

JosÃ© Antonio PÃ©rez Omil

List of Publications by Year in descending order

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48
papers

1,640
citations

236925

25
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

2118
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the reducibility of CeO ₂ /TiO ₂ by high-temperature redox treatment: the key role of atomically thin CeO ₂ surface layers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13074-13087.	10.3	5
2	Improving the Activity and Stability of YSZ-Supported Gold Powder Catalyst by Means of Ultrathin, Coherent, Ceria Overlayers. <i>Atomic Scale Structural Insights. ACS Catalysis</i> , 2019, 9, 5157-5170.	11.2	6
3	An atomically efficient, highly stable and redox active Ce _{0.5} Tb _{0.5} O _x (3% mol.)/MgO catalyst for total oxidation of methane. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8993-9003.	10.3	12
4	Improving the Redox Response Stability of Ceria-Zirconia Nanocatalysts under Harsh Temperature Conditions. <i>Chemistry of Materials</i> , 2017, 29, 9340-9350.	6.7	21
5	Highly stable ceria-zirconia-yttria supported Ni catalysts for syngas production by CO ₂ reforming of methane. <i>Applied Surface Science</i> , 2017, 426, 864-873.	6.1	46
6	Critical Influence of Redox Pretreatments on the CO Oxidation Activity of BaFeO ₃ Perovskites: An in-Depth Atomic-Scale Analysis by Aberration-Corrected and in Situ Diffraction Techniques. <i>ACS Catalysis</i> , 2017, 7, 8653-8663.	11.2	13
7	Strain Field in Ultrasmall Gold Nanoparticles Supported on Cerium-Based Mixed Oxides. Key Influence of the Support Redox State. <i>Langmuir</i> , 2016, 32, 4313-4322.	3.5	10
8	CeO ₂ -modified Au/TiO ₂ catalysts with outstanding stability under harsh CO oxidation conditions. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 86-94.	20.2	25
9	Critical Influence of Nanofaceting on the Preparation and Performance of Supported Gold Catalysts. <i>ACS Catalysis</i> , 2015, 5, 3504-3513.	11.2	53
10	Ceria-supported Au-CuO and Au-Co ₃ O ₄ catalysts for CO oxidation: An 18 O/ 16 O isotopic exchange study. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 87-97.	20.2	25
11	Speciation-controlled incipient wetness impregnation: A rational synthetic approach to prepare sub-nanosized and highly active ceria-zirconia supported gold catalysts. <i>Journal of Catalysis</i> , 2014, 318, 119-127.	6.2	20
12	Rational design of nanostructured, noble metal free, ceria-zirconia catalysts with outstanding low temperature oxygen storage capacity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4836.	10.3	42
13	A new approach to the ferritin iron core growth: influence of the H/L ratio on the core shape. <i>Dalton Transactions</i> , 2012, 41, 1320-1324.	3.3	55
14	Imaging Nanostructural Modifications Induced by Electronic Metal-Support Interaction Effects at Au Cerium-Based Oxide Nanointerfaces. <i>ACS Nano</i> , 2012, 6, 6812-6820.	14.6	29
15	The effect of reaction conditions on the apparent deactivation of Ce-Zr mixed oxides for the catalytic wet oxidation of phenol. <i>Catalysis Today</i> , 2012, 180, 25-33.	4.4	25
16	Analysis and application of the theories that rationalize the crystalline structures of fluorite-related rare earth oxides. <i>Catalysis Today</i> , 2012, 180, 161-166.	4.4	0
17	A novel procedure for accurate estimations of the lattice parameter of supported nanoparticles from the analysis of plan view HREM images: Application to the structural investigation of Pd/CeO ₂ catalysts. <i>Catalysis Today</i> , 2012, 180, 174-183.	4.4	11
18	Advanced Electron Microscopy Investigation of Ceria-Zirconia-Based Catalysts. <i>ChemCatChem</i> , 2011, 3, 1015-1027.	3.7	16

