Journal of Sensors and Sensor Systems*, **4**, 143-149 (2015), doi: [10.5194/jsss-4-143-2015](https://doi.org/10.5194/jsss-4-143-2015)

J. Kita, A. Engelbrecht, F. Schubert, A. Groß, F. Rettig, R. Moos:

Some practical points to consider with respect to thermal conductivity and electrical resistivity of ceramic substrates for high-temperature gas sensors

Sensors and Actuators B: Chemical, **213**, 541-546 (2015), doi: [10.1016/j.snb.2015.01.041](https://doi.org/10.1016/j.snb.2015.01.041)

I. Pricha, W. Rossner, R. Moos:

Pressureless sintering of luminescent CaAlSiN₃:Eu ceramics

Journal of Ceramic Science and Technology, **6**, 63-68 (2015), doi: [10.4416/JCST2014-00047](https://doi.org/10.4416/JCST2014-00047)

J. Exner, P. Fuierer, R. Moos:

Aerosol Codeposition of Ceramics: Mixtures of Bi₂O₃-TiO₂ and Bi₂O₃-V₂O₅

Journal of the American Ceramic Society, **98**, 717-723 (2015), doi: [10.1111/jace.13364](https://doi.org/10.1111/jace.13364)

R. Moos, G. Fischerauer:

Automotive Catalyst State Diagnosis Using Microwaves

open access - free *Oil & Gas Science and Technology*, **70**, 55-65 (2015), doi: [10.2516/ogst/2013203](https://doi.org/10.2516/ogst/2013203)

G. Beulertz, M. Votsmeier, R. Moos:

Effect of propene, propane, and methane on conversion and oxidation state of three-way catalysts: A microwave cavity perturbation study

Applied Catalysis B: Environmental, **165**, 369-377 (2015), doi: [10.1016/j.apcatb.2014.09.068](https://doi.org/10.1016/j.apcatb.2014.09.068)

D. Rauch, G. Albrecht, D. Kubinski, R. Moos:

A microwave-based method to monitor the ammonia loading of a vanadia-based SCR catalyst

Applied Catalysis B: Environmental, **165**, 36-42 (2015), doi: [10.1016/j.apcatb.2014.09.059](https://doi.org/10.1016/j.apcatb.2014.09.059)

Doctoral Theses

D. Ortolino:

Hochstromdurchkontaktierungen für die Hybridtechnik

(Electrical high load vias in hybrid thick-film technology)

In: R. Moos u. G. Fischerauer (Hrsg.), Bayreuther Beiträge zu Materialien und Prozessen, Bd. 6, Shaker-Verlag, Aachen (2015), ISBN: [978-3-8440-4089-0](https://www.isbn-international.org/product/978-3-8440-4089-0)

P. Fremerey:

In-situ-Sensorik zur Bestimmung der Schwefel- und Koksbeladung auf Festbettkatalysatoren

(In situ sensor to determine sulfur and coke loading on fixed bed catalyst)

In: R. Moos u. G. Fischerauer (Hrsg.), Bayreuther Beiträge zur Sensorik und Messtechnik, Bd. 14, Shaker-Verlag, Aachen (2015), ISBN: [978-3-8440-3473-8](https://www.isbn-international.org/product/978-3-8440-3473-8)

Irene Pricha:

Vollkeramische Leuchtstoffkomposite für weißemittierende Leuchtdioden

(Ceramic Composite Phosphors for White Light Emitting Diodes)

In: R. Moos u. G. Fischerauer (Hrsg.), Bayreuther Beiträge zu Materialien und Prozessen, Bd. 5, Shaker-Verlag, Aachen (2015), ISBN: [978-3-8440-3409-7](https://www.isbn-international.org/product/978-3-8440-3409-7)

D. Schönauer-Kamin:

Neuartiger Mischpotentialsensor zur Detektion von Ammoniak in Abgasen

(Novel Mixed Potential Sensor for the Detection of Ammonia in Exhaust Gases)

In: R. Moos u. G. Fischerauer (Hrsg.), Bayreuther Beiträge zur Sensorik und Messtechnik, Bd. 13, Shaker-Verlag, Aachen (2015), ISBN: [978-3-8440-3346-5](https://www.isbn-international.org/product/978-3-8440-3346-5)

Year 2014

Peer Reviewed Journals

D. Ortolino, A. Engelbrecht, H. Lauterbach, M. Bräu, J. Kita, R. Moos:

Effect of Repeated Firing on the Resistance of Screen-Printed Thick Film Conductors

open access - free *Journal of Ceramic Science and Technology*, **5**, 317-326 (2014), doi: [10.4416/JCST2014-00029](https://doi.org/10.4416/JCST2014-00029)

