

Carla de Leitenburg

List of Publications by Year in descending order

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67
papers

7,084
citations

76294

40
h-index

106281

65
g-index

70
all docs

70
docs citations

70
times ranked

5884
citing authors

#	ARTICLE	IF	CITATIONS
1	The utilization of ceria in industrial catalysis. <i>Catalysis Today</i> , 1999, 50, 353-367.	2.2	854
2	Shape-Dependent Activity of Ceria in Soot Combustion. <i>ACS Catalysis</i> , 2014, 4, 172-181.	5.5	377
3	Nanophase Fluorite-Structured CeO ₂ –ZrO ₂ Catalysts Prepared by High-Energy Mechanical Milling. <i>Journal of Catalysis</i> , 1997, 169, 490-502.	3.1	374
4	Insights into the redox properties of ceria-based oxides and their implications in catalysis. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 1096-1102.	2.8	364
5	Promotional effect of rare earths and transition metals in the combustion of diesel soot over CeO ₂ and CeO ₂ –ZrO ₂ . <i>Catalysis Today</i> , 2006, 114, 40-47.	2.2	295
6	A Model for the Temperature-Programmed Reduction of Low and High Surface Area Ceria. <i>Journal of Catalysis</i> , 2000, 193, 273-282.	3.1	288
7	The Synthesis and Characterization of Mesoporous High-Surface Area Ceria Prepared Using a Hybrid Organic/Inorganic Route. <i>Journal of Catalysis</i> , 1998, 178, 299-308.	3.1	227
8	A Temperature-Programmed and Transient Kinetic Study of CO ₂ Activation and Methanation over CeO ₂ Supported Noble Metals. <i>Journal of Catalysis</i> , 1997, 166, 98-107.	3.1	225
9	The use of temperature-programmed and dynamic/transient methods in catalysis: characterization of ceria-based, model three-way catalysts. <i>Catalysis Today</i> , 2003, 77, 407-417.	2.2	210
10	The preparation of high surface area CeO ₂ –ZrO ₂ mixed oxides by a surfactant-assisted approach. <i>Catalysis Today</i> , 1998, 43, 79-88.	2.2	202
11	CO ₂ Methanation Under Transient and Steady-State Conditions over Rh/CeO ₂ and CeO ₂ -Promoted Rh/SiO ₂ : The Role of Surface and Bulk Ceria. <i>Journal of Catalysis</i> , 1995, 151, 111-124.	3.1	199
12	Structural and Oxygen Storage/Release Properties of CeO ₂ -Based Solid Solutions. <i>Comments on Inorganic Chemistry</i> , 1999, 20, 263-284.	3.0	194
13	Catalytic combustion of hydrocarbons with Mn and Cu-doped ceria–zirconia solid solutions. <i>Catalysis Today</i> , 1999, 47, 133-140.	2.2	186
14	Some recent developments in the characterization of ceria-based catalysts. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 584-591.	2.8	186
15	Rh–CeO ₂ interaction induced by high-temperature reduction. Characterization and catalytic behaviour in transient and continuous conditions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1311-1319.	1.7	168
16	Soot combustion over silver-supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 489-498.	10.8	161
17	On the role of lattice/surface oxygen in ceria–zirconia catalysts for diesel soot combustion. <i>Catalysis Today</i> , 2012, 181, 108-115.	2.2	158
18	The effect of doping CeO ₂ with zirconium in the oxidation of isobutane. <i>Applied Catalysis A: General</i> , 1996, 139, 161-173.	2.2	155

