

Ana Iglesias-Juez

List of Publications by Year in descending order

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62
papers

3,340
citations

136950

32
h-index

144013

57
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63
all docs

63
docs citations

63
times ranked

3649
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined in situ time-resolved UV-Vis, Raman and high-energy resolution X-ray absorption spectroscopy study on the deactivation behavior of Pt and PtSn propane dehydrogenation catalysts under industrial reaction conditions. <i>Journal of Catalysis</i> , 2010, 276, 268-279.	6.2	256
2	Structural Characteristics and Redox Behavior of CeO ₂ -ZrO ₂ /Al ₂ O ₃ Supports. <i>Journal of Catalysis</i> , 2000, 194, 385-392.	6.2	202
3	Properties of CeO ₂ and Ce _{1-x} Zr _x O ₂ Nanoparticles: X-ray Absorption Near-Edge Spectroscopy, Density Functional, and Time-Resolved X-ray Diffraction Studies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3535-3543.	2.6	199
4	Nature of the vanadia/ceria interface in V ₅₊ /CeO ₂ catalysts and its relevance for the solid-state reaction toward CeVO ₄ and catalytic properties. <i>Journal of Catalysis</i> , 2004, 225, 240-248.	6.2	143
5	High-Performance Photocatalytic Hydrogen Production and Degradation of Levofloxacin by Wide Spectrum-Responsive Ag/Fe ₃ O ₄ Bridged SrTiO ₃ /g-C ₃ N ₄ Plasmonic Nanojunctions: Joint Effect of Ag and Fe ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40474-40490.	8.0	140
6	New Pd/Ce _x Zr _{1-x} O ₂ /Al ₂ O ₃ three-way catalysts prepared by microemulsion. <i>Applied Catalysis B: Environmental</i> , 2001, 31, 39-50.	20.2	131
7	Study of the lean NO _x reduction with C ₃ H ₆ in the presence of water over silver/alumina catalysts prepared from inverse microemulsions. <i>Applied Catalysis B: Environmental</i> , 2000, 28, 29-41.	20.2	119
8	Metal-promoter interface in Pd/(Ce,Zr)O _x /Al ₂ O ₃ catalysts: effect of thermal aging. <i>Journal of Catalysis</i> , 2004, 221, 148-161.	6.2	116
9	The behavior of mixed-metal oxides: Physical and chemical properties of bulk Ce _{1-x} Tb _x O ₂ and nanoparticles of Ce _{1-x} Tb _x O _y . <i>Journal of Chemical Physics</i> , 2004, 121, 5434-5444.	3.0	113
10	New Pd/Ce _x Zr _{1-x} O ₂ /Al ₂ O ₃ three-way catalysts prepared by microemulsion. <i>Applied Catalysis B: Environmental</i> , 2001, 31, 51-60.	20.2	112
11	The behavior of mixed-metal oxides: Structural and electronic properties of Ce _{1-x} Ce _x O ₂ and Ce _{1-x} Ce _x O _{2-x} . <i>Journal of Chemical Physics</i> , 2003, 119, 5659-5669.	3.0	112
12	Effect of Thermal Sintering on Light-Off Performance of Pd/(Ce,Zr)O _x /Al ₂ O ₃ Three-Way Catalysts: Model Gas and Engine Tests. <i>Journal of Catalysis</i> , 2001, 204, 238-248.	6.2	90
13	Nature and catalytic role of active silver species in the lean NO _x reduction with C ₃ H ₆ in the presence of water. <i>Journal of Catalysis</i> , 2003, 217, 310-323.	6.2	85
14	Redox interplay at copper oxide-(Ce,Zr)O _x interfaces: influence of the presence of NO on the catalytic activity for CO oxidation over CuO/CeZrO ₄ . <i>Journal of Catalysis</i> , 2003, 214, 261-272.	6.2	83
15	Structural, Morphological, and Oxygen Handling Properties of Nanosized Cerium-Terbium Mixed Oxides Prepared by Microemulsion. <i>Chemistry of Materials</i> , 2003, 15, 4309-4316.	6.7	81
16	Cerium-terbium mixed oxides as potential materials for anodes in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2005, 151, 43-51.	7.8	64
17	Role of the state of the metal component on the light-off performance of Pd-based three-way catalysts. <i>Journal of Catalysis</i> , 2004, 221, 594-600.	6.2	62
18	Light-off behaviour of PdO/Al ₂ O ₃ catalysts for stoichiometric CO-O ₂ and CO-O ₂ -NO reactions: a combined catalytic activity in situ DRIFTS study. <i>Journal of Catalysis</i> , 2004, 221, 85-92.	6.2	60

