Paolo Fornasiero

List of Publications by Year
in descending order

306 papers	30,370 citations	3933 88 h-index	5394 164 g-index
321 all docs	321 docs citations	321 times ranked	25397 citing authors

#	Article	IF	Citations
1	Fundamentals and Catalytic Applications of CeO₂-Based Materials. Chemical Reviews, 2016, 116, 5987-6041.	47.7	1,883
2	Use of CeO2-based oxides in the three-way catalysis. Catalysis Today, 1999, 50, 285-298.	4.4	1,649
3	Electron Localization Determines Defect Formation on Ceria Substrates. Science, 2005, 309, 752-755.	12.6	1,211
4	Control of Metal Nanocrystal Size Reveals Metal-Support Interface Role for Ceria Catalysts. Science, 2013, 341, 771-773.	12.6	1,142
5	Automotive catalytic converters: current status and some perspectives. Catalysis Today, 2003, 77, 419-449.	4.4	1,141
6	Nonaqueous Synthesis of TiO₂ Nanocrystals Using TiF₄ to Engineer Morphology, Oxygen Vacancy Concentration, and Photocatalytic Activity. Journal of the American Chemical Society, 2012, 134, 6751-6761.	13.7	854
7	Exceptional Activity for Methane Combustion over Modular Pd@CeO ₂ Subunits on Functionalized Al ₂ O ₃. Science, 2012, 337, 713-717.	12.6	842
8	Rh-Loaded CeO2-ZrO2 Solid-Solutions as Highly Efficient Oxygen Exchangers: Dependence of the Reduction Behavior and the Oxygen Storage Capacity on the Structural-Properties. Journal of Catalysis, 1995, 151, 168-177.	6.2	830
9	Modification of the Redox Behaviour of CeO2Induced by Structural Doping with ZrO2. Journal of Catalysis, 1996, 164, 173-183.	6.2	679
10	Carbon-Based Single-Atom Catalysts for Advanced Applications. ACS Catalysis, 2020, 10, 2231-2259.	11.2	426
11	Photocatalytic Hydrogen Production: A Rift into the Future Energy Supply. ChemCatChem, 2017, 9, 1523-1544.	3.7	396
12	N-Doped Graphitized Carbon Nanohorns as a Forefront Electrocatalyst in Highly Selective O2 Reduction to H2O2. CheM, 2018, 4, 106-123.	11.7	348
13	Surface Phases and Photocatalytic Activity Correlation of Bi₂O₃/Bi₂O_{4-x} Nanocomposite. Journal of the American Chemical Society, 2008, 130, 9658-9659.	13.7	327
14	Updates on the Roadmap for Photocatalysis. ACS Catalysis, 2020, 10, 5493-5501.	11.2	293
15	Catalytic Applications in the Production of Biodiesel from Vegetable Oils. ChemSusChem, 2009, 2, 278-300.	6.8	282
16	Nextâ€Generation Biofuels: Survey of Emerging Technologies and Sustainability Issues. ChemSusChem, 2010, 3, 1106-1133.	6.8	270
17	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	39.5	268
18	The Rise of Hydrogen Peroxide as the Main Product by Metalâ€Free Catalysis in Oxygen Reductions. Advanced Materials, 2019, 31, e1802920.	21.0	251

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19	Computer Simulation Studies of Bulk Reduction and Oxygen Migration in CeO2â^'ZrO2 Solid Solutions. Journal of Physical Chemistry B, 1997, 101, 1750-1753.	2.6	240
20	Embedded Phases: A Way to Active and Stable Catalysts. ChemSusChem, 2010, 3, 24-42.	6.8	240
21	CuO_xâ^'TiO₂ Photocatalysts for H₂ Production from Ethanol and Glycerol Solutions. Journal of Physical Chemistry A, 2010, 114, 3916-3925.	2.5	239
22	The role of ceria-based nanostructured materials in energy applications. Materials Today, 2014, 17, 349-357.	14.2	228
23	Nanostructured materials for advanced automotive de-pollution catalysts. Journal of Solid State Chemistry, 2003, 171, 19-29.	2.9	225
24	The Potential of Supported Cu₂O and CuO Nanosystems in Photocatalytic H₂ Production. ChemSusChem, 2009, 2, 230-233.	6.8	225
