Ralf Moos

List of Publications by Year
in descending order

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337	8,608	57631	79541
papers	citations	44 h-index	73 g-index

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

#	Article	IF	Citations
1	Defect Chemistry of Donorâ€Doped and Undoped Strontium Titanate Ceramics between 1000Â° and 1400Â°C. Journal of the American Ceramic Society, 1997, 80, 2549-2562.	1.9	482
2	Metal-Organic Frameworks for Sensing Applications in the Gas Phase. Sensors, 2009, 9, 1574-1589.	2.1	377
3	Electronic transport properties of Sr1â^'xLaxTiO3ceramics. Journal of Applied Physics, 1996, 80, 393-400.	1.1	204
4	Selective ammonia exhaust gas sensor for automotive applications. Sensors and Actuators B: Chemical, 2002, 83, 181-189.	4.0	192
5	A Brief Overview on Automotive Exhaust Gas Sensors Based on Electroceramics. International Journal of Applied Ceramic Technology, 2005, 2, 401-413.	1.1	179
6	Why does the electrical conductivity in PEDOT:PSS decrease with PSS content? A study combining thermoelectric measurements with impedance spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 976-983.	2.4	162
7	Solid State Gas Sensor Research in Germany â€“ a Status Report. Sensors, 2009, 9, 4323-4365.	2.1	134
8	Hall mobility of undoped n-type conducting strontium titanate single crystals between 19 K and 1373 K. Applied Physics A: Materials Science and Processing, 1995, 61, 389-395.	1.1	132
9	Zeolites â€" Versatile materials for gas sensors. Solid State Ionics, 2008, 179, 2416-2423.	1.3	129
10	Materials for temperature independent resistive oxygen sensors for combustion exhaust gas control. Sensors and Actuators B: Chemical, 2000, 67, 178-183.	4.0	127
11	Sulfur Removal from Lowâ€Sulfur Gasoline and Diesel Fuel by Metalâ€Organic Frameworks. Chemical Engineering and Technology, 2010, 33, 275-280.	0.9	121
12	Thermopower of Sr1â^'xLaxTiO3ceramics. Journal of Applied Physics, 1995, 78, 5042-5047.	1.1	109
13	Selective mixed potential ammonia exhaust gas sensor. Sensors and Actuators B: Chemical, 2009, 140, 585-590.	4.0	103
14	Resistive Oxygen Gas Sensors for Harsh Environments. Sensors, 2011, 11, 3439-3465.	2.1	91
15	Textured PMNâ€"PT and PMNâ€"PZT. Journal of the American Ceramic Society, 2008, 91, 929-933.	1.9	90
16	Temperature-independent resistive oxygen exhaust gas sensor for lean-burn engines in thick-film technology. Sensors and Actuators B: Chemical, 2003, 93, 43-50.	4.0	89
17	Hydrocarbon sensing with thick and thin film p-type conducting perovskite materials. Sensors and Actuators B: Chemical, 2005, 108, 102-112.	4.0	85
18	Development and working principle of an ammonia gas sensor based on a refined model for solvate supported proton transport in zeolites. Physical Chemistry Chemical Physics, 2003, 5, 5195-5198.	1.3	84

