Ralf Moos

List of Publications by Year
in descending order

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337	8,608	57758	79698
papers	citations	44 h-index	73 g-index

344	344	344	7318
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of defect chemistry and microstructural effects of non-stoichiometric ceria by the high-temperature microwave cavity perturbation method. Journal of the European Ceramic Society, 2022, 42, 499-511.	5.7	3
2	Thin-film chemical expansion of ceria based solid solutions: laser vibrometry study. Zeitschrift Fur Physikalische Chemie, 2022, 236, 1013-1053.	2.8	7
3	Glassâ€ceramic composites as insulation material for thermoelectric oxide multilayer generators. Journal of the American Ceramic Society, 2022, 105, 2140-2149.	3.8	2
4	From Thermoelectric Powder Directly to Thermoelectric Generators: Flexible Bi₂Te₃ Films on Polymer Sheets Prepared by the Powder Aerosol Deposition Method at Room Temperature. Energy Technology, 2022, 10, .	3.8	2
5	Mobile sealing and repairing of damaged ceramic coatings by powder aerosol deposition at room temperature. Open Ceramics, 2022, 10, 100253.	2.0	1
6	Posttreatment of powder aerosol deposited oxide ceramic films by high power LED. International Journal of Applied Ceramic Technology, 2022, 19, 1540-1553.	2.1	6
7	Mixing Rules for an Exact Determination of the Dielectric Properties of Engine Soot Using the Microwave Cavity Perturbation Method and Its Application in Gasoline Particulate Filters. Sensors, 2022, 22, 3311.	3.8	4
8	Contributions of Pulsed Operation Along with Proper Choice of the Substrate for Stabilizing the Catalyst Performance in Electrochemical Reduction of CO₂ Toward Ethylene in Gas Diffusion Electrode Based Flow Cell Reactors. Energy Technology, 2022, 10, .	3.8	3
9	Temperature-dependent dielectric anomalies in powder aerosol deposited ferroelectric ceramic films. Journal of Materiomics, 2022, 8, 1239-1250.	5.7	3
10	Influence of pressure and dwell time on pressureâ€assisted sintering of calcium cobaltite. Journal of the American Ceramic Society, 2021, 104, 917-927.	3.8	5
11	Powder Treatment for Increased Thickness of Iron Coatings Produced by the Powder Aerosol Deposition Method and Formation of Ironâ€“Alumina Multilayer Structures. Journal of Thermal Spray Technology, 2021, 30, 480-487.	3.1	3
12	Suppressed ion migration in powder-based perovskite thick films using an ionic liquid. Journal of Materials Chemistry C, 2021, 9, 11827-11837.	5.5	5
13	Microscopic (Dis)order and Dynamics of Cations in Mixed FA/MA Lead Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 1742-1753.	3.1	28
14	Linking the Electrical Conductivity and Non-Stoichiometry of Thin Film Ce1âˆ’xZrxO2âˆ’Î´ by a Resonant Nanobalance Approach. Materials, 2021, 14, 748.	2.9	9
15	Electrical conductivity determination of semiconductors by utilizing photography, finite element simulation and resistance measurement. Journal of Materials Science, 2021, 56, 10449-10457.	3.7	2
16	Novel, low-cost device to simultaneously measure the electrical conductivity and the Hall coefficient from room temperature up to 600â€‰Â°C. Journal of Sensors and Sensor Systems, 2021, 10, 71-81.	0.9	3
17	Investigation of the Powder Aerosol Deposition Method Using Shadowgraph Imaging. Materials, 2021, 14, 2502.	2.9	9
18	Determination of water loading of supported ionic liquids by microwave analysis - A contribution for operando monitoring of gas drying by adsorption. Sensors and Actuators B: Chemical, 2021, 335, 129646.	7.8	1

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19	Powder Aerosol Deposition as a Method to Produce Garnetâ€Type Solid Ceramic Electrolytes: A Study on Electrochemical Film Properties and Industrial Applications. Energy Technology, 2021, 9, 2100211.	3.8	14
20	Discontinuous Powder Aerosol Deposition: An Approach to Prepare Films Using Smallest Powder Quantities. Coatings, 2021, 11, 844.	2.6	3