25	Synthesis of Dispersible Pd@CeO₂Coreâ^'Shell Nanostructures by Self-Assembly. Journal of the American Chemical Society, 2010, 132, 1402-1409.	13.7	214
26	Surface and Reduction Energetics of the CeO2â^'ZrO2 Catalysts. Journal of Physical Chemistry B, 1998, 102, 557-561.	2.6	208
27	Effects of Trivalent Dopants on the Redox Properties of Ce0.6Zr0.4O2Mixed Oxide. Journal of Catalysis, 1997, 171, 160-168.	6.2	207
28	Reduction of NO over Partially Reduced Metal-Loaded CeO2â€“ZrO2Solid Solutions. Journal of Catalysis, 1996, 162, 1-9.	6.2	202
29	TiO2 nanopowders doped with boron and nitrogen for photocatalytic applications. Chemical Physics, 2007, 339, 111-123.	1.9	194
30	Synthesis and photocatalytic application of visible-light active Î² -Fe 2 O 3 /g-C 3 N 4 hybrid nanocomposites. Applied Catalysis B: Environmental, 2016, 187, 171-180.	20.2	194
31	Relationship between the Zirconia-Promoted Reduction in the Rh-Loaded Ce0.5Zr0.5O2Mixed Oxide and the Zrâ€“O Local Structure. Journal of Catalysis, 1997, 168, 386-392.	6.2	192
32	Redox Propertyâ€“Local Structure Relationships in the Rh-Loaded CeO2â€“ZrO2Mixed Oxides. Journal of Catalysis, 1999, 182, 378-389.	6.2	183
33	Synthesis, characterization and photocatalytic performance of transition metal tungstates. Chemical Physics Letters, 2010, 498, 113-119.	2.6	173
34	F-Doped Co₃O₄ Photocatalysts for Sustainable H₂ Generation from Water/Ethanol. Journal of the American Chemical Society, 2011, 133, 19362-19365.	13.7	171
35	Photocatalytic activity of TiO2 doped with boron and vanadium. Journal of Hazardous Materials, 2007, 146, 529-534.	12.4	167
36	An unusual promotion of the redox behaviour of CeO2-ZrO2 solid solutions upon sintering at high temperatures. Catalysis Letters, 1995, 33, 193-200.	2.6	161

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37	Nanostructured Cu/TiO₂ Photocatalysts for H₂ Production from Ethanol and Glycerol Aqueous Solutions.. ChemCatChem, 2011, 3, 574-577.	3.7	158
38	Bulk Reduction and Oxygen Migration in the Ceria-Based Oxides. Chemistry of Materials, 2000, 12, 677-681.	6.7	157
39	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acidâ€“Base Pair. Journal of the American Chemical Society, 2018, 140, 4172-4181.	13.7	157
40	Effect of ZrO2 content on textural and structural properties of CeO2â€“ZrO2 solid solutions made by citrate complexation route. Inorganica Chimica Acta, 2003, 349, 217-226.	2.4	152
41	Carbon Dioxide Hydrogenation on Ni(110). Journal of the American Chemical Society, 2008, 130, 11417-11422.	13.7	151
42	CO oxidation on Pd/CeO2â€“ZrO2 catalysts. Catalysis Today, 1998, 45, 179-183.	4.4	146
43	Enhanced Hydrogen Production by Photoreforming of Renewable Oxygenates Through Nanostructured Fe₂O₃ Polymorphs. Advanced Functional Materials, 2014, 24, 372-378.	14.9	146
44	Photocatalytic Hydrogen Evolution from Substoichiometric Colloidal WO_{3â€“x} Nanowires. ACS Energy Letters, 2018, 3, 1904-1910.	17.4	145
45	Redox Behavior of High-Surface-Area Rh-, Pt-, and Pd-Loaded Ce0.5Zr0.5O2Mixed Oxide. Journal of Catalysis, 1999, 182, 56-69.	6.2	141
46	Electrooxidation of Ethylene Glycol and Glycerol on Pdâ€(Niâ€Zn)/C Anodes in Direct Alcohol Fuel Cells. ChemSusChem, 2013, 6, 518-528.	6.8	138
47	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. Chemical Reviews, 2021, 121, 13620-13697.	47.7	136
