Johannes W Schwank

List of Publications by Year
in descending order

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186 papers	7,738 citations	44069 48 h-index	66911 78 g-index
186 all docs	186 docs citations	186 times ranked	7600 citing authors

#	Article	IF	Citations
1	Effect of preparation methods on the catalytic activity of La0.9Sr0.1CoO3 perovskite for CO and C3H6 oxidation. Catalysis Today, 2021, 364, 7-15.	4.4	29
2	Understanding the chemistry during the preparation of Pd/SSZ-13 for the low-temperature NO adsorption: The role of NH4-SSZ-13 support. Applied Catalysis B: Environmental, 2021, 282, 119611.	20.2	27
3	Progress and future challenges in passive NO adsorption over Pd/zeolite catalysts. Catalysis Science and Technology, 2021, 11, 5986-6000.	4.1	35
4	Insight into hydrothermal aging effect on deactivation of Pd/SSZ-13 as low-temperature NO adsorption catalyst: Effect of dealumination and Pd mobility. Applied Catalysis B: Environmental, 2021, 286, 119874.	20.2	33
5	Improving the thermal stability and n-butanol oxidation activity of Ag-TiO2 catalysts by controlling the catalyst architecture and reaction conditions. Applied Catalysis B: Environmental, 2021, 297, 120476.	20.2	12
6	Chemical surface modification of beaded activated carbon: A strategy to inhibit heel accumulation from VOC. Journal of Industrial and Engineering Chemistry, 2021, 103, 205-215.	5.8	4
7	Stabilizing Highly Dispersed Halo Sites in Thermally Restructured Palladium Core@Shell Nanoparticles for Improved Catalyst Activity and Durability. ACS Applied Nano Materials, 2021, 4, 10985-10998.	5.0	2
8	Electronic metal-support interactions in Pt/FeO nanospheres for CO oxidation. Catalysis Today, 2020, 355, 539-546.	4.4	23
9	Catalytic performance and reaction mechanism of NO oxidation over Co3O4 catalysts. Applied Catalysis B: Environmental, 2020, 267, 118371.	20.2	47
10	Thermally Induced Restructuring of Pd@CeO₂ and Pd@SiO₂ Nanoparticles as a Strategy for Enhancing Low-Temperature Catalytic Activity. ACS Catalysis, 2020, 10, 1731-1741.	11.2	39
11	Activation of passive NOx adsorbers by pretreatment with reaction gas mixture. Chemical Engineering Journal, 2020, 399, 125727.	12.7	18
12	Reaction mechanism of propane oxidation over Co3O4 nanorods as rivals of platinum catalysts. Chemical Engineering Journal, 2020, 402, 125911.	12.7	45
13	Catalytic oxidation of CO over Pt/Fe3O4 catalysts: Tuning O2 activation and CO adsorption. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	21
14	A review on oxygen storage capacity of CeO2-based materials: Influence factors, measurement techniques, and applications in reactions related to catalytic automotive emissions control. Catalysis Today, 2019, 327, 90-115.	4.4	213
15	Reactivity study of CO+NO reaction over Pd/Al2O3 and Pd/CeZrO2 catalysts. Catalysis Today, 2019, 323, 148-158.	4.4	17
16	Effect of Ce and La dopants in Co₃O₄ nanorods on the catalytic activity of CO and C₃H₆ oxidation. Catalysis Science and Technology, 2019, 9, 1165-1177.	4.1	49
17	Effect of Sn addition on improving the stability of Ni-Ce0.8Sm0.2O1.9 anode material for solid oxide fuel cells fed with dry CH4. Catalysis Today, 2019, 330, 209-216.	4.4	22
18	Palladium redispersion at high temperature within the Pd@SiO2 core@shell structure. Catalysis Communications, 2018, 108, 73-76.	3.3	19

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19	Shape dependence and sulfate promotion of CeO2 for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2018, 232, 246-259.	20.2	160
20	Pd model catalysts: Effect of air pulse length during redox aging on Pd redispersion. Applied Catalysis B: Environmental, 2018, 223, 76-90.	20.2	33
21	Indium-doped Co 3 O 4 nanorods for catalytic oxidation of CO and C 3 H 6 towards diesel exhaust. Applied Catalysis B: Environmental, 2018, 222, 44-58.	20.2	155