21	Electrical Conductivity of Halide Perovskites Follows Expectations from Classical Defect Chemistry. European Journal of Inorganic Chemistry, 2021, 2021, 2882-2889.	2.0	14
22	Comparison of the electrical conductivity of bulk and film Ce1â€“xZrxO2â€“Î´ in oxygen-depleted atmospheres at high temperatures. Journal of Materials Science, 2021, 56, 17191-17204.	3.7	8
23	Making powder aerosol deposition accessible for small amounts: A novel and modular approach to produce dense ceramic films. International Journal of Applied Ceramic Technology, 2021, 18, 2178.	2.1	4
24	Concept study with experimental proof for a new type of detector for gas chromatography. Sensors and Actuators B: Chemical, 2021, 346, 130490.	7.8	1
25	Gas evolution in electrochemical flow cell reactors induces resistance gradients with consequences for the positioning of the reference electrode. RSC Advances, 2021, 11, 28189-28197.	3.6	1
26	CO Gas Detection on Ptâ^£YSZâ^£Pt Solid Electrolyte Sensors by Methods Based on Dynamic Voltage Variations. Journal of the Electrochemical Society, 2021, 168, 117506.	2.9	1
27	Characterization of the sensitive material for a resistive NOx gas dosimeter by DRIFT spectroscopy. Sensors and Actuators B: Chemical, 2020, 320, 128568.	7.8	2
28	Impact of Pressure and Temperature on the Compaction Dynamics and Layer Properties of Powder-Pressed Methylammonium Lead Halide Thick Films. ACS Applied Electronic Materials, 2020, 2, 2619-2628.	4.3	14
29	Pulsed potential electrochemical CO2 reduction for enhanced stability and catalyst reactivation of copper electrodes. Electrochemistry Communications, 2020, 121, 106861.	4.7	30
30	Laserâ€Annealing of Thermoelectric CuFe 0.98 Sn 0.02 O 2 Films Produced by Powder Aerosol Deposition Method. Advanced Materials Interfaces, 2020, 7, 2001114.	3.7	10
31	Determination of the Dielectric Properties of Storage Materials for Exhaust Gas Aftertreatment Using the Microwave Cavity Perturbation Method. Sensors, 2020, 20, 6024.	3.8	15
32	Modelling the Influence of Different Soot Types on the Radio-Frequency-Based Load Detection of Gasoline Particulate Filters. Sensors, 2020, 20, 2659.	3.8	6
33	Investigating solid polymer and ceramic electrolytes for lithium-ion batteries by means of an extended Distribution of Relaxation Times analysis. Electrochimica Acta, 2020, 344, 136060.	5.2	45
34	What Happens during Thermal Postâ€Treatment of Powder Aerosol Deposited Functional Ceramic Films? Explanations Based on an Experimentâ€Enhanced Literature Survey. Advanced Materials, 2020, 32, e1908104.	21.0	35
35	Dense Y-doped ion conducting perovskite films of BaZrO3, BaSnO3, and BaCeO3 for SOFC applications produced by powder aerosol deposition at room temperature. International Journal of Hydrogen Energy, 2020, 45, 10000-10016.	7.1	50
36	The influence of nanoparticles and their functionalization on the dielectric properties of biaxially oriented polypropylene for power capacitors. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 468-475.	2.9	20

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37	Influence of Humidity and Different Gases on a Resistive Room Temperature NO₂ Gas Dosimeter Based on Al-Doped ZnO for ppb-Concentration Detection. Journal of the Electrochemical Society, 2020, 167, 167516.	2.9	10
38	Hochfrequenzsensorik zur direkten Beladungserkennung von Benzinpartikelfiltern. , 2020, , 185-208.		2
39	A Glass Platelet Coating on Battery Electrodes and Its Use as a Separator for Lithium-Ion Batteries. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	2.1	1
40	Influence of Pt paste and the firing temperature of screen-printed electrodes on the NO detection by pulsed polarization. Journal of Sensors and Sensor Systems, 2020, 9, 293-300.	0.9	1