J. Exner, P. Fuierer, R. Moos:

Aerosol Deposition of (Cu,Ti) substituted Bismuth Vanadate Films

Thin Solid Films, **573**, 185-190 (2014), doi: [10.1016/j.tsf.2014.11.037](https://doi.org/10.1016/j.tsf.2014.11.037)

S. Schödel, R. Moos, M. Votsmeier, G. Fischerauer:

SI-Engine Control With Microwave-Assisted Direct Observation of Oxygen Storage Level in Three-Way Catalysts

IEEE Transactions on Control Systems Technology, **22**, 2346-2353 (2014), doi: [10.1109/TCST.2014.2305576](https://doi.org/10.1109/TCST.2014.2305576)

M. Bektas, D. Hanft, D. Schönauer-Kamin, T. Stöcker, G. Hagen, R. Moos:

Aerosol-deposited BaFe_{0.7}Ta_{0.3}O_{3-δ} for nitrogen monoxide and temperature-independent oxygen sensing

open access - free *Journal of Sensors and Sensor Systems*, **3**, 223-229 (2014), doi: [10.5194/jsss-3-223-2014](https://doi.org/10.5194/jsss-3-223-2014)

I. Marr, K. Neumann, M. Thelakkat, R. Moos:

Undoped and Doped Poly(tetraphenylbenzidine) as Sensitive Material for an Impedimetric Nitrogen Dioxide Gas Dosimeter

Applied Physics Letters, **105**, 133301 (2014), doi: [10.1063/1.4896847](https://doi.org/10.1063/1.4896847)

M. Dietrich, D. Rauch, A. Porch, R. Moos:

A laboratory test setup for in situ measurements of the dielectric properties of catalyst powder samples under reaction conditions by microwave cavity perturbation: set up and initial tests

open access - free *Sensors*, **14**, 16856-16868 (2014), doi: [10.3390/s140916856](https://doi.org/10.3390/s140916856)

M. Schubert, J. Exner, R. Moos:

Influence of carrier gas composition on the stress of Al₂O₃ coatings prepared by the Aerosol Deposition Method

open access - free *Materials*, **7**, 5633-5642 (2014), doi: [10.3390/ma7085633](https://doi.org/10.3390/ma7085633)

D. Rauch, D. Kubinski, U. Simon, R. Moos:

Detection of the ammonia loading of a Cu Chabazite SCR catalyst by a radio frequency-based method

Sensors and Actuators B: Chemical, **205**, 88-93 (2014), doi: [10.1016/j.snb.2014.08.019](https://doi.org/10.1016/j.snb.2014.08.019)

D. Schönauer-Kamin, M. Fleischer, R. Moos:

Influence of the V_2O_5 content of the catalyst layer of a non-Nernstian NH_3 sensor
Solid State Ionics, **262**, 270-273 (2014), doi: [10.1016/j.ssi.2013.08.035](https://doi.org/10.1016/j.ssi.2013.08.035)

S. Fischer, R. Pohle, E. Magori, M. Fleischer, R. Moos:

Detection of NO by Pulsed Polarization of Pt | YSZ
Solid State Ionics, **262**, 288-291 (2014), doi: [10.1016/j.ssi.2014.01.022](https://doi.org/10.1016/j.ssi.2014.01.022)

D. Chen, A. Groß, D.C. Bono, J. Kita, R. Moos, H.L. Tuller:

Electrical conductivity relaxation measurements: Application of low thermal mass heater stick
Solid State Ionics, **262**, 914-917 (2014), doi: [10.1016/j.ssi.2014.01.023](https://doi.org/10.1016/j.ssi.2014.01.023)

J.C. Brendel, M.M. Schmidt, G. Hagen, R. Moos, M. Thelakkat:

Controlled Synthesis of Water-Soluble Conjugated Polyelectrolytes Leading to Excellent Hole Transport Mobility
Chemistry of Materials, **26**, 1992-1998 (2014), doi: [10.1021/cm500500t](https://doi.org/10.1021/cm500500t)

T. Tesfamichael, M. Ahsan, M. Notarianni, A. Groß, G. Hagen, R. Moos, M. Ionescu, J. Bell:

Gas Sensing of Ruthenium Implanted Tungsten Oxide Thin Films
Thin Solid Films, **558**, 416-422 (2014), doi: [10.1016/j.tsf.2014.02.084](https://doi.org/10.1016/j.tsf.2014.02.084)

I. Marr, A. Groß, R. Moos:

Overview on Conductometric Solid-State Gas Dosimeters
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B. Plochmann, S. Lang, R. Rüger, R. Moos:

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