22	Fe₂O₃@SiTi coreâ€“shell catalyst for the selective catalytic reduction of NO_x with NH₃: activity improvement and HCl tolerance. Catalysis Science and Technology, 2018, 8, 3313-3320.	4.1	36
23	Sodium-promoted Ag/CeO2 nanospheres for catalytic oxidation of formaldehyde. Chemical Engineering Journal, 2018, 350, 419-428.	12.7	84
24	New approaches to water purification for resource-constrained settings: Production of activated biochar by chemical activation with diammonium hydrogenphosphate. Frontiers of Chemical Science and Engineering, 2018, 12, 194-208.	4.4	12
25	Facile, one-pot synthesis of Pd@CeO2 core@shell nanoparticles in aqueous environment by controlled hydrolysis of metalloorganic cerium precursor. Materials Letters, 2017, 206, 105-108.	2.6	19
26	Synthesis and evaluation of mesopore structured ZSM-5 and a CuZSM-5 catalyst for NH₃-SCR reaction: studies of simulated exhaust and engine bench testing. RSC Advances, 2016, 6, 102570-102581.	3.6	13
27	Pd model catalysts: Effect of aging environment and lean redispersion. Applied Catalysis B: Environmental, 2016, 183, 343-360.	20.2	29
28	Pd model catalysts: Effect of aging duration on lean redispersion. Applied Catalysis B: Environmental, 2016, 185, 189-202.	20.2	15
29	DRIFTS study of photo-assisted catalytic CO + NO redox reaction over CuO/CeO2-TiO2. Catalysis Today, 2015, 258, 139-147.	4.4	32
30	Ni-Based Monolith n-Dodecane Reforming Catalysts: Optimization of O/C and Effect of Ni Interaction with Cordierite. Industrial & Engineering Chemistry Research, 2015, 54, 4136-4147.	3.7	1
31	Aging, re-dispersion, and catalytic oxidation characteristics of model Pd/Al2O3 automotive three-way catalysts. Applied Catalysis B: Environmental, 2015, 163, 499-509.	20.2	74
32	One-pot oxydehydration of glycerol to value-added compounds over metal-doped SiW/HZSM-5 catalysts: Effect of metal type and loading. Chemical Engineering Journal, 2015, 275, 113-124.	12.7	32
33	Strontium-doped samarium manganite as cathode materials for oxygen reduction reaction in solid oxide fuel cells. Journal of Power Sources, 2015, 284, 272-278.	7.8	23
34	Nature of the two-step temperature-programmed decomposition of PdO supported on alumina. Applied Catalysis A: General, 2014, 475, 420-426.	4.3	21
35	Effect of diluent gas on ethylene epoxidation activity over various Ag-based catalysts on selective oxide supports. Journal of Molecular Catalysis A, 2014, 386, 5-13.	4.8	10
36	Crystalline structure refinements and properties of Ni/TiO2 and Ni/TiO2-Ce catalysts and application to catalytic reaction of â€œCO+NOâ€• Applied Catalysis A: General, 2014, 478, 21-29.	4.3	10

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37	A review on TiO2-based nanotubes synthesized via hydrothermal method: Formation mechanism, structure modification, and photocatalytic applications. Catalysis Today, 2014, 225, 34-51.	4.4	438
38	Evaluation of Ni/SDC as anode material for dry CH4 fueled Solid Oxide Fuel Cells. Journal of Power Sources, 2014, 248, 239-245.	7.8	35
39	In situ tracing of atom migration in Pt/NiPt hollow spheres during catalysis of CO oxidation. Chemical Communications, 2014, 50, 1804.	4.1	24
40	Structural evolution of NiAu nanoparticles under ambient conditions directly revealed by atom-resolved imaging combined with DFT simulation. Nanoscale, 2014, 6, 12898-12904.	5.6	9
41	Gasification characteristics of carbon species derived from model reforming compound over Ni/Ceâ€“Zrâ€“O catalysts. Catalysis Today, 2014, 233, 14-20.	4.4	22
42	Comparative study on the influence of second metals on Ag-loaded mesoporous SrTiO3 catalysts for ethylene oxide evolution. Journal of Molecular Catalysis A, 2013, 372, 175-182.	4.8	15
43	Sustainable H2 production from ethanol steam reforming over a macro-mesoporous Ni/Mg-Al-O catalytic monolith. Frontiers of Chemical Science and Engineering, 2013, 7, 270-278.	4.4	7
44	Preparation of supported POM catalysts for liquid phase oxydehydration of glycerol to acrylic acid. Journal of Molecular Catalysis A, 2013, 380, 49-56.	4.8	41