41	Multi-gas sensor to detect simultaneously nitrogen oxides and oxygen. Journal of Sensors and Sensor Systems, 2020, 9, 327-335.	0.9	5
42	Cyclic and square-wave voltammetry for selective simultaneous NO and O₂ gas detection by means of solid electrolyte sensors. Journal of Sensors and Sensor Systems, 2020, 9, 355-362.	0.9	2
43	How to treat powders for the room temperature aerosol deposition method to avoid porous, low strength ceramic films. Journal of the European Ceramic Society, 2019, 39, 592-600.	5.7	47
44	In- and through-plane conductivity of 8YSZ films produced at room temperature by aerosol deposition. Journal of Materials Science, 2019, 54, 13619-13634.	3.7	13
45	High Versatility and Stability of Mechanochemically Synthesized Halide Perovskite Powders for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 30259-30268.	8.0	47
46	Sodium Borosilicate Glass Separators as an Electrolyte Additive Donor for Improving the Electrochemical Performance of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A3416-A3424.	2.9	4
47	Influence of ambient conditions on electrical partial discharge resistance of epoxy anhydride based polymers using IEC 60343 method. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1463-1470.	2.9	3
48	Aerosol Deposition Method - A Promising Novel Method to Produce Ceramic Gas Sensor Films at Room Temperature. , 2019, , .		0
49	Influence of pressure assisted sintering and reaction sintering on microstructure and thermoelectric properties of bi-doped and undoped calcium cobaltite. Journal of Applied Physics, 2019, 126, .	2.5	15
50	Novel Concept for Room Temperature NO2 Detection: Using Metal Oxides as Resistive Gas Dosimeters. , 2019, , .		0
51	Novel Operation Strategy to Obtain a Fast Gas Sensor for Continuous ppb-Level NO2 Detection at Room Temperature Using ZnOâ€"A Concept Study with Experimental Proof. Sensors, 2019, 19, 4104.	3.8	15
52	Catalyst State Diagnosis of Three-Way Catalytic Converters Using Different Resonance Parametersâ€"A Microwave Cavity Perturbation Study. Sensors, 2019, 19, 3559.	3.8	12
53	Powder aerosol deposition methodÂâ€" novel applications in the field of sensing and energy technology. Functional Materials Letters, 2019, 12, 1930005.	1.2	38
54	Simulation of a NOx Sensor for Model-Based Control of Exhaust Aftertreatment Systems. Topics in Catalysis, 2019, 62, 150-156.	2.8	6

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55	Oxidation State and Dielectric Properties of Ceria-Based Catalysts by Complementary Microwave Cavity Perturbation and X-Ray Absorption Spectroscopy Measurements. Topics in Catalysis, 2019, 62, 227-236.	2.8	13
56	Mechanistic Understanding of Cu-CHA Catalyst as Sensor for Direct NH₃-SCR Monitoring: The Role of Cu Mobility. ACS Applied Materials & Interfaces, 2019, 11, 8097-8105.	8.0	30
57	Investigation of the in situ calcination of aerosol co-deposited NiO-Mn₂O₃ films. Functional Materials Letters, 2019, 12, 1950039.	1.2	3
58	On the influence of the NO equilibrium reaction on mixed potential sensor signals: A comparison between FE modelling and experimental data. Sensors and Actuators B: Chemical, 2019, 296, 126627.	7.8	18
59	Novel Method for NTC Thermistor Production by Aerosol Co-Deposition and Combined Sintering. Sensors, 2019, 19, 1632.	3.8	11
60	Improved Discharge Capacity of Zinc Particles by Applying Bismuth-Doped Silica Coating for Zinc-Based Batteries. Batteries, 2019, 5, 32.	4.5	8
61	Influence of polarization time and polarization current of Pt|YSZ-based NO sensors utilizing the pulsed polarization when applying constant charge. Sensors and Actuators B: Chemical, 2019, 290, 28-33.	7.8	4
62	Dielectric properties and temperature dependency of automotive catalyst coatings and substrate materials: Experimental results, influences and approximation approach. Functional Materials Letters, 2019, 12, 1950024.	1.2	2