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19	Solubility of lanthanum in strontium titanate in oxygen-rich atmospheres. Journal of Materials Science, 1997, 32, 4247-4252.	1.7	82
20	Catalysts as Sensorsâ€"A Promising Novel Approach in Automotive Exhaust Gas Aftertreatment. Sensors, 2010, 10, 6773-6787.	2.1	71
21	Formation and Effect of NH₄⁺ Intermediates in NH₃â€"SCR over Fe-ZSM-5 Zeolite Catalysts. ACS Catalysis, 2016, 6, 7696-7700.	5.5	68
22	Influence of Carrier Gas Composition on the Stress of Al2O3 Coatings Prepared by the Aerosol Deposition Method. Materials, 2014, 7, 5633-5642.	1.3	62
23	Planar Microstrip Ring Resonators for Microwave-Based Gas Sensing: Design Aspects and Initial Transducers for Humidity and Ammonia Sensing. Sensors, 2017, 17, 2422.	2.1	62
24	Direct Catalyst Monitoring by Electrical Means: An Overview on Promising Novel Principles. Topics in Catalysis, 2009, 52, 2035-2040.	1.3	58
25	Selective impedance based gas sensors for hydrocarbons using ZSM-5 zeolite films with chromium(III)oxide interface. Sensors and Actuators B: Chemical, 2006, 119, 441-448.	4.0	56
26	Characterization of nickel manganite NTC thermistor films prepared by aerosol deposition at room temperature. Journal of the European Ceramic Society, 2018, 38, 613-619.	2.8	56
27	Powder requirements for aerosol deposition of alumina films. Advanced Powder Technology, 2015, 26, 1143-1151.	2.0	55
28	Ceramic meso hot-plates for gas sensors. Sensors and Actuators B: Chemical, 2004, 103, 91-97.	4.0	54
29	Assessment of the novel aerosol deposition method for room temperature preparation of metal oxide gas sensor films. Sensors and Actuators B: Chemical, 2009, 139, 394-399.	4.0	54
30	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.	1.3	53
31	Direct thermoelectric gas sensors: Design aspects and first gas sensors. Sensors and Actuators B: Chemical, 2007, 123, 413-419.	4.0	52
32	Application of V2O5/WO3/TiO2 for Resistive-Type SO2 Sensors. Sensors, 2011, 11, 2982-2991.	2.1	52
33	Dual Mode NOx Sensor: Measuring Both the Accumulated Amount and Instantaneous Level at Low Concentrations. Sensors, 2012, 12, 2831-2850.	2.1	52
34	Chemically synthesized one-dimensional zinc oxide nanorods for ethanol sensing. Sensors and Actuators B: Chemical, 2013, 187, 295-300.	4.0	52
35	Sensing the soot load in automotive diesel particulate filters by microwave methods. Measurement Science and Technology, 2010, 21, 035108.	1.4	50
36	Influence of the V2O5 content of the catalyst layer of a non-Nernstian NH3 sensor. Solid State Ionics, 2014, 262, 270-273.	1.3	50

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37	Exploiting Synergies in Catalysis and Gas Sensing using Noble Metalâ€Loaded Oxide Composites. ChemCatChem, 2018, 10, 864-880.	1.8	50
38	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.	3.8	50
39	Hot Plate Gas Sensors-Are Ceramics Better?. International Journal of Applied Ceramic Technology, 2005, 2, 383-389.	1.1	48
40	Method for detection of NO in exhaust gases by pulsed discharge measurements using standard zirconia-based lambda sensors. Sensors and Actuators B: Chemical, 2010, 147, 780-785.	4.0	47
41	Investigation of the electrode effects in mixed potential type ammonia exhaust gas sensors. Solid State Ionics, 2011, 192, 38-41.	1.3	47
42	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. Sensors, 2014, 14, 16856-16868.	2.1	47
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.	2.8	47
44	High Versatility and Stability of Mechanochemically Synthesized Halide Perovskite Powders for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 30259-30268.	4.0	47
45	Integrating nitrogen oxide sensor: A novel concept for measuring low concentrations in the exhaust gas. Sensors and Actuators B: Chemical, 2010, 145, 756-761.	4.0	46
46	Nanosized titania derived from a novel solâ€“gel process for ammonia gas sensor applications. Sensors and Actuators B: Chemical, 2011, 153, 329-334.	4.0	46
47	Controlled Synthesis of Water-Soluble Conjugated Polyelectrolytes Leading to Excellent Hole Transport Mobility. Chemistry of Materials, 2014, 26, 1992-1998.	3.2	46
48	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.	2.6	45
49	Human Eukaryotic Initiation Factor EIF2C1 Gene: cDNA Sequence, Genomic Organization, Localization to Chromosomal Bands 1p34â€“p35, and Expression. Genomics, 1999, 61, 210-218.	1.3	44
50	Conductometric Soot Sensor for Automotive Exhausts: Initial Studies. Sensors, 2010, 10, 1589-1598.	2.1	43
51	Effect of propene, propane, and methane on conversion and oxidation state of three-way catalysts: a microwave cavity perturbation study. Applied Catalysis B: Environmental, 2015, 165, 369-377.	10.8	43
52	Dependence of the Intrinsic Conductivity Minimum of SrTiO3 Ceramics on the Sintering Atmosphere. Journal of the American Ceramic Society, 1995, 78, 2569-2571.	1.9	42
53	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, 2015, 213, 541-546.	4.0	42
54	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.	4.0	42