45	Improvement of Activity and SO₂ Tolerance of Sn-Modified MnO_xâ€“CeO₂ Catalysts for NH₃-SCR at Low Temperatures. Environmental Science & Technology, 2013, 47, 5294-5301.	10.0	378
46	Ethylene Epoxidation Activity Over Ag-Based Catalysts on Different Nanocrystalline Perovskite Titanate Supports. Catalysis Letters, 2012, 142, 991-1002.	2.6	16
47	Synthesis of Ni@SiO₂ Nanotube Particles in a Water-in-Oil Microemulsion Template. Chemistry of Materials, 2012, 24, 2635-2644.	6.7	63
48	Effect of Sn on MnO â€“CeO2 catalyst for SCR of NO by ammonia: Enhancement of activity and remarkable resistance to SO2. Catalysis Communications, 2012, 27, 54-57.	3.3	155
49	Effects of oxide supports on ethylene epoxidation activity over Ag-based catalysts. Journal of Molecular Catalysis A, 2012, 358, 58-66.	4.8	31
50	High-Temperature Photocatalytic Ethylene Oxidation over TiO₂. Journal of Physical Chemistry C, 2011, 115, 16537-16543.	3.1	52
51	Preparation of Au/Y2O3 and Au/NiO catalysts by co-precipitation and their oxidation activities. Materials Chemistry and Physics, 2011, 126, 212-219.	4.0	15
52	Reactivity of NH3 over (Fe)/H-ZSM-5 zeolite: Studies of temperature-programmed and steady-state reactions. Catalysis Today, 2011, 175, 2-11.	4.4	12
53	Effect of metal particle size on sulfur tolerance of Ni catalysts during autothermal reforming of isooctane. Applied Catalysis A: General, 2011, 400, 203-214.	4.3	28
54	Oxidation of Oxygenated Volatile Organic Compound Over Monometallic and Bimetallic Ruâ€“Au Catalysts. Catalysis Letters, 2010, 138, 160-170.	2.6	15

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55	Influence of thiophene on the isooctane reforming activity of Ni-based catalysts. Journal of Catalysis, 2010, 271, 140-152.	6.2	30
56	Isooctane decomposition and carbon deposition over ceriaâ€“zirconia supported nickel catalysts. Applied Catalysis A: General, 2010, 386, 83-93.	4.3	22
57	Effects of synthesis conditions on dimensions, structure, and oxygen content of photocatalytically active titania nanotubes. Journal of Materials Research, 2010, 25, 89-95.	2.6	5
58	Characterization of uniform, nanodispersed NOx storage catalyst materials synthesized by successive ionic layer deposition. Catalysis Communications, 2010, 11, 896-900.	3.3	5
59	Solid-state transformation of hollow silica microspheres into hierarchical ZSM-5 having tunable mesopores. Catalysis Communications, 2010, 11, 700-704.	3.3	15
60	Direct Electrochemical Oxidation of Hydrocarbon Fuels on SOFCs: Improved Carbon Tolerance of Ni Alloy Anodes. Journal of the Electrochemical Society, 2009, 156, B1312.	2.9	66
61	Comparative study of the kinetics of methane steam reforming on supported Ni and Sn/Ni alloy catalysts: The impact of the formation of Ni alloy on chemistry. Journal of Catalysis, 2009, 263, 220-227.	6.2	151
62	The effect of downstream synthesis gas feeding on Fischerâ€“Tropsch product distributions. Fuel Processing Technology, 2009, 90, 1009-1015.	7.2	4
63	n-Dodecane reforming over monolith-based Ni catalysts: SEM study of axial carbon distribution profile. Applied Catalysis A: General, 2009, 356, 137-147.	4.3	24
64	Measuring and Relating the Electronic Structures of Nonmodel Supported Catalytic Materials to Their Performance. Journal of the American Chemical Society, 2009, 131, 2747-2754.	13.7	102
65	iso-Octane partial oxidation over Ni-Sn/Ce0.75Zr0.25O2 catalysts. Catalysis Today, 2008, 136, 214-221.	4.4	19
66	Hydrocarbon steam reforming on Ni alloys at solid oxide fuel cell operating conditions. Catalysis Today, 2008, 136, 243-248.	4.4	71
67	n-Dodecane reforming over nickel-based monolith catalysts: Deactivation and carbon deposition. Applied Catalysis A: General, 2008, 334, 277-290.	4.3	51
68	Effect of Support on Ethylene Epoxidation on Ag, Au, and Au-Ag Catalysts. , 2008, , 283-296.		2