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19	Effects of Copper on the Catalytic Properties of Bimetallic Pd-Cu/(Ce,Zr)O _x /Al ₂ O ₃ and Pd-Cu/(Ce,Zr)O _x Catalysts for CO and NO Elimination. <i>Journal of Catalysis</i> , 2002, 206, 281-294.	6.2	59
20	Antimicrobial surfaces with self-cleaning properties functionalized by photocatalytic ZnO electrospayed coatings. <i>Journal of Hazardous Materials</i> , 2019, 369, 665-673.	12.4	54
21	Ca Doping of Nanosize Ce-Zr and Ce-Tb Solid Solutions: A Structural and Electronic Effects. <i>Chemistry of Materials</i> , 2005, 17, 4181-4193.	6.7	49
22	Physical and chemical properties of Ce _{1-x} Zr _x O ₂ nanoparticles and Ce _{1-x} Zr _x O ₂ (111) surfaces: synchrotron-based studies. <i>Journal of Molecular Catalysis A</i> , 2005, 228, 11-19.	4.8	47
23	Behavior of bimetallic Pd-Cr/Al ₂ O ₃ and Pd-Cr/(Ce,Zr)O _x /Al ₂ O ₃ catalysts for CO and NO elimination. <i>Journal of Catalysis</i> , 2003, 214, 220-233.	6.2	45
24	Synergy of Contact between ZnO Surface Planes and PdZn Nanostructures: Morphology and Chemical Property Effects in the Intermetallic Sites for Selective 1,3-Butadiene Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 796-811.	11.2	45
25	Thermal behavior of (Ce,Zr)O _x /Al ₂ O ₃ complex oxides prepared by a microemulsion method. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2473-2481.	2.8	43
26	Experimental methods in chemical engineering: X-ray absorption spectroscopy, XAS, XANES, EXAFS. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 3-22.	1.7	41
27	Nanoparticulate Pd Supported Catalysts: Size-Dependent Formation of Pd(I)/Pd(0) and Their Role in CO Elimination. <i>Journal of the American Chemical Society</i> , 2011, 133, 4484-4489.	13.7	40
28	Hydroxyl Identification on ZnO by Infrared Spectroscopies: Theory and Experiments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1492-1505.	3.1	40
29	Morphology effects in photoactive ZnO nanostructures: photooxidative activity of polar surfaces. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8782-8792.	10.3	39
30	Detecting the Genesis of a High-Performance Carbon-Supported Pd Sulfide Nanophase and Its Evolution in the Hydrogenation of Butadiene. <i>ACS Catalysis</i> , 2015, 5, 5235-5241.	11.2	38
31	Structure and activity of iron-doped TiO ₂ -anatase nanomaterials for gas-phase toluene photo-oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 626-634.	4.1	35
32	Influence of thermal sintering on the activity for CO-O ₂ and CO-O ₂ -NO stoichiometric reactions over Pd/(Ce, Zr)O _x /Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2002, 38, 151-158.	20.2	34
33	Redox and catalytic properties of CuO/CeO ₂ under CO+O ₂ +NO: Promoting effect of NO on CO oxidation. <i>Catalysis Today</i> , 2012, 180, 81-87.	4.4	32
34	Observing Oxygen Storage and Release at Work during Cycling Redox Conditions: Synergies between Noble Metal and Oxide Promoter. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2363-2367.	13.8	31
35	Silver-Gold Bimetal-Loaded TiO ₂ Photocatalysts for CO ₂ Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9440-9450.	3.7	30
36	Operando DRIFTS study of the redox and catalytic properties of CuO/Ce _{1-x} Tb _x O ₂ (x = 0-0.5) catalysts: evidence of an induction step during CO oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2144-2151.	2.8	28

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37	Recent progress in the use of in situ X-ray methods for the study of heterogeneous catalysts in packed-bed capillary reactors. <i>Catalysis Today</i> , 2009, 145, 204-212.	4.4	27
38	Illuminating the nature and behavior of the active center: the key for photocatalytic H ₂ production in Co@NH ₂ -MIL-125(Ti). <i>Journal of Materials Chemistry A</i> , 2018, 6, 17318-17322.	10.3	27
39	Pd-based (Ce,Zr)O ₂ -supported catalysts: Promoting effect of base metals (Cr, Cu, Ni) in CO and NO elimination. <i>Catalysis Today</i> , 2009, 143, 195-202.	4.4	26
40	Biocide mechanism of highly efficient and stable antimicrobial surfaces based on zinc oxide/reduced graphene oxide photocatalytic coatings. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8294-8304.	5.8	25
41	On the Nature of the Unusual Redox Cycle at the Vanadia Ceria Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1197-1205.	3.1	24
42	Redox behaviour of Pd-based TWCs under dynamic conditions: analysis using dispersive XAS and mass spectrometry. <i>Chemical Communications</i> , 2005, , 4092.	4.1	23
43	Promotion Effects in the Oxidation of CO over Zeolite-Supported Rh Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9394-9404.	3.1	23
44	Time-Resolved XAS Investigation of the Local Environment and Evolution of Oxidation States of a Fischer-Tropsch Ru/Cs/C Catalyst. <i>ACS Catalysis</i> , 2016, 6, 1437-1445.	11.2	23
45	XAS/DRIFTS/MS spectroscopy for time-resolved <i>operando</i> investigations at high temperature. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1745-1752.	2.4	22
46	Influence of the nature of the Ce-promoter on the behavior of Pd and Pd-Cr TWC systems. <i>Applied Catalysis A: General</i> , 2004, 259, 207-220.	4.3	21
47	Light and Heat Joining Forces: Methanol from Photothermal CO ₂ Hydrogenation. <i>CheM</i> , 2018, 4, 1490-1491.	11.7	20
48	Pd-Au bimetallic catalysts supported on ZnO for selective 1,3-butadiene hydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 2503-2512.	4.1	20
49	Promotion Effects in the Reduction of NO by CO over Zeolite-Supported Rh Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2282-2292.	3.1	19
50	Role of Exposed Surfaces on Zinc Oxide Nanostructures in the Catalytic Ethanol Transformation. <i>ChemSusChem</i> , 2