63	Operando Determination of the Thermal Decomposition of Supported Ionic Liquids by a Radio-Frequency-Based Method. ACS Omega, 2019, 4, 3351-3360.	3.5	1
64	Selectivity improvement towards hydrogen and oxygen of solid electrolyte sensors by dynamic electrochemical methods. Sensors and Actuators B: Chemical, 2019, 290, 53-58.	7.8	11
65	A finite element model for mixed potential sensors. Sensors and Actuators B: Chemical, 2019, 287, 476-485.	7.8	40
66	Modelling Both the NH3 Storage on Automotive SCR Catalysts and the Radio-Frequency-Based Response. Topics in Catalysis, 2019, 62, 172-178.	2.8	2
67	Oxygen partial pressure dependency of the electrical conductivity of aerosol deposited alumina films between 650â€Â°C and 900â€Â°C. Materials Letters, 2019, 245, 208-210.	2.6	1
68	Manufacturing Dense Thick Films of Lunar Regolith Simulant EAC-1 at Room Temperature. Materials, 2019, 12, 487.	2.9	11
69	Radio Frequency-Based Determination of the Oxygen and the NOx Storage Level of NOx Storage Catalysts. Topics in Catalysis, 2019, 62, 157-163.	2.8	9
70	Novel radio-frequency-based gas sensor withÂintegratedÂheater. Journal of Sensors and Sensor Systems, 2019, 8, 49-56.	0.9	6
71	Influence of the calcination procedure on the thermoelectric properties of calcium cobaltite Ca3Co4O9. Journal of Electroceramics, 2018, 40, 225-234.	2.0	16
72	Ultrasound-assisted one-pot syntheses of ZnO nanoparticles that are homogeneously adsorbed on exfoliated graphite and a simplified method to determine the graphite layer thickness in such composites. Journal of Materials Science, 2018, 53, 6586-6601.	3.7	3

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73	On the defect chemistry of BaFe0.89Al0.01Ta0.1O3â€, a material for temperature independent resistive and thermoelectric oxygen sensors. Solid State Ionics, 2018, 316, 1-8.	2.7	8
74	Oxygen transport paths in screen-printed Pt-Al2O3 composite model electrodes on YSZ. Solid State Ionics, 2018, 316, 53-58.	2.7	1
75	Influence of high temperature annealing on the dielectric properties of alumina films prepared by the aerosol deposition method. Functional Materials Letters, 2018, 11, 1850022.	1.2	7
76	Porous and non-porous micrometer-sized glass platelets as separators for lithium-ion batteries. Journal of Membrane Science, 2018, 550, 518-525.	8.2	25
77	Solid state mixed-potential sensors as direct conversion sensors for automotive catalysts. Sensors and Actuators B: Chemical, 2018, 255, 3025-3032.	7.8	32
78	Characterization of nickel manganite NTC thermistor films prepared by aerosol deposition at room temperature. Journal of the European Ceramic Society, 2018, 38, 613-619.	5.7	56
79	Exploiting Synergies in Catalysis and Gas Sensing using Noble Metalâ€Loaded Oxide Composites. ChemCatChem, 2018, 10, 864-880.	3.7	50
80	Effect of Ambient Conditions on the Resistance of Metal Oxides as a Novel Material for Outer Corona Protection Systems. , 2018, , .		0
81	Effect of Oxygen Partial Pressure on the Phase Stability of Copperâ€“Iron Delafossites at Elevated Temperatures. Materials, 2018, 11, 1888.	2.9	13
82	Annealing of Gadolinium-Doped Ceria (GDC) Films Produced by the Aerosol Deposition Method. Materials, 2018, 11, 2072.	2.9	12
83	Thermal Treatment of Aerosol Deposited NiMn2O4 NTC Thermistors for Improved Aging Stability. Sensors, 2018, 18, 3982.	3.8	25
84	Conductometric Soot Sensors: Internally Caused Thermophoresis as an Important Undesired Side Effect. Sensors, 2018, 18, 3531.	3.8	13
85	Materials and applications of polymer films for power capacitors with special respect to nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2429-2442.	2.9	37
86	Effect of the Heterogeneous Catalytic Activity of Electrodes for Mixed Potential Sensors. Journal of the Electrochemical Society, 2018, 165, B795-B803.	2.9	25