69	Catalytic activity of ethylene oxidation over Au, Ag and Auâ€“Ag catalysts: Support effect. Catalysis Communications, 2007, 8, 57-64.	3.3	87
70	Electrical conductivity responses and interactions of poly(3-thiopheneacetic acid)/zeolites L, mordenite, beta and H2. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 23-30.	3.5	23
71	Nickel-catalyzed autothermal reforming of jet fuel surrogates: n-Dodecane, tetralin, and their mixture. Journal of Power Sources, 2007, 164, 344-350.	7.8	36
72	Promotion of the long-term stability of reforming Ni catalysts by surface alloying. Journal of Catalysis, 2007, 250, 85-93.	6.2	205

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73	Dodecane reforming over nickel-based monolith catalysts. Journal of Catalysis, 2007, 250, 209-221.	6.2	53
74	Carbon deposited on Ni/Ce Zr O isooctane autothermal reforming catalysts. Journal of Catalysis, 2007, 251, 374-387.	6.2	68
75	The Effect of Nb Loading on Catalytic Properties of Ni/Ce0.75Zr0.25O2 Catalyst for Methane Partial Oxidation. Journal of Natural Gas Chemistry, 2007, 16, 227-234.	1.8	17
76	Steam effect on NO x reduction over lean NO x trap Ptâ€“BaO/Al2O3 model catalyst. Topics in Catalysis, 2007, 46, 39-47.	2.8	6
77	Induced interaction between polypyrrole and SO2 via molecular sieve 13X. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 136, 78-86.	3.5	24
78	Successive ionic layer deposition (SILD) as a new sensor technology: synthesis and modification of metal oxides. Measurement Science and Technology, 2006, 17, 1861-1869.	2.6	36
79	Controlling Carbon Surface Chemistry by Alloying:Â Carbon Tolerant Reforming Catalyst. Journal of the American Chemical Society, 2006, 128, 11354-11355.	13.7	172
80	Activity of Ethylene Epoxidation over High Surface Area Alumina Support Au-Ag Catalysts. Journal of Chemical Engineering of Japan, 2006, 39, 321-326.	0.6	11
81	Hydrogen production from partial oxidation of iso-octane over Ni/Ce0.75Zr0.25O2 and Ni/Î²â€³-Al2O3 catalysts. Applied Catalysis A: General, 2006, 302, 133-139.	4.3	10
82	Techno-economic analysis of fuel cell auxiliary power units as alternative to idling. Journal of Power Sources, 2006, 160, 474-484.	7.8	54
83	Improvement of CO Sensitivity in GaN-Based Gas Sensors. IEICE Transactions on Electronics, 2006, E89-C, 1047-1051.	0.6	10
84	Successive ionic layer deposition: possibilities for gas sensor applications. Journal of Physics: Conference Series, 2005, 15, 45-50.	0.4	6
85	Polyaniline/zeolite LTA composites and electrical conductivity response towards CO. Polymer, 2005, 46, 947-953.	3.8	48
86	Electrical conductivity of polyaniline/zeolite composites and synergetic interaction with CO. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 117, 276-282.	3.5	95
87	Packed bed versus microreactor performance in autothermal reforming of isooctane. Catalysis Today, 2005, 110, 68-75.	4.4	50
88	Thermal decomposition of dispersed and bulk-like NOx species in model NOx trap materials. Applied Catalysis B: Environmental, 2005, 61, 164-175.	20.2	42
89	Polyaniline/polyimide blends as gas sensors and electrical conductivity response to CO-N2 mixtures. Polymer International, 2005, 54, 1126-1133.	3.1	48
90	A thermogravimetric determination of dispersed and bulk-like barium species supported on Î³-alumina. Journal of Materials Chemistry, 2005, 15, 366-368.	6.7	11

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91	Temperature-programmed desorption of methanol and oxidation of methanol on Ptâ€“Sn/Al2O3 catalysts. Chemical Engineering Journal, 2004, 97, 161-171.	12.7	25
92	Ptâ€“Sn/Al2O3 catalysts: effect of catalyst preparation and chemisorption methods on H2 and O2 uptake. Chemical Engineering Journal, 2004, 98, 99-104.	12.7	15
93	Influence of Cu-, Fe-, Co-, and Mn-oxide nanoclusters on sensing behavior of SnO2 films. Thin Solid Films, 2004, 467, 209-214.	1.8	73