48	Singleâ€Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. Small, 2021, 17, e2006473.	10.0	135
49	Photocatalytic H₂ and Addedâ€Value Byâ€Products â€“ The Role of Metal Oxide Systems in Their Synthesis from Oxygenates. European Journal of Inorganic Chemistry, 2011, 2011, 4309-4323.	2.0	134
50	Metal-free dual-phase full organic carbon nanotubes/g-C3N4 heteroarchitectures for photocatalytic hydrogen production. Nano Energy, 2018, 50, 468-478.	16.0	133
51	Photocatalysis for Hydrogen Production and CO₂ Reduction: The Case of Copperâ€Catalysts. ChemCatChem, 2019, 11, 368-382.	3.7	131
52	Reduction of NO by CO over Rh/CeO2â€“ZrO2Catalysts. Journal of Catalysis, 1998, 175, 269-279.	6.2	129
53	Mixedâ€Valence Singleâ€Atom Catalyst Derived from Functionalized Graphene. Advanced Materials, 2019, 31, e1900323.	21.0	129
54	Supported Metal Oxide Nanosystems for Hydrogen Photogeneration: Quo Vadis?. Advanced Functional Materials, 2011, 21, 2611-2623.	14.9	126

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55	Mechanisms for High Selectivity in the Hydrodeoxygenation of 5-Hydroxymethylfurfural over PtCo Nanocrystals. ACS Catalysis, 2016, 6, 4095-4104.	11.2	124
56	Methane Oxidation on Pd@ZrO₂/Siâ€“Al₂O₃ Is Enhanced by Surface Reduction of ZrO₂. ACS Catalysis, 2014, 4, 3902-3909.	11.2	119
57	Determining Plasmonic Hot Electrons and Photothermal Effects during H₂ Evolution with TiNâ€“Pt Nanohybrids. ACS Catalysis, 2020, 10, 5261-5271.	11.2	118
58	La_{0.6}Sr_{0.4}Co_{1â^'y}Fe_yO_{3â^'Î´} Perovskites: Influence of the Co/Fe Atomic Ratio on Properties and Catalytic Activity toward Alcohol Steam-Reforming. Chemistry of Materials, 2008, 20, 2314-2327.	6.7	117
59	Pd/Ce0.6Zr0.4O2/Al2O3 as advanced materials for three-way catalysts. Applied Catalysis B: Environmental, 2000, 24, 157-167.	20.2	115
60	Relationships between Structural/Textural Properties and Redox Behavior in Ce0.6Zr0.4O2 Mixed Oxides. Journal of Catalysis, 1999, 187, 177-185.	6.2	114
61	Sunlight induced formation of surface Bi2O4â^'â€“Bi2O3 nanocomposite during the photocatalytic mineralization of 2-chloro and 2-nitrophenol. Applied Catalysis B: Environmental, 2015, 163, 444-451.	20.2	112
62	Hydrogen-Assisted Transformation of CO₂ on Nickel: The Role of Formate and Carbon Monoxide. Journal of Physical Chemistry Letters, 2010, 1, 402-406.	4.6	111
63	Vertically oriented CuO/ZnO nanorod arrays: from plasma-assisted synthesis to photocatalytic H2 production. Journal of Materials Chemistry, 2012, 22, 11739.	6.7	108
64	Effects of the Nature of the Reducing Agent on the Transient Redox Behavior of NM/Ce0.68Zr0.32O2 (NM=Pt, Pd, and Rh). Journal of Catalysis, 2001, 200, 181-193.	6.2	107
65	Multiwalled Carbon Nanotubes Drive the Activity of Metal@oxide Coreâ€“Shell Catalysts in Modular Nanocomposites. Journal of the American Chemical Society, 2012, 134, 11760-11766.	13.7	107
66	Evidence for Entropy Effects in the Reduction of Ceriaâ^'Zirconia Solutions. Chemistry of Materials, 2006, 18, 5363-5369.	6.7	106
67	Exceptional Thermal Stability of Pd@CeO₂ Coreâ€“Shell Catalyst Nanostructures Grafted onto an Oxide Surface. Nano Letters, 2013, 13, 2252-2257.	9.1	106
68	Carbon nanotubes and catalysis: the many facets of a successful marriage. Catalysis Science and Technology, 2015, 5, 3859-3875.	4.1	106
69	Engineering titania nanostructure to tune and improve its photocatalytic activity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3966-3971.	7.1	106