87	The Aerosol Deposition Method: A Modified Aerosol Generation Unit to Improve Coating Quality. Materials, 2018, 11, 1572.	2.9	25
88	Thermal, dielectric, and mechanical properties of hâ€BNâ€filled PTFE composites. Journal of Applied Polymer Science, 2018, 135, 46859.	2.6	17
89	Powder Pre-Treatment for Aerosol Deposition of Tin Dioxide Coatings for Gas Sensors. Materials, 2018, 11, 1342.	2.9	14
90	On the Electrochemical CO₂Reduction at Copper Sheet Electrodes with Enhanced Long-Term Stability by Pulsed Electrolysis. Journal of the Electrochemical Society, 2018, 165, J3059-J3068.	2.9	53

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91	Mechanical Coating of Zinc Particles with Bi2O3-Li2O-ZnO Glasses as Anode Material for Rechargeable Zinc-Based Batteries. Batteries, 2018, 4, 12.	4.5	20
92	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. Batteries, 2018, 4, 24.	4.5	2
93	Flexible, Heat-Resistant, and Flame-Retardant Glass Fiber Nonwoven/Glass Platelet Composite Separator for Lithium-Ion Batteries. Energies, 2018, 11, 999.	3.1	17
94	Towards an Electrochemical Immunosensor System with Temperature Control for Cytokine Detection. Sensors, 2018, 18, 1309.	3.8	6
95	Radio frequency- and impedance-based sensing of ionic liquids supported on porous carriers and their limitations. Sensors and Actuators B: Chemical, 2018, 273, 1564-1571.	7.8	3
96	High-Temperature Electrical Insulation Behavior of Alumina Films Prepared at Room Temperature by Aerosol Deposition and Influence of Annealing Process and Powder Impurities. Journal of Thermal Spray Technology, 2018, 27, 870-879.	3.1	23
97	Investigations on the crystal growth mechanism of one-pot-synthesized Al-doped ZnO and its UV-enhanced room temperature NO2 gas sensing characteristics. Functional Materials Letters, 2018, 11, 1850087.	1.2	4
98	Combined resistive and thermoelectric oxygen sensor with almost temperature-independent characteristics. Journal of Sensors and Sensor Systems, 2018, 7, 289-297.	0.9	16
99	A pathway to eliminate the gas flow dependency of a hydrocarbon sensor for automotive exhaust applications. Journal of Sensors and Sensor Systems, 2018, 7, 79-84.	0.9	6
100	Beladungsregelung eines NH3-SCR-Katalysator-Systems auf minimale NOx-Emissionen mittels Hochfrequenzsensorik. , 2018, , 225-244.		0
101	Influencing Parameters on the Microwave-Based Soot Load Determination of Diesel Particulate Filters. Topics in Catalysis, 2017, 60, 374-380.	2.8	11
102	Sensor Tool for Fast Catalyst Material Characterization. Topics in Catalysis, 2017, 60, 312-317.	2.8	6
103	Particulate Filter Substrates with SCR-Functionality Manufactured by Co-extrusion of Ceramic Substrate and SCR Active Material. Topics in Catalysis, 2017, 60, 204-208.	2.8	3
104	Microwave Cavity Perturbation Studies on H-form and Cu Ion-Exchanged SCR Catalyst Materials: Correlation of Ammonia Storage and Dielectric Properties. Topics in Catalysis, 2017, 60, 243-249.	2.8	19
105	Resistive NOx dosimeter to detect very low NOx concentrationsâ€"Proof-of-principle and comparison with classical sensing devices. Sensors and Actuators B: Chemical, 2017, 248, 848-855.	7.8	15
106	Superconducting Properties of Thick Films on Hastelloy Prepared by the Aerosol Deposition Method With Ex Situ MgB2 Powder. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	13
107	Improvement of the selectivity of the electrochemical conversion of CO2 to hydrocarbons using cupreous electrodes with in-situ oxidation by oxygen. Electrochimica Acta, 2017, 224, 642-648.	5.2	37
108	Effect of substrate hardness and surface roughness on the film formation of aerosol-deposited ceramic films. Functional Materials Letters, 2017, 10, 1750045.	1.2	14

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109	Radio Frequencyâ€Based In Situ Determination of the Mass Loss of Supported Ionic Liquids. Chemical Engineering and Technology, 2017, 40, 1660-1665.	1.5	5