94	Selective conductivity response of polypyrrole-based sensor on flammable chemicals. Reactive and Functional Polymers, 2004, 61, 11-22.	4.1	36
95	Electrical conductivity response of polypyrrole to acetone vapor: effect of dopant anions and interaction mechanisms. Synthetic Metals, 2004, 140, 15-21.	3.9	87
96	Adhesion and permeability of polyimide-clay nanocomposite films for protective coatings. Journal of Applied Polymer Science, 2003, 89, 2875-2881.	2.6	49
97	Structural and gas response characterization of nano-size SnO2 films deposited by SILD method. Sensors and Actuators B: Chemical, 2003, 96, 602-609.	7.8	62
98	Influence of surface Pd doping on gas sensing characteristics of SnO2 thin films deposited by spray pirolysis. Thin Solid Films, 2003, 436, 119-126.	1.8	133
99	Polypyrrole/poly(methylmethacrylate) blend as selective sensor for acetone in lacquer. Talanta, 2003, 60, 25-30.	5.5	41
100	Recent Developments in Mixed Ionic and Electronic Conducting Electrodes for the Alkali Metal Thermal Electric Converter (AMTEC). AIP Conference Proceedings, 2003, , .	0.4	3
101	Using of SILD technology for surface modification of SnO2 films for gas sensor applications. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	4
102	Hydrogen desorption from polycrystalline platinum chemically modified by sulfur pre-coverage. Surface Science, 2002, 501, 214-234.	1.9	9
103	Electrical conductivity response of polyaniline films to ethanolâ€“water mixtures. Synthetic Metals, 2002, 129, 303-308.	3.9	37
104	Characterization of Pt-Sn/carbon hydrogenation catalysts. Applied Catalysis A: General, 2002, 227, 105-115.	4.3	69
105	Possibilities of aerosol technology for deposition of SnO2-based films with improved gas sensing characteristics. Materials Science and Engineering C, 2002, 19, 73-77.	7.3	55
106	Electrical conductivity responses of polyaniline films to SO2â€“N2 mixtures: effect of dopant type and doping level. Reactive and Functional Polymers, 2002, 53, 29-37.	4.1	32
107	Surface degradation of Î±-naphthalene sulfonate-doped polypyrrole during XPS characterization. Applied Surface Science, 2002, 199, 128-137.	6.1	116
108	Morphological rank of nano-scale tin dioxide films deposited by spray pyrolysis from SnCl4Â·5H2O water solution. Thin Solid Films, 2002, 408, 51-58.	1.8	72

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109	Preparation, structure, properties and thermal behavior of rigid-rod polyimide/montmorillonite nanocomposites. Composites Science and Technology, 2001, 61, 1253-1264.	7.8	150
110	Peculiarities of SnO2 thin film deposition by spray pyrolysis for gas sensor application. Sensors and Actuators B: Chemical, 2001, 77, 244-252.	7.8	155
111	Structural characterization of SnO2 gas sensing films deposited by spray pyrolysis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 77, 33-39.	3.5	53
112	Electrical conductivity response of dodecylbenzene sulfonic acid-doped polypyrrole films to SO2â€“N2 mixtures. Synthetic Metals, 2000, 114, 65-72.	3.9	52
113	Carbon monoxide desorption from platinum chemically modified by sulfur. Surface Science, 2000, 464, 153-164.	1.9	15
114	Oxygen Sensors: Materials and Applications. MRS Bulletin, 1999, 24, 44-48.	3.5	36
115	<title>Optimization of thin-film gas sensors for environmental monitoring through theoretical modeling</title>. , 1999, , .		7
116	Determination of diffusion in polycrystalline platinum thin films. Journal of Applied Physics, 1999, 86, 4902-4907.	2.5	33
117	In-situ elevated temperature imaging of thin films with a microfabricated hot stage for scanning probe microscopes. Applied Surface Science, 1999, 141, 119-128.	6.1	12
118	Film Structure and Conductometric Hydrogen-Gas-Sensing Characteristics of Ultrathin Platinum Films. Langmuir, 1999, 15, 3307-3311.	3.5	15
119	Microstructure of a Pd/ceriaâ€“zirconia catalyst after high-temperature aging. Catalysis Letters, 1998, 53, 37-42.	2.6	32