70	Dynamic structural evolution of supported palladiumâ€“ceria coreâ€“shell catalysts revealed by in situ electron microscopy. Nature Communications, 2015, 6, 7778.	12.8	105
71	Catalytic Oxidation of Methane: Pd and Beyond. European Journal of Inorganic Chemistry, 2018, 2018, 2884-2893.	2.0	105
72	Methane partial oxidation on NiCu-based catalysts. Catalysis Today, 2009, 145, 176-185.	4.4	104

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73	Bimetallic Auâ€“Pt/TiO₂photocatalysts active under UV-A and simulated sunlight for H₂production from ethanol. Green Chemistry, 2012, 14, 330-333.	9.0	104
74	Oxidation enthalpies for reduction of ceria surfaces. Surface Science, 2007, 601, 2512-2519.	1.9	102
75	H₂ Production by Renewables Photoreforming on Ptâ€“Au/TiO₂ Catalysts Activated by Reduction. ChemSusChem, 2012, 5, 1800-1811.	6.8	102
76	Well-defined Cu₂O photocatalysts for solar fuels and chemicals. Journal of Materials Chemistry A, 2021, 9, 5915-5951.	10.3	101
77	Redox Behavior of High Surface Area Rh-Loaded Ce0.5Zr0.5O2Mixed Oxide. Journal of Catalysis, 1997, 167, 576-580.	6.2	100
78	Base metal-Pt alloys: A general route to high selectivity and stability in the production of biofuels from HMF. Applied Catalysis B: Environmental, 2016, 199, 439-446.	20.2	100
79	Methane Catalytic Combustion over Hierarchical Pd@CeO₂/Siâ€Al₂O₃: Effect of the Presence of Water. ChemCatChem, 2015, 7, 2038-2046.	3.7	98
80	Co-axial heterostructures integrating palladium/titanium dioxide with carbon nanotubes for efficient electrocatalytic hydrogen evolution. Nature Communications, 2016, 7, 13549.	12.8	98
81	Oxidation entropies and enthalpies of ceriaâ€“zirconia solid solutions. Catalysis Today, 2007, 123, 86-93.	4.4	97
82	Photocatalytic decolourization of dyes on NiOâ€“ZnO nano-composites. Photochemical and Photobiological Sciences, 2009, 8, 677-682.	2.9	97
83	Synthesis and Stability of Pd@CeO₂ Coreâ€“Shell Catalyst Films in Solid Oxide Fuel Cell Anodes. ACS Catalysis, 2013, 3, 1801-1809.	11.2	96
84	Synthesis, characterization and photocatalytic activity of NiOâ€“Bi2O3 nanocomposites. Chemical Physics Letters, 2009, 472, 212-216.	2.6	94
85	A Versatile Approach to the Synthesis of Functionalized Thiol-Protected Palladium Nanoparticles. Chemistry of Materials, 2011, 23, 3961-3969.	6.7	94
86	Energy Efficiency Enhancement of Ethanol Electrooxidation on Pdâ€“CeO₂/C in Passive and Active Polymer Electrolyteâ€Membrane Fuel Cells. ChemSusChem, 2012, 5, 1266-1273.	6.8	94
87	Nb₂O₅â€Based Photocatalysts. Advanced Science, 2021, 8, 2003156.	11.2	92
88	Identification of the Structural Phases of Ce_xZr_{1â^'x}O₂ by Eu(III) Luminescence Studies. Journal of the American Chemical Society, 2009, 131, 13155-13160.	13.7	91
89	Photocatalytic activity of zinc modified Bi2O3. Chemical Physics Letters, 2009, 483, 254-261.	2.6	90
90	Rh(1%)@CexZr1â^'xO2â€“Al2O3 nanocomposites: Active and stable catalysts for ethanol steam reforming. Applied Catalysis B: Environmental, 2007, 71, 125-134.	20.2	89

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91	Stabilisation of nanostructured Ce0.2Zr0.8O2 solid solution by impregnation on Al2O3: a suitable method for the production of thermally stable oxygen storage/release promoters for three-way catalysts. Chemical Communications, 2000, , 2167-2168.	4.1	87
92	Active and Stable Embedded Au@CeO₂ Catalysts for Preferential Oxidation of CO. Chemistry of Materials, 2010, 22, 4335-4345.	6.7	87