110	Singleâ€Crystal Structure and Electronic Conductivity of Melt Synthesized Feâ€rich, near Endâ€Member Ferroâ€Kinoshitalite. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1661-1667.	1.2	0
111	Analysis of the characteristics of thick-film NTC thermistor devices manufactured by screen-printing and firing technique and by room temperature aerosol deposition method (ADM). Functional Materials Letters, 2017, 10, 1750073.	1.2	8
112	High-yield synthesis of ZnO nanoparticles homogeneously coated on exfoliated graphite and simplified method to determine the surface coverage. Surface and Coatings Technology, 2017, 325, 445-453.	4.8	6
113	Thick-films of garnet-type lithium ion conductor prepared by the Aerosol Deposition Method: The role of morphology and annealing treatment on the ionic conductivity. Journal of Power Sources, 2017, 361, 61-69.	7.8	42
114	Self-heated HTCC-based ceramic disc for mixed potential sensors and for direct conversion sensors for automotive catalysts. Sensors and Actuators B: Chemical, 2017, 248, 793-802.	7.8	23
115	Sensitivity Improvement of Thermoelectric Hydrocarbon Sensors: Combination of Glass-Ceramic Tapes and Alumina Substrates. Proceedings (mdpi), 2017, 1, 403.	0.2	2
116	Direct Catalyst Conversion Sensor in Form of a Single Self-Heated Mixed-Potential Device. Proceedings (mdpi), 2017, 1, .	0.2	0
117	Exhaust Gas Analysis of Firewood Combustion Processes: Application of a Robust Thermoelectric Gas Sensor. Proceedings (mdpi), 2017, 1, 457.	0.2	2
118	Comparative Study of Different Methods for Soot Sensing and Filter Monitoring in Diesel Exhausts. Sensors, 2017, 17, 400.	3.8	16
119	Radio-Frequency-Based NH3-Selective Catalytic Reduction Catalyst Control: Studies on Temperature Dependency and Humidity Influences. Sensors, 2017, 17, 1615.	3.8	10
120	Planar Microstrip Ring Resonators for Microwave-Based Gas Sensing: Design Aspects and Initial Transducers for Humidity and Ammonia Sensing. Sensors, 2017, 17, 2422.	3.8	62
121	Radio-Frequency-Controlled Urea Dosing for NH3-SCR Catalysts: NH3 Storage Influence to Catalyst Performance under Transient Conditions. Sensors, 2017, 17, 2746.	3.8	8
122	Pulsed Polarization-Based NOx Sensors of YSZ Films Produced by the Aerosol Deposition Method and by Screen-Printing. Sensors, 2017, 17, 1715.	3.8	14
123	Planar Microstrip Ring Resonator Structure for Gas Sensing and Humidity Sensing Purposes. Proceedings (mdpi), 2017, 1, 414.	0.2	0
124	2D SnS2â€"A Material for Impedance-Based Low Temperature NOx Sensing?. Proceedings (mdpi), 2017, 1, .	0.2	0
125	Simulation of a thermoelectric gas sensor that determines hydrocarbon concentrations in exhausts and the light-off temperature of catalyst materials. Journal of Sensors and Sensor Systems, 2017, 6, 395-405.	0.9	6
126	Influence of Oxygen Partial Pressure during Processing on the Thermoelectric Properties of Aerosol-Deposited CuFeO2. Materials, 2016, 9, 227.	2.9	24

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127	Compact Layers of Hybrid Halide Perovskites Fabricated via the Aerosol Deposition Processâ€"Uncoupling Material Synthesis and Layer Formation. Materials, 2016, 9, 277.	2.9	22
128	Investigation of Oxygen Transport Paths in Geometrically Defined Thick-Film Composite Pt Electrodes on YSZ. Journal of the Electrochemical Society, 2016, 163, F877-F884.	2.9	2
129	The effect of Cu and Fe cations on NH3-supported proton transport in DeNOx-SCR zeolite catalysts. Catalysis Science and Technology, 2016, 6, 3362-3366.	4.1	32
130	Failure of electrical vias manufactured in thick-film technology when loaded with short high current pulses. Microelectronics Reliability, 2016, 56, 121-128.	1.7	6
131	Formation and Effect of NH₄⁺ Intermediates in NH₃â€"SCR over Fe-ZSM-5 Zeolite Catalysts. ACS Catalysis, 2016, 6, 7696-7700.	11.2	68