120	Gas sensing based on surface oxidation/reduction of platinum-titania thin films I. Sensing film activation and characterization. Applied Surface Science, 1998, 125, 187-198.	6.1	30
121	Gas sensing based on surface oxidation/reduction of platinum-titania thin films II. The role of chemisorbed oxygen in film sensitization. Applied Surface Science, 1998, 125, 199-207.	6.1	20
122	A micromachined surface work-function gas sensor for low-pressure oxygen detection. Sensors and Actuators B: Chemical, 1997, 42, 195-204.	7.8	21
123	Characteristics of silicon-micromachined gas sensors based on Pt/TiOx thin films. Sensors and Actuators B: Chemical, 1997, 42, 205-215.	7.8	14
124	Resistance measurements of platinum-titania thin film gas detectors in ultra-high vacuum (UHV) and reactive ion etcher (RIE) systems. Sensors and Actuators B: Chemical, 1997, 41, 143-151.	7.8	10
125	Fabrication of conductometric gas-sensing films by selected area chemical-vapor deposition. AICHE Journal, 1997, 43, 2760-2764.	3.6	2
126	Gas Sensing Characteristics of Ultrathin TiO2-xFilms Investigated with XPS, TPD andIn SituResistance Measurements. Surface and Interface Analysis, 1997, 25, 76-80.	1.8	4

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127	The effects of exposure time and pressure on the temperature-programmed desorption spectra of systems with bulk states. Surface Science, 1996, 355, L385-L392.	1.9	16
128	Erratum to â€œThe effects of exposure time and pressure on the temperature-programmed desorption spectra of systems with bulk statesâ€•[Surface Science 355 (1996) L385]. Surface Science, 1996, 367, L32.	1.9	0
129	Characterization of carbon supported catalysts by electron microscopy techniques. Materials Chemistry and Physics, 1996, 44, 145-150.	4.0	6
130	Survivability of a silicon-based microelectronic gas-detector structure for high-temperature flow applications. Sensors and Actuators B: Chemical, 1996, 37, 27-35.	7.8	20
131	A silicon micromachined conductometric gas sensor with a maskless Pt sensing film deposited by selected-area CVD. Sensors and Actuators B: Chemical, 1996, 36, 312-319.	7.8	16
132	Temperature Programmed Desorption Spectra of Systems with Concentration Gradients in the Solid Lattice. The Journal of Physical Chemistry, 1996, 100, 11389-11395.	2.9	18
133	A meanâ€field modeling study of the interaction between hydrogen and a palladium (110) single crystal. Journal of Chemical Physics, 1996, 105, 8398-8403.	3.0	12
134	Characterization of Multilayer Thin Film Structures for Gas Sensor Applications. Materials Research Society Symposia Proceedings, 1995, 382, 477.	0.1	1
135	Microstructure and Activity of Thin Films for a Microelectronic Gas Sensor. Materials Research Society Symposia Proceedings, 1995, 403, 559.	0.1	0
136	A selected-area CVD method for deposition of sensing films on monolithically integrated gas detectors. IEEE Electron Device Letters, 1995, 16, 217-219.	3.9	12
137	Integrated ultra-thin-film gas sensors. Sensors and Actuators B: Chemical, 1994, 20, 55-62.	7.8	35
138	A micromachined ultra-thin-film gas detector. IEEE Transactions on Electron Devices, 1994, 41, 1770-1777.	3.0	59
139	Characterization of carbon-supported rutheniumâ€“tin catalysts by high-resolution electron microscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2803-2807.	1.7	16
140	Chemisorption studies of promoted solid-state HDS catalysts. Journal of Catalysis, 1992, 135, 427-433.	6.2	4
141	Characterization and hydrodesulfurization activity studies of unpromoted molybdenum sulfides prepared by elemental solid state reaction. Journal of Catalysis, 1992, 137, 333-345.	6.2	6
142	FTIR study of bimetallic Pt-Sn/Al2O3 catalysts. Journal of Catalysis, 1992, 138, 491-499.	6.2	59
143	Neopentane reactions over bimetallic Pt$z.sbnd;Sn/Al2O3 and Pt$z.sbnd;Au/SiO2 catalysts. Journal of Catalysis, 1991, 132, 451-464.	6.2	27
144	A chemisorption and XPS study of bimetallic Pt-Sn/Al2O3 catalysts. Journal of Catalysis, 1991, 127, 287-306.	6.2	145