93	Metal-loaded CeO2-ZrO2 solid solutions as innovative catalysts for automotive catalytic converters. Catalysis Today, 1996, 29, 47-52.	4.4	85
94	Characterization of the Metal Phase in NM/Ce0.68Zr0.32O2 (NM:â€‰ Pt and Pd) Catalysts by Hydrogen Chemisorption and HRTEM Microscopy:â€‰ A Comparative Study. Journal of Physical Chemistry B, 2001, 105, 1191-1199.	2.6	85
95	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO₃ Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2018, 140, 4841-4848.	13.7	85
96	H 2 O 2 sensing enhancement by mutual integration of single walled carbon nanohorns with metal oxide catalysts: The CeO 2 case. Sensors and Actuators B: Chemical, 2017, 239, 923-932.	7.8	84
97	Reduction Process in CeO2â^'MO and CeO2â^'M2O3Mixed Oxides:Â A Computer Simulation Study. Chemistry of Materials, 2003, 15, 3781-3785.	6.7	82
98	Unraveling the surface state and composition of highly selective nanocrystalline Niâ€“Cu alloy catalysts for hydrodeoxygenation of HMF. Catalysis Science and Technology, 2017, 7, 1735-1743.	4.1	82
99	On the rate determining step in the reduction of CeO2â€“ZrO2 mixed oxides. Applied Catalysis B: Environmental, 1999, 22, L11-L14.	20.2	81
100	Metal-Free Photocatalysis: Two-Dimensional Nanomaterial Connection toward Advanced Organic Synthesis. ACS Nano, 2021, 15, 3621-3630.	14.6	81
101	Novel embedded Pd@CeO₂catalysts: a way to active and stable catalysts. Dalton Transactions, 2010, 39, 2122-2127.	3.3	80
102	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. Applied Catalysis B: Environmental, 2017, 202, 72-83.	20.2	80
103	Rhodium Dispersion in a Rh/Ce0.68Zr0.32O2 Catalyst Investigated by HRTEM and H2 Chemisorption. Journal of Physical Chemistry B, 2000, 104, 4667-4672.	2.6	79
104	Plasma-assisted synthesis of Ag/ZnO nanocomposites: First example of photo-induced H2 production and sensing. International Journal of Hydrogen Energy, 2011, 36, 15527-15537.	7.1	79
105	Thermal Stabilization of CexZr1-xO2Oxygen Storage Promoters by Addition of Al2O3:Â Effect of Thermal Aging on Textural, Structural, and Morphological Properties. Chemistry of Materials, 2004, 16, 4273-4285.	6.7	78
106	Interaction of carbon dioxide with Ni(110): A combined experimental and theoretical study. Physical Review B, 2007, 76, .	3.2	78
107	Preparation, Characterization, and Electrochemical Properties of Pure and Composite LaNi0.6Fe0.4O3-Based Cathodes for IT-SOFC. Chemistry of Materials, 2007, 19, 5926-5936.	6.7	78
108	Title is missing!. Topics in Catalysis, 2001, 16/17, 83-87.	2.8	77

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109	Dyeâ€Sensitized Solar Hydrogen Production: The Emerging Role of Metalâ€Free Organic Sensitizers. European Journal of Organic Chemistry, 2016, 2016, 5194-5215.	2.4	77
110	Laser-Excited Luminescence of Trivalent Lanthanide Impurities and Local Structure in CeO2â^'ZrO2 Mixed Oxides. Chemistry of Materials, 2004, 16, 1938-1944.	6.7	75
111	Light-driven, heterogeneous organocatalysts for Câ€“C bond formation toward valuable perfluoroalkylated intermediates. Science Advances, 2020, 6, .	10.3	75
112	A Versatile Route to Coreâ€“Shell Catalysts: Synthesis of Dispersible M@Oxide (M=Pd, Pt;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td 140-148.	6.8	74
113	Atomic Layer Deposition on Porous Materials: Problems with Conventional Approaches to Catalyst and Fuel Cell Electrode Preparation. Inorganics, 2018, 6, 34.	2.7	73
