

Carsten Plog

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3941478/publications.pdf>

Version: 2024-02-01

37
papers

1,282
citations

430874

18
h-index

395702

33
g-index

40
all docs

40
docs citations

40
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensor for Directly Determining the State of a NO _x Storage Catalyst. , 2008, , .		16
2	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.	7.8	56
3	Sensor for directly determining the exhaust gas recirculation rate "EGR sensor. Sensors and Actuators B: Chemical, 2006, 119, 57-63.	7.8	36
4	Poisoning of Temperature Independent Resistive Oxygen Sensors by Sulfur Dioxide. Journal of Electroceramics, 2004, 13, 733-738.	2.0	32
5	Temperature-independent resistive oxygen exhaust gas sensor for lean-burn engines in thick-film technology. Sensors and Actuators B: Chemical, 2003, 93, 43-50.	7.8	89
6	Sulfur adsorber for thick-film exhaust gas sensors. Sensors and Actuators B: Chemical, 2003, 93, 36-42.	7.8	24
7	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.	2.8	84
8	Amperometric measurements with a nitrosyl cation conducting ceramic membrane. Physical Chemistry Chemical Physics, 2003, 5, 5199-5202.	2.8	2
9	Selective ammonia exhaust gas sensor for automotive applications. Sensors and Actuators B: Chemical, 2002, 83, 181-189.	7.8	192
10	Plasma-Enhanced Adsorption and Reduction on Lean NO _x -Catalysts. , 2001, , .		7
11	Selective Ammonia Exhaust Gas Sensor for Automotive Applications. , 2001, , 1656-1659.		122
12	A new potentiometric NO sensor based on a NO ⁺ cation conducting ceramic membrane. Sensors and Actuators B: Chemical, 2001, 77, 287-292.	7.8	11
13	The effect of NH ₃ on the ionic conductivity of dehydrated zeolites Na beta and H beta. Microporous and Mesoporous Materials, 1998, 21, 111-116.	4.4	75
14	The Effect of Adsorbates on N ₂ O Formation in Pulsing NO over a Pt/ZSM-5 Catalyst. Journal of Catalysis, 1997, 169, 400-403.	6.2	10
15	Selective NO reduction by propane and propene over a Pt/ZSM-5 catalyst: a transient study of the reaction mechanism. Applied Catalysis B: Environmental, 1996, 11, 49-63.	20.2	36
16	Characterization of SO ₂ -contaminated Cu-ZSM-5 catalysts. Studies in Surface Science and Catalysis, 1995, 98, 58-60.	1.5	0
17	Development of a high-temperature basic device for chemical sensors based on an IDC with on-chip heating. Sensors and Actuators B: Chemical, 1995, 25, 584-587.	7.8	4
18	Combustion gas sensitivity of zeolite layers on thin-film capacitors. Sensors and Actuators B: Chemical, 1995, 25, 403-406.	7.8	58

#	ARTICLE	IF	CITATIONS
19	Impedance of zeolite-based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 653-656.	7.8	39
20	Catalyst for selective reduction of nitrogen oxides in flue gases. <i>Zeolites</i> , 1991, 11, 89.	0.5	0
21	Zeolite coated interdigital capacitors as a new type of gas sensor. <i>Catalysis Today</i> , 1991, 8, 509-513.	4.4	20
22	Mikroelektronische Gassensoren: Ein neues Anwendungsgebiet für Zeolithe. <i>Chemie-Ingenieur-Technik</i> , 1991, 63, 838-839.	0.8	4
23	Pt ²⁺ -Doped Zeolites as Three-Way-Catalysts: SIMS Analysis as a Tool for the Selection of Suitable Zeolite Types. <i>Studies in Surface Science and Catalysis</i> , 1989, , 295-304.	1.5	2
24	Metal-Doped Zeolites for Selective Catalytic Reduction of Nitrogen Oxides in Combustion Gases. <i>Studies in Surface Science and Catalysis</i> , 1989, 46, 337-346.	1.5	2
25	Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts. <i>Applied Catalysis</i> , 1988, 39, 213-226.	0.8	23
26	The influence of water and of alkali promoter on the carbon number distribution of Fischer-Tropsch products formed over iron catalysts. <i>Zeitschrift für Elektrochemie und Elektrochemie</i> , 1987, 91, 116-121.	0.9	8
27	Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite. <i>Applied Catalysis</i> , 1987, 35, 311-320.	0.8	3
28	Secondary ion production by latent energy of neutrally emitted particles. <i>Surface Science</i> , 1985, 152-153, 127-134.	1.9	18
29	Secondary ion emission by nonadiabatic dissociation of nascent ion molecules with energies depending on solid composition. <i>European Physical Journal B</i> , 1983, 54, 59-70.	1.5	23
30	Secondary ion emission by nonadiabatic dissociation of nascent ion molecules with energies depending on solid composition. <i>European Physical Journal B</i> , 1983, 54, 71-86.	1.5	15
31	LAMMA- and SIMS/AES-measurements on Fe-Ti-alloys. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1981, 308, 287-289.	0.8	6
32	Investigations on oxide formed in high-temperature water on austenitic steel. <i>Journal of Nuclear Materials</i> , 1980, 92, 334-344.	2.7	17
33	Effect of Impregnation and Activation Conditions of Al ₂ O ₃ /CuO Supported Monolith Catalysts in the Reduction of NO. <i>Studies in Surface Science and Catalysis</i> , 1979, 3, 29-40.	1.5	1
34	Empirical formula for the calculation of secondary ion yields from oxidized metal surfaces and metal oxides. <i>Surface Science</i> , 1977, 67, 565-580.	1.9	140
35	SIMS, EID and flash-filament investigation of O ₂ , H ₂ , (O ₂ + H ₂) and H ₂ O interaction with vanadium. <i>Surface Science</i> , 1977, 63, 403-416.	1.9	36
36	Measurements of relative secondary ion yields from oxidized tungsten (100) under bombardment by ions with different masses and energies. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1974, 13, 415-424.	1.3	35

#	ARTICLE	IF	CITATIONS
37	Simultaneous SIMS and EID investigation on the interaction of oxygen with a W (100) surface. Surface Science, 1973, 39, 397-404.	1.9	34