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55	Half-Cell Potential Analysis of an Ammonia Sensor with the Electrochemical Cell Au | YSZ | Au, V2O5-WO3-TiO2. Sensors, 2013, 13, 4760-4780.	2.1	41
56	Catalyst State Observation via the Perturbation of a Microwave Cavity Resonator. Frequenz, 2008, 62, .	0.6	40
57	Monitoring the Ammonia Loading of Zeoliteâ€Based Ammonia SCR Catalysts by a Microwave Method. Chemical Engineering and Technology, 2011, 34, 791-796.	0.9	40
58	Reversible Laserâ€Induced Amplified Spontaneous Emission from Coexisting Tetragonal and Orthorhombic Phases in Hybrid Lead Halide Perovskites. Advanced Optical Materials, 2016, 4, 917-928.	3.6	40
59	A finite element model for mixed potential sensors. Sensors and Actuators B: Chemical, 2019, 287, 476-485.	4.0	40
60	Detection of the ammonia loading of a Cu Chabazite SCR catalyst by a radio frequency-based method. Sensors and Actuators B: Chemical, 2014, 205, 88-93.	4.0	39
61	Ammonia storage studies on H-ZSM-5 zeolites by microwave cavity perturbation: correlation of dielectric properties with ammonia storage. Journal of Sensors and Sensor Systems, 2015, 4, 263-269.	0.6	39
62	Zeolite-based Impedimetric Gas Sensor Device in Low-cost Technology for Hydrocarbon Gas Detection. Sensors, 2008, 8, 7904-7916.	2.1	38
63	Powder aerosol deposition methodÂâ€" novel applications in the field of sensing and energy technology. Functional Materials Letters, 2019, 12, 1930005.	0.7	38
64	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.	4.0	37
65	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.	2.6	37
66	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.	1.8	37
67	Electron mobility of Sr 1-x La x TiO 3 ceramics between 600 Â°C and 1300 Â°C. Applied Physics A: Materials Science and Processing, 1997, 65, 291-294.	1.1	36
68	Sensor for directly determining the exhaust gas recirculation rateâ€"EGR sensor. Sensors and Actuators B: Chemical, 2006, 119, 57-63.	4.0	36
69	Determination of the NOx Loading of an Automotive Lean NOx Trap by Directly Monitoring the Electrical Properties of the Catalyst Material Itself. Sensors, 2011, 11, 8261-8280.	2.1	36
70	ZSM-5 zeolite films on Si substrates grown by in situ seeding and secondary crystal growth and application in an electrochemical hydrocarbon gas sensor. Microporous and Mesoporous Materials, 2008, 111, 530-535.	2.2	35
71	Direct detection of formaldehyde in air by a novel NAD+- and glutathione-independent formaldehyde dehydrogenase-based biosensor. Talanta, 2008, 75, 786-791.	2.9	35
72	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.	11.1	35

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73	Thick-film impedance based hydrocarbon detection based on chromium(III) oxide/zeolite interfaces. Sensors and Actuators B: Chemical, 2006, 118, 73-77.	4.0	34
74	In-Operation Monitoring of the Soot Load of Diesel Particulate Filters: Initial Tests. Topics in Catalysis, 2013, 56, 483-488.	1.3	34
75	Ammonia Loading Detection of Zeolite SCR Catalysts using a Radio Frequency based Method. SAE International Journal of Engines, 0, 8, 1126-1135.	0.4	34
76	Recent Developments in the Field of Automotive Exhaust Gas Ammonia Sensing. Sensor Letters, 2008, 6, 821-825.	0.4	34
77	Overview on conductometric solid-state gas dosimeters. Journal of Sensors and Sensor Systems, 2014, 3, 29-46.	0.6	34
78	Aerosol deposition of (Cu,Ti) substituted bismuth vanadate films. Thin Solid Films, 2014, 573, 185-190.	0.8	33
79	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.	1.9	33
80	Poisoning of Temperature Independent Resistive Oxygen Sensors by Sulfur Dioxide. Journal of Electroceramics, 2004, 13, 733-738.	0.8	32
81	Zeolite cover layer for selectivity enhancement of p-type semiconducting hydrocarbon sensors. Sensors and Actuators B: Chemical, 2008, 133, 502-508.	4.0	32
82	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.	2.1	32
83	Solid state mixed-potential sensors as direct conversion sensors for automotive catalysts. Sensors and Actuators B: Chemical, 2018, 255, 3025-3032.	4.0	32
84	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.	1.5	31
85	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.	2.1	30
86	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.	4.0	30
87	Pulsed potential electrochemical CO2 reduction for enhanced stability and catalyst reactivation of copper electrodes. Electrochemistry Communications, 2020, 121, 106861.	2.3	30
88	Direct Thermoelectric Hydrocarbon Gas Sensors Based on ${m SnO}_{2}$. IEEE Sensors Journal, 2007, 7, 1490-1496.	2.4	29
89	Modeling of hydrocarbon sensors based on p-type semiconducting perovskites. Physical Chemistry Chemical Physics, 2007, 9, 635-642.	1.3	28
90	Miniaturized low temperature co-fired ceramics (LTCC) biosensor for amperometric gas sensing. Sensors and Actuators B: Chemical, 2008, 135, 89-95.	4.0	28