114	Oxygen storage and catalytic NO removal promoted by CeO2-containing mixed oxides. Journal of Alloys and Compounds, 1998, 275-277, 877-885.	5.5	71
115	Brookite: Nothing New under the Sun?. Catalysts, 2017, 7, 304.	3.5	71
116	Variations in the Extent of Pyrochlore-Type Cation Ordering in Ce2Zr2O8:Â A tâ€˜â^'Îº Pathway to Low-Temperature Reduction. Chemistry of Materials, 2005, 17, 1157-1166.	6.7	70
117	H2 production by selective photo-dehydrogenation of ethanol in gas and liquid phase on CuOx/TiO2 nanocomposites. RSC Advances, 2013, 3, 21776.	3.6	70
118	Hydrogen production through alcohol steam reforming on Cu/ZnO-based catalysts. Applied Catalysis B: Environmental, 2011, 101, 397-408.	20.2	69
119	NO reduction by CO over Rh/Al2O3. Effects of rhodium dispersion on the catalytic properties. Journal of Catalysis, 1994, 146, 136-143.	6.2	66
120	Study of the Water-Gas-Shift Reaction on Pd@CeO₂/Al₂O₃ Coreâ^'Shell Catalysts. Journal of Physical Chemistry C, 2011, 115, 915-919.	3.1	66
121	Hydrogen production from ethanol steam reforming on M/CeO2/YSZ (M=Ru, Pd, Ag) nanocomposites. Catalysis Today, 2012, 180, 96-104.	4.4	66
122	FeMo-based catalysts for H2 production by NH3 decomposition. Applied Catalysis B: Environmental, 2012, 125, 409-417.	20.2	64
123	Solid oxide fuel cell cathodes prepared by infiltration of LaNi0.6Fe0.4O3 and La0.91Sr0.09Ni0.6Fe0.4O3 in porous yttria-stabilized zirconia. Journal of Power Sources, 2009, 193, 747-753.	7.8	63
124	Electrochemical Milling and Faceting: Size Reduction and Catalytic Activation of Palladium Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 8500-8504.	13.8	63
125	Phase Transitions and CO₂ Adsorption Properties of Polymeric Magnesium Formate. Crystal Growth and Design, 2008, 8, 3302-3308.	3.0	62
126	Structure-activity relationship in Pd/CeO2 methane oxidation catalysts. Chinese Journal of Catalysis, 2020, 41, 938-950.	14.0	62

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127	Design of a coreâ€“shell Ptâ€“SiO2 catalyst in a reverse microemulsion system: Distinctive kinetics on CO oxidation at low temperature. Journal of Catalysis, 2016, 340, 368-375.	6.2	61
128	Influence of synthesis route on morphology and electrical properties of LaNi0.6Fe0.4O3. Solid State Ionics, 2006, 177, 2957-2965.	2.7	60
129	Embedded Ru@ZrO₂ Catalysts for H₂ Production by Ammonia Decomposition. ChemCatChem, 2010, 2, 1096-1106.	3.7	59
130	Energy Efficiency of Alkaline Direct Ethanol Fuel Cells Employing Nanostructured Palladium Electrocatalysts. ChemCatChem, 2015, 7, 2214-2221.	3.7	58
131	Epitaxial and Strong Support Interactions between Pt and LaFeO₃ Films Stabilize Pt Dispersion. Journal of the American Chemical Society, 2020, 142, 10373-10382.	13.7	58
132	Effects of thermal pretreatment on the redox behaviour of Ce0.5Zr0.5O2: isotopic and spectroscopic studies. Physical Chemistry Chemical Physics, 2002, 4, 149-159.	2.8	57
133	Monolayer Protected Gold Nanoparticles on Ceria for an Efficient CO Oxidation Catalyst. Chemistry of Materials, 2007, 19, 650-651.	6.7	56
134	Direct Alcohol Fuel Cells: Toward the Power Densities of Hydrogenâ€Fed Proton Exchange Membrane Fuel Cells. ChemSusChem, 2015, 8, 524-533.	6.8	56
135	Palladiumâ€“Ceria Catalysts with Enhanced Alkaline Hydrogen Oxidation Activity for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2019, 2, 4999-5008.	5.1	56