132	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, 2016, 120, 25361-25370.	3.1	31
133	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, 2016, 236, 1075-1082.	7.8	24
134	Capacitive soot sensor for diesel exhausts. Sensors and Actuators B: Chemical, 2016, 236, 1020-1027.	7.8	16
135	Review on Radio Frequency Based Monitoring of SCR and Three Way Catalysts. Topics in Catalysis, 2016, 59, 961-969.	2.8	9
136	Reversible Laserâ€Induced Amplified Spontaneous Emission from Coexisting Tetragonal and Orthorhombic Phases in Hybrid Lead Halide Perovskites. Advanced Optical Materials, 2016, 4, 917-928.	7.3	40
137	Sensing catalytic conversion: Simultaneous DRIFT and impedance spectroscopy for in situ monitoring of NH3â€"SCR on zeolites. Sensors and Actuators B: Chemical, 2016, 224, 492-499.	7.8	21
138	Layered Ceramic Phosphors Based on CaAlSiN₃:Eu and YAG:Ce for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2016, 99, 211-217.	3.8	33
139	Tuning of the electrical conductivity of Sr(Ti,Fe)O3 oxygen sensing films by aerosol co-deposition with Al2O3. Sensors and Actuators B: Chemical, 2016, 230, 427-433.	7.8	37
140	Miniaturized ceramic DSC device with strain gauge-based mass detectionâ€"First steps to realize a fully integrated DSC/TGA device. Sensors and Actuators A: Physical, 2016, 241, 145-151.	4.1	8
141	First steps to develop a sensor for a Tianâ€"Calvet calorimeter with increased sensitivity. Journal of Sensors and Sensor Systems, 2016, 5, 205-212.	0.9	7
142	Platform to develop exhaust gas sensors manufactured by glass-solder-supported joining of sintered yttria-stabilized zirconia. Journal of Sensors and Sensor Systems, 2016, 5, 25-32.	0.9	7
143	MikrowellengestÃ¼tzte Systeme zur Zustandserkennung von Abgaskatalysatoren und Abgasfiltern im Ãœberblick. , 2016, , 115-132.		1
144	Optimization of a sensor for a Tianâ€"Calvet calorimeter with LTCC-based sensor discs. Journal of Sensors and Sensor Systems, 2016, 5, 381-388.	0.9	1

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145	Capacitive Soot Sensor. Procedia Engineering, 2015, 120, 241-244.	1.2	5
146	In situ monitoring of DeNO x -SCR on zeolite catalysts by means of simultaneous impedance and DRIFT spectroscopy. Procedia Engineering, 2015, 120, 257-260.	1.2	8
147	Screen-printable Type S Thermocouple for Thick-film Technology. Procedia Engineering, 2015, 120, 828-831.	1.2	11
148	Automotive Catalyst State Diagnosis Using Microwaves. Oil and Gas Science and Technology, 2015, 70, 55-65.	1.4	7
149	Correlating the Integral Sensing Properties of Zeolites with Molecular Processes by Combining Broadband Impedance and DRIFT Spectroscopyâ€"A New Approach for Bridging the Scales. Sensors, 2015, 15, 28915-28941.	3.8	30
150	In operando Detection of Three-Way Catalyst Aging by a Microwave-Based Method: Initial Studies. Applied Sciences (Switzerland), 2015, 5, 174-186.	2.5	21
151	Conductometric Sensor for Soot Mass Flow Detection in Exhausts of Internal Combustion Engines. Sensors, 2015, 15, 28796-28806.	3.8	13
152	Microwave-Based Oxidation State and Soot Loading Determination on Gasoline Particulate Filters with Three-Way Catalyst Coating for Homogenously Operated Gasoline Engines. Sensors, 2015, 15, 21971-21988.	3.8	23
153	Why does the Conductivity of a Nickel Catalyst Increase during Sulfidation? An Exemplary Study Using an In Operando Sensor Device. Sensors, 2015, 15, 27021-27034.	3.8	1
154	Microwave-Based Catalyst State Diagnosis - State of the Art and Future Perspectives. SAE International Journal of Engines, 2015, 8, 1240-1245.	0.4	26
155	Aerosol Codeposition of Ceramics: Mixtures of Bi₂O₃â€"TiO₂ and Bi₂O₃â€"V₂O₅. Journal of the American Ceramic Society, 2015, 98, 717-723.	3.8	20
156	Powder requirements for aerosol deposition of alumina films. Advanced Powder Technology, 2015, 26, 1143-1151.	4.1	55
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