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19	Chemical Imaging at Atomic Resolution as a Technique To Refine the Local Structure of Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 868-872.	13.8	27
20	Contributions of Electron Microscopy to Understanding CO Adsorption on Powder Au/Ceria-Zirconia Catalysts. <i>Chemistry - A European Journal</i> , 2010, 16, 9536-9543.	3.3	16
21	Bridging the Gap between CO Adsorption Studies on Gold Model Surfaces and Supported Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1981-1985.	13.8	35
22	Electron Microscopy Investigations of Nanostructured Ce/Mn Oxides for Catalytic Wet Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8981-8991.	3.1	16
23	Comparative study of the reducibility under H ₂ and CO of two thermally aged Ce _{0.62} Zr _{0.38} O ₂ mixed oxide samples. <i>Catalysis Today</i> , 2009, 141, 409-414.	4.4	27
24	First Stage of Thermal Aging under Oxidizing Conditions of a Ce _{0.62} Zr _{0.38} O ₂ Mixed Oxide with an Ordered Cationic Sublattice: A Chemical, Nanostructural, and Nanoanalytical Study. <i>Chemistry of Materials</i> , 2008, 20, 5107-5113.	6.7	37
25	Some recent results on the correlation of nano-structural and redox properties in ceria-zirconia mixed oxides. <i>Journal of Alloys and Compounds</i> , 2008, 451, 521-525.	5.5	32
26	Preparation of Rhodium/Ce _x Pr _{1-x} O ₂ Catalysts: A Nanostructural and Nanoanalytical Investigation of Surface Modifications by Transmission and Scanning-Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5900-5910.	3.1	11
27	3D characterization and metrology of nanostructures by electron tomography. <i>Microscopy and Microanalysis</i> , 2008, 14, 284-285.	0.4	1
28	Structural Surface Investigations of Cerium-Zirconium Mixed Oxide Nanocrystals with Enhanced Reducibility. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9001-9004.	3.1	36
29	Redox Behavior of Thermally Aged Ceria-Zirconia Mixed Oxides. Role of Their Surface and Bulk Structural Properties. <i>Chemistry of Materials</i> , 2006, 18, 2750-2757.	6.7	63
30	The role of the carbonaceous deposits in the Catalytic Wet Oxidation (CWO) of phenol. <i>Catalysis Communications</i> , 2006, 7, 639-643.	3.3	34
31	Some major aspects of the chemical behavior of rare earth oxides: An overview. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 496-502.	5.5	39
32	TEM Investigation of the Synthesis of Rh/CePrOx Catalysts. <i>Microscopy and Microanalysis</i> , 2006, 12, 760-761.	0.4	1
33	TEM (HREM) and STEM (HAADF/EDS) Study of the Metallic Dispersion in Supported Ruthenium Catalysts. <i>Microscopy and Microanalysis</i> , 2006, 12, 810-811.	0.4	0
34	The effect of Ni in Pd-Ni/(Ce,Zr)O/AlO catalysts used for stoichiometric CO and NO elimination. Part 1: Nanoscopic characterization of the catalysts. <i>Journal of Catalysis</i> , 2005, 235, 251-261.	6.2	44
35	Combined HREM and HAADF Scanning Transmission Electron Microscopy: A Powerful Tool for Investigating Structural Changes in Thermally Aged Ceria-Zirconia Mixed Oxides. <i>Chemistry of Materials</i> , 2005, 17, 4282-4285.	6.7	35
36	Preparation and characterization of Ce _{1-x} Mn _x O composites with applications in catalytic wet oxidation processes. <i>Surface and Interface Analysis</i> , 2004, 36, 752-755.	1.8	36

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37	Some contributions of electron microscopy to the characterisation of the strong metal-support interaction effect. <i>Catalysis Today</i> , 2003, 77, 385-406.	4.4	181
38	Computer image HRTEM simulation of catalytic nanoclusters on semiconductor gas sensor materials supports. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 91-92, 534-536.	3.5	5
39	Title is missing!. <i>Catalysis Letters</i> , 2001, 76, 131-137.	2.6	27
40	Rare-earth oxides with fluorite-related structures: their systematic investigation using HREM images, image simulations and electron diffraction pattern simulations. <i>Ultramicroscopy</i> , 1999, 80, 19-39.	1.9	25
41	Image simulation and experimental HREM study of the metal dispersion in Rh/CeO ₂ catalysts. Influence of the reduction/reoxidation conditions. <i>Applied Catalysis B: Environmental</i> , 1998, 16, 127-138.	20.2	50
42	The interpretation of HREM images of supported metal catalysts using image simulation: profile view images. <i>Ultramicroscopy</i> , 1998, 72, 135-164.	1.9	154
43	Reducibility of ceria-lanthana mixed oxides under temperature programmed hydrogen and inert gas flow conditions. <i>Journal of Alloys and Compounds</i> , 1997, 250, 449-454.	5.5	41
44	Lanthanide salts as alternative corrosion inhibitors. <i>Journal of Alloys and Compounds</i> , 1995, 225, 638-641.	5.5	57
45	Influence of the nature of the metal precursor salt on the redox behaviour of ceria in Rh/CeO ₂ catalysts. <i>Studies in Surface Science and Catalysis</i> , 1995, 96, 419-429.	1.5	34
46	Study of the reduction/reoxidation cycle in a La/Ce/Tb mixed oxide. <i>Journal of Alloys and Compounds</i> , 1994, 207-208, 196-200.	5.5	16
47	Characterization of silica dispersed lanthana by CO ₂ adsorption. <i>Journal of Alloys and Compounds</i> , 1994, 207-208, 201-205.	5.5	5
48	Hydrogen chemisorption on ceria: influence of the oxide surface area and degree of reduction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3499.	1.7	138