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19	The Dynamics of Oxygen Storage in Ceria-Zirconia Model Catalysts Measured by CO Oxidation under Stationary and Cycling Feedstream Compositions. <i>Journal of Catalysis</i> , 2000, 193, 338-347.	3.1	152
20	Diesel soot combustion activity of ceria promoted with alkali metals. <i>Catalysis Today</i> , 2008, 136, 3-10.	2.2	120
21	CeO ₂ -based solid solutions with the fluorite structure as novel and effective catalysts for methane combustion. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 965.	2.0	117
22	Outstanding Methane Oxidation Performance of Palladium-Embedded Ceria Catalysts Prepared by a One-Step Dry Ball-Milling Method. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10212-10216.	7.2	117
23	Ethanol steam reforming and water gas shift over Co/ZnO catalytic honeycombs doped with Fe, Ni, Cu, Cr and Na. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7690-7698.	3.8	103
24	Metal-Support Interactions in Rh/CeO ₂ , Rh/TiO ₂ , and Rh/Nb ₂ O ₅ Catalysts as Inferred from CO ₂ Methanation Activity. <i>Journal of Catalysis</i> , 1995, 156, 171-174.	3.1	96
25	Unusual Oxygen Storage/Redox Behavior of High-Surface-Area Ceria Prepared by a Surfactant-Assisted Route. <i>Chemistry of Materials</i> , 1997, 9, 2676-2678.	3.2	96
26	A novel and simple route to catalysts with a high oxygen storage capacity: the direct room-temperature synthesis of CeO ₂ -ZrO ₂ solid solutions. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2181-2182.	2.0	93
27	High stability and activity of solution combustion synthesized Pd-based catalysts for methane combustion in presence of water. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 237-245.	10.8	87
28	The role of rare earth oxides as promoters and stabilizers in combustion catalysts. <i>Journal of Alloys and Compounds</i> , 2004, 374, 387-392.	2.8	77
29	Higher activity of Diesel soot oxidation over polycrystalline ceria and ceria-zirconia solid solutions from more reactive surface planes. <i>Catalysis Today</i> , 2012, 197, 119-126.	2.2	76
30	Room temperature oxidation of formaldehyde on Pt-based catalysts: A comparison between ceria and other supports (TiO ₂ , Al ₂ O ₃ and ZrO ₂). <i>Catalysis Today</i> , 2015, 253, 163-171.	2.2	71
31	Catalytic monoliths for ethanol steam reforming. <i>Catalysis Today</i> , 2008, 138, 187-192.	2.2	69
32	NO reduction by CO over Rh/Al ₂ O ₃ . Effects of rhodium dispersion on the catalytic properties. <i>Journal of Catalysis</i> , 1994, 146, 136-143.	3.1	66
33	Wet oxidation of acetic acid catalyzed by doped ceria. <i>Applied Catalysis B: Environmental</i> , 1996, 11, L29-L35.	10.8	66
34	A comparative study of water gas shift reaction over gold and platinum supported on ZrO ₂ and CeO ₂ -ZrO ₂ . <i>Applied Catalysis B: Environmental</i> , 2009, 88, 272-282.	10.8	57
35	Ceria-Zirconia Particles Wrapped in a 2D Carbon Envelope: Improved Low-Temperature Oxygen Transfer and Oxidation Activity. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14040-14043.	7.2	49
36	The direct room-temperature synthesis of CeO ₂ -based solid solutions: a novel route to catalysts with a high oxygen storage/transport capacity. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 1283-1292.	1.5	48