136	Opportunities for Tailoring Catalytic Properties Through Metal-Support Interactions. Catalysis Letters, 2012, 142, 1043-1048.	2.6	55
137	Dye-sensitized photocatalytic hydrogen production: distinct activity in a glucose derivative of a phenothiazine dye. Chemical Communications, 2016, 52, 6977-6980.	4.1	55
138	Insight into the Effect of Dual Active Cu⁰/Cu⁺ Sites in a Cu/ZnO-Al₂O₃ Catalyst on 5-Hydroxylmethylfurfural Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 15288-15298.	6.7	55
139	Palladium Carbene Complexes for Selective Alkene Di- and Oligomerization. Organometallics, 2012, 31, 976-986.	2.3	54
140	The H2 Pressure Dependence of Hydrodeoxygenation Selectivities for Furfural Over Pt/C Catalysts. Catalysis Letters, 2016, 146, 711-717.	2.6	54
141	Promotion of reduction in Ce0.5Zr0.5O2: the pyrochlore structure as effect rather than cause?. Physical Chemistry Chemical Physics, 2004, 6, 1-3.	2.8	53
142	Renewable H₂ from Glycerol Steam Reforming: Effect of La₂O₃ and CeO₂ Addition to Pt/Al₂O₃ catalysts.. ChemSusChem, 2010, 3, 619-628.	6.8	53
143	Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. ACS Catalysis, 2017, 7, 1270-1278.	11.2	53
144	Kinetics and Mechanism of the Reduction of NO by n-Octane over Pt/Al2O3under Lean-Burn Conditions. Journal of Catalysis, 1998, 176, 204-214.	6.2	52

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145	Palladiumâ€Catalyzed Ethylene/Methyl Acrylate Cooligomerization: Effect of a New Nonsymmetric Î±â€Diimine. ChemCatChem, 2013, 5, 1170-1183.	3.7	52
146	Relationship between Electrical Behavior and Structural Characteristics in Sr-Doped LaNi_{0.6}Fe_{0.4}O_{3âˆ’Î´} Mixed Oxides. Chemistry of Materials, 2009, 21, 1768-1774.	6.7	51
147	Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects. Chemistry of Materials, 2011, 23, 1923-1938.	6.7	51
148	NO reduction by CO over Pd/Ce0.6Zr0.4O2î—¸Al2O3 catalysts: in situ FT-IR studies of NO and CO adsorption. Inorganica Chimica Acta, 2002, 334, 318-326.	2.4	50
149	Solar and visible light photocatalytic enhancement of halloysite nanotubes/g-C₃N₄ heteroarchitectures. RSC Advances, 2016, 6, 86617-86626.	3.6	50
150	Embedded Rh(1wt.%)@Al2O3: Effects of high temperature and prolonged aging under methane partial oxidation conditions. Applied Catalysis B: Environmental, 2007, 73, 84-97.	20.2	49
151	Alcohol induced ultra-fine dispersion of Pt on tuned morphologies of CeO2 for CO oxidation. Applied Catalysis B: Environmental, 2013, 130-131, 121-131.	20.2	49
152	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. Nano Letters, 2020, 20, 3663-3672.	9.1	49
153	Highly Active and Thermally Stable Core-Shell Catalysts for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2011, 158, B596.	2.9	48
154	The power of EPR techniques in revealing active sites in heterogeneous photocatalysis: The case of anion doped TiO2. Catalysis Today, 2013, 206, 2-11.	4.4	48
155	Tuning Thiopheneâ€Based Phenothiazines for Stable Photocatalytic Hydrogen Production. ChemSusChem, 2015, 8, 4216-4228.	6.8	48
156	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic Photosensitizerâ€“Coadsorbent Intermolecular Interaction. ACS Energy Letters, 2018, 3, 85-91.	17.4	48
157	Pd@TiO₂/carbon nanohorn electrocatalysts: reversible CO₂ hydrogenation to formic acid. Energy and Environmental Science, 2018, 11, 1571-1580.	30.8	47
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