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91	Microscopic (Dis)order and Dynamics of Cations in Mixed FA/MA Lead Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 1742-1753.	1.5	28
92	Analysis of volatile alcohols in apple juices by an electrochemical biosensor measuring in the headspace above the liquid. Sensors and Actuators B: Chemical, 2011, 158, 313-318.	4.0	27
93	Thermoelectric hydrocarbon sensor in thick-film technology for on-board-diagnostics of a diesel oxidation catalyst. Sensors and Actuators B: Chemical, 2015, 214, 234-240.	4.0	27
94	Amperometric Enzymeâ€Based Biosensor for Direct Detection of Formaldehyde in the Gas Phase: Dependence on Electrolyte Composition. Electroanalysis, 2008, 20, 410-417.	1.5	26
95	Electrical In Situ Characterization of Three-Way Catalyst Coatings. Topics in Catalysis, 2009, 52, 1898-1902.	1.3	26
96	Combination of Wirebound and Microwave Measurements for In Situ Characterization of Automotive Three-Way Catalysts. IEEE Sensors Journal, 2011, 11, 434-438.	2.4	26
97	Overview: Status of the Microwave-Based Automotive Catalyst State Diagnosis. Topics in Catalysis, 2013, 56, 358-364.	1.3	26
98	Microwave-Based Catalyst State Diagnosis - State of the Art and Future Perspectives. SAE International Journal of Engines, 2015, 8, 1240-1245.	0.4	26
99	CO2 Selective Potentiometric Sensor in Thick-film Technology. Sensors, 2008, 8, 4774-4785.	2.1	25
100	TWC: Lambda Control and OBD without Lambda Probe - An Initial Approach. , 0, , .		25
101	Porous and non-porous micrometer-sized glass platelets as separators for lithium-ion batteries. Journal of Membrane Science, 2018, 550, 518-525.	4.1	25
102	Thermal Treatment of Aerosol Deposited NiMn2O4 NTC Thermistors for Improved Aging Stability. Sensors, 2018, 18, 3982.	2.1	25
103	Effect of the Heterogeneous Catalytic Activity of Electrodes for Mixed Potential Sensors. Journal of the Electrochemical Society, 2018, 165, B795-B803.	1.3	25
104	The Aerosol Deposition Method: A Modified Aerosol Generation Unit to Improve Coating Quality. Materials, 2018, 11, 1572.	1.3	25
105	Aerosol-deposited BaFe_{0.7}Ta_{0.3}O<sub>3-Î´&t for nitrogen monoxide and temperature-independent oxygen sensing. Journal of Sensors and Sensor Systems, 2014, 3, 223-229.	0.6	25
106	Sulfur adsorber for thick-film exhaust gas sensors. Sensors and Actuators B: Chemical, 2003, 93, 36-42.	4.0	24
107	Electrodeposited and Sol-gel Precipitated p-type SrTi1-xFexO3-Î´ Semiconductors for Gas Sensing. Sensors, 2007, 7, 1871-1886.	2.1	24
108	Microwave Cavity Perturbation as a Tool for Laboratory In Situ Measurement of the Oxidation State of Three Way Catalysts. Topics in Catalysis, 2013, 56, 405-409.	1.3	24