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145	Chemisorption and FTIR study of bimetallic Pt$z.sbnd;Au/SiO2 catalysts. Journal of Catalysis, 1990, 121, 441-455.	6.2	68
146	A microstructural investigation of model solid state hydrodesulfurization catalysts. Journal of Solid State Chemistry, 1990, 87, 378-395.	2.9	9
147	Solid state synthesis and characterization of model hydrodesulfurization catalysts. Journal of Catalysis, 1989, 119, 388-399.	6.2	17
148	Microstructure and reactivity of supported bimetallic platinum-gold catalysts. Journal of Catalysis, 1989, 120, 353-369.	6.2	42
149	Preparation and activity of solid-state hydrodesulfurization catalysts. Journal of Catalysis, 1989, 120, 487-492.	6.2	14
150	CO hydrogenation over alumina-supported sulfide cluster catalysts. AICHE Journal, 1989, 35, 109-119.	3.6	8
151	Model hydrodesulfurization catalysts: Solid state synthesis and characterization of iron containing molybdenum sulphide. Applied Catalysis, 1989, 56, 281-295.	0.8	11
152	Solid state synthesis and activity of a Cu-containing hydrodesulphurization catalyst. Journal of the Chemical Society Chemical Communications, 1989, , 1833.	2.0	4
153	Interaction of Hydrocarbons and Water With ZSM5. Studies in Surface Science and Catalysis, 1989, , 847-856.	1.5	12
154	Syngas and HDS catalysts derived from sulphido bimetallic clusters. Polyhedron, 1988, 7, 2411-2420.	2.2	53
155	Effect of small amounts of ethane on the selective oxidation of methane over silicic acid and quartz glass surfaces. Journal of the Chemical Society Chemical Communications, 1988, , 1298.	2.0	16
156	Selective oxidation of methane over vycor glass, quartz glass and various silica, magnesia and alumina surfaces. Applied Catalysis, 1988, 44, 33-51.	0.8	59
157	TPR Investigation of bimetallic Ru-Cu samples supported on SiO2, Al2O3 and MgO. Journal of Thermal Analysis, 1987, 32, 471-483.	0.6	19
158	Adsorption-induced conductance changes of thin Pt films and PtPd/TiO2 gas sensors. Applied Surface Science, 1987, 29, 341-360.	6.1	9
159	Structure sensitivity of reactions between cyclopropane and hydrogen on supported ruthenium catalysts. Journal of Catalysis, 1987, 108, 495-500.	6.2	29
160	The role of the zeolite in the hydrogenolysis of C2 and C3 hydrocarbons on RuNaY catalysts. Journal of Catalysis, 1986, 97, 549-560.	6.2	13
161	Electron microdiffraction study of bimetallic Ru$z.sbnd;Au/MgO catalysts. Journal of Catalysis, 1986, 100, 437-445.	6.2	3
162	The microstructure of bimetallic Ru$z.sbnd;Cu/SiO2 catalysts: A chemisorption and analytical electron microscopy study. Journal of Catalysis, 1986, 100, 446-457.	6.2	28

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163	Infrared spectroscopic study of NO reduction by H2 on supported gold catalysts. Journal of Catalysis, 1986, 102, 207-215.	6.2	74
164	The influence of hydrazine reduction on metal dispersion and support morphology in bimetallic Ru$z.sbnd;Au/MgO catalysts. Journal of Catalysis, 1986, 98, 191-203.	6.2	15
165	Electron microscopy and krypton adsorption characterization of high-purity MgO powder. Journal of Materials Research, 1986, 1, 114-119.	2.6	0
166	Application of high-resolution analytical electron microscopy to the analysis of automotive catalysts. Industrial & Engineering Chemistry Product Research and Development, 1985, 24, 6-10.	0.5	15
167	Morphology and surface uniformity growth in magnesium oxide dehydration. The Journal of Physical Chemistry, 1985, 89, 3761-3766.	2.9	25
168	Metal dispersion of bimetallic catalysts via stepwise chemisorption and surface titration I. Ru$z.sbnd;Au/SiO2. Journal of Catalysis, 1985, 95, 271-283.	6.2	26
169	Metal dispersion of bimetallic catalysts via stepwise chemisorption and surface titration II. Ru$z.sbnd;Au/MgO. Journal of Catalysis, 1985, 95, 284-288.	6.2	4
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