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37	The formation of nanodomains of Ce ₆ O ₁₁ in ceria catalyzed soot combustion. Journal of Catalysis, 2014, 312, 191-194.	3.1	45
38	Reduction and Oxygen Storage Behavior of Noble Metals Supported on Silica-Doped Ceria. Journal of Catalysis, 2002, 211, 407-421.	3.1	43
39	Ethanol steam reforming and water gas shift reaction over Co-Mn/ZnO catalysts. Chemical Engineering Journal, 2009, 154, 267-273.	6.6	43
40	Room and high temperature wear behaviour of Ni matrix micro- and nano-SiC composite electrodeposits. Surface and Coatings Technology, 2012, 206, 3658-3665.	2.2	43
41	Insights into the dynamics of oxygen storage/release phenomena in model ceria-zirconia catalysts as inferred from transient studies using H ₂ , CO and soot as reductants. Catalysis Today, 2006, 112, 94-98.	2.2	41
42	Ceria-Based Materials in Catalysis. Fundamental Theories of Physics, 2016, 50, 209-242.	0.1	37
43	Activity, durability and microstructural characterization of ex-nitrate and ex-chloride Pt/Ce _{0.56} Zr _{0.44} O ₂ catalysts for low temperature water gas shift reaction. Journal of Catalysis, 2010, 270, 285-298.	3.1	36
44	The effect of milling parameters on the mechanochemical synthesis of Pd-CeO ₂ methane oxidation catalysts. Catalysis Science and Technology, 2019, 9, 4232-4238.	2.1	33
45	Outstanding Methane Oxidation Performance of Palladium-Embedded Ceria Catalysts Prepared by a One-Step Dry Ball-Milling Method. Angewandte Chemie, 2018, 130, 10369-10373.	1.6	32
46	Catalytic Performance of Solution Combustion Synthesized Alumina- and Ceria-Supported Pt and Pd Nanoparticles for the Combustion of Propane and Dimethyl Ether (DME). Industrial & Engineering Chemistry Research, 2012, 51, 7510-7517.	1.8	31
47	Oxygen Storage Behavior of Ceria-Zirconia-Based Catalysts in the Presence of SO ₂ . Topics in Catalysis, 2001, 16/17, 299-306.	1.3	30
48	High energy ball milling of titania and titania-ceria powder mixtures. Powder Technology, 2014, 254, 591-596.	2.1	28
49	Some Insight into the Effects of Oxygen Diffusion in the Reduction Kinetics of Ceria. Industrial & Engineering Chemistry Research, 2001, 40, 4828-4835.	1.8	26
50	Reactivity and Characterization of Pd-containing Ceria-Zirconia Catalysts for Methane Combustion. Studies in Surface Science and Catalysis, 1998, 119, 87-92.	1.5	24
51	Fast oxygen uptake/release over a new CeO _x phase. Chemical Communications, 1998, , 1897-1898.	2.2	23
52	Promotion effect of surface Lanthanum in soot oxidation over ceria-based catalysts. Topics in Catalysis, 2007, 42-43, 319-322.	1.3	22
53	Redox behavior of gold supported on ceria and ceria-zirconia based catalysts. Journal of Rare Earths, 2009, 27, 196-203.	2.5	22
54	CO and CO ₂ hydrogenation under transient conditions over Rh-CeO ₂ : novel positive effects of metal-support interaction on catalytic activity and selectivity. Journal of the Chemical Society Chemical Communications, 1991, .	2.0	20

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55	COD and AOX abatement in catalytic wet oxidation of halogenated liquid wastes using CeO ₂ -based catalysts. Journal of Alloys and Compounds, 2006, 408-412, 1136-1140.	2.8	18
56	Study on Redox, Structural and Electrical Properties of Ce _x Zr _{1-x} O ₂ for Applications in SOFC Anodes. Journal of the Electrochemical Society, 2011, 158, P22.	1.3	16
57	The role of palladium salt precursors in Pd-PdO/CeO ₂ catalysts prepared by dry milling for methane oxidation. Catalysis Communications, 2020, 135, 105899.	1.6	16
58	The Role of Neodymium in the Optimization of a Ni/CeO ₂ and Ni/CeZrO ₂ Methane Dry Reforming Catalyst. Inorganics, 2018, 6, 39.	1.2	14
59	Effect of process modification and presence of H ₂ O ₂ in the synthesis of samaria-doped ceria powders for fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 1698-1709.	3.8	11
60	Catalytic applications of cerium dioxide. , 2020, , 45-108.		11
61	CERIA-BASED FORMULATIONS FOR CATALYSTS FOR DIESEL SOOT COMBUSTION. Catalytic Science Series, 2013, , 565-621.	0.6	9
62	Sintering behaviour of olivine-ceria blends. Ceramics International, 2015, 41, 6293-6298.	2.3	6
63	Influence of Nanoscale Surface Arrangements on the Oxygen Transfer Ability of Ceria-Zirconia Mixed Oxide. Inorganics, 2020, 8, 34.	1.2	4
64	Key Properties and Parameters of Pd/CeO ₂ Passive NO _x Adsorbers. Industrial & Engineering Chemistry Research, 2022, 61, 3329-3341.	1.8	3
65	Study on Structural and Electrical Properties of Ce _{0.5} Zr _{0.5} O ₂ for Applications in SOFC Anode. ECS Transactions, 2010, 25, 335-344.	0.3	2
66	High-Energy Mechanical Synthesis of Nanophase Fluorite-Structured Mixed Oxide Catalysts with a High Redox Activity. Materials Research Society Symposia Proceedings, 1996, 454, 247.	0.1	0
67	Effect of sulfur on the oxygen storage/release capacity of Rh/CeO ₂ . Studies in Surface Science and Catalysis, 2000, 130, 1349-1354.	1.5	0