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109	Influence of Oxygen Partial Pressure during Processing on the Thermoelectric Properties of Aerosol-Deposited CuFeO2. Materials, 2016, 9, 227.	1.3	24
110	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.	4.0	24
111	Effect of electrodes and zeolite cover layer on hydrocarbon sensing with p-type perovskite SrTi0.8Fe0.2O3-Î´ thick and thin films. Journal of Materials Science, 2006, 41, 5828-5835.	1.7	23
112	Response kinetics of temperature-independent resistive oxygen sensor formulations: a comparative study. Sensors and Actuators B: Chemical, 2006, 113, 112-119.	4.0	23
113	Direct monitoring of organic vapours with amperometric enzyme gas sensors. Biosensors and Bioelectronics, 2010, 25, 1521-1525.	5.3	23
114	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.	2.1	23
115	A microwave-based method to monitor the ammonia loading of a vanadia-based SCR catalyst. Applied Catalysis B: Environmental, 2015, 165, 36-42.	10.8	23
116	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.	4.0	23
117	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.	1.6	23
118	Synthesis, Structure, and Electric Conductivity of Ferrous Tainiolite and Its Oxidative Conversion into Coarse-Grained Swellable Smectite. Chemistry of Materials, 2007, 19, 5377-5387.	3.2	22
119	Î±-Iron oxide: An intrinsically semiconducting oxide material for direct thermoelectric oxygen sensors. Sensors and Actuators B: Chemical, 2010, 145, 685-690.	4.0	22
120	Novel tube-type LTCC transducers with buried heaters and inner interdigitated electrodes as a platform for gas sensing at various high temperatures. Sensors and Actuators B: Chemical, 2013, 189, 80-88.	4.0	22
121	Compact Layers of Hybrid Halide Perovskites Fabricated via the Aerosol Deposition Processâ€"Uncoupling Material Synthesis and Layer Formation. Materials, 2016, 9, 277.	1.3	22
122	Effects of H2O, CO2, CO, and Flow Rates on the RF-Based Monitoring of Three-Way Catalysts. Sensor Letters, 2011, 9, 316-320.	0.4	22
123	Improvement of the sensitivity of a conductometric soot sensor by adding a conductive cover layer. Journal of Sensors and Sensor Systems, 2013, 2, 95-102.	0.6	22
124	Temperature-modulated direct thermoelectric gas sensors: thermal modeling and results for fast hydrocarbon sensors. Measurement Science and Technology, 2009, 20, 065205.	1.4	21
125	Miniaturized ceramic differential scanning calorimeter with integrated oven and crucible in LTCC technology. Sensors and Actuators A: Physical, 2011, 172, 21-26.	2.0	21
126	In operando Detection of Three-Way Catalyst Aging by a Microwave-Based Method: Initial Studies. Applied Sciences (Switzerland), 2015, 5, 174-186.	1.3	21

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127	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.	4.0	21
128	Magnetization in insulating phases of Ti4+-doped SrFeO3â¯Î´. Journal of Applied Physics, 2006, 99, 08S904.	1.1	20
129	Gas Diffusion Electrodes for Use in an Amperometric Enzyme Biosensor. Electroanalysis, 2008, 20, 2279-2286.	1.5	20
130	Amperometric Enzyme-based Gas Sensor for Formaldehyde: Impact of Possible Interferences. Sensors, 2008, 8, 1351-1365.	2.1	20
131	Thick-film solid electrolyte oxygen sensors using the direct ionic thermoelectric effect. Sensors and Actuators B: Chemical, 2009, 136, 530-535.	4.0	20
132	In situ Monitoring of Coke Deposits during Coking and Regeneration of Solid Catalysts by Electrical Impedanceâ€based Sensors. Chemical Engineering and Technology, 2010, 33, 103-112.	0.9	20
133	Planar potentiometric SO2 gas sensor for high temperatures using NASICON electrolyte combined with V2O5/WO3/TiO2 + Au or Pt electrode. Journal of the Ceramic Society of Japan, 2011, 119, 687-691.	0.5	20
134	Vanadia doped tungstenâ€“titania SCR catalysts as functional materials for exhaust gas sensor applications. Sensors and Actuators B: Chemical, 2011, 155, 199-205.	4.0	20
135	Gas sensing of ruthenium implanted tungsten oxide thin films. Thin Solid Films, 2014, 558, 416-422.	0.8	20
136	Aerosol Codeposition of Ceramics: Mixtures of Bi₂O₃â€“TiO₂ and Bi₂O₃â€“V₂O₅. Journal of the American Ceramic Society, 2015, 98, 717-723.	1.9	20
137	Mechanical Coating of Zinc Particles with Bi2O3-Li2O-ZnO Glasses as Anode Material for Rechargeable Zinc-Based Batteries. Batteries, 2018, 4, 12.	2.1	20
138	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.	1.8	20
139	Four-Wire Impedance Spectroscopy on Planar Zeolite/Chromium Oxide Based Hydrocarbon Gas Sensors. Sensors, 2007, 7, 2681-2692.	2.1	19
140	Processing issues related to the bi-dimensional ionic conductivity of BIMEVOX ceramics. Journal of Materials Science, 2011, 46, 5447-5453.	1.7	19
141	A mixed potential based sensor that measures directly catalyst conversionâ€”A novel approach for catalyst on-board diagnostics. Sensors and Actuators B: Chemical, 2015, 217, 158-164.	4.0	19
142	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.	1.3	19
143	Detection of water droplets on exhaust gas sensors. Sensors and Actuators B: Chemical, 2010, 148, 624-629.	4.0	18
144	The Effect of the Thickness of the Sensitive Layer on the Performance of the Accumulating NOx Sensor. Sensors, 2012, 12, 12329-12346.	2.1	18

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145	Determining the total amount of NOx in a gas stream â€“ Advances in the accumulating gas sensor principle. Sensors and Actuators B: Chemical, 2012, 175, 157-162.	4.0	18
146	Radio-Frequency-Based Urea Dosing Control for Diesel Engines with Ammonia SCR Catalysts. SAE International Journal of Engines, 0, 10, 1638-1645.	0.4	18
147	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.	4.0	18
148	Solid Electrolyte Hydrocarbon Gas Sensor Using Zeolite as the Sensitive Phase. Electrochemical and Solid-State Letters, 2006, 9, H31.	2.2	17
149	Selectivity enhancement of p-type semiconducting hydrocarbon sensorsâ€”The use of sol-precipitated nano-powders. Sensors and Actuators B: Chemical, 2008, 130, 470-476.	4.0	17
150	Pulsed polarization of platinum electrodes on YSZ. Solid State Ionics, 2012, 225, 371-375.	1.3	17
151	BaFe1-xTaxO3-Î´ â€“ A material for temperature independent resistive oxygen sensors. Sensors and Actuators B: Chemical, 2014, 190, 208-213.	4.0	17
152	Thermal, dielectric, and mechanical properties of hâ€BNâ€filled PTFE composites. Journal of Applied Polymer Science, 2018, 135, 46859.	1.3	17
153	Flexible, Heat-Resistant, and Flame-Retardant Glass Fiber Nonwoven/Glass Platelet Composite Separator for Lithium-Ion Batteries. Energies, 2018, 11, 999.	1.6	17
154	Morphology dependence of thermopower and conductance in semiconducting oxides with space charge regions. Solid State Ionics, 2008, 179, 2299-2307.	1.3	16
155	Sensor for Directly Determining the State of a NOx Storage Catalyst. , 2008, , .		16
156	Perovskite-type proton conductor for novel direct ionic thermoelectric hydrogen sensor. Solid State Ionics, 2011, 192, 101-104.	1.3	16
157	Planar Zeolite Film-Based Potentiometric Gas Sensors Manufactured by a Combined Thick-Film and Electroplating Technique. Sensors, 2011, 11, 7736-7748.	2.1	16
158	Capacitive soot sensor for diesel exhausts. Sensors and Actuators B: Chemical, 2016, 236, 1020-1027.	4.0	16
159	Comparative Study of Different Methods for Soot Sensing and Filter Monitoring in Diesel Exhausts. Sensors, 2017, 17, 400.	2.1	16
160	Influence of the calcination procedure on the thermoelectric properties of calcium cobaltite Ca3Co4O9. Journal of Electroceramics, 2018, 40, 225-234.	0.8	16
161	Integrating NOx Sensor for Automotive Exhaustsâ€”A Novel Concept. Sensor Letters, 2011, 9, 311-315.	0.4	16
162	Combined resistive and thermoelectric oxygen sensor with almost temperature-independent characteristics. Journal of Sensors and Sensor Systems, 2018, 7, 289-297.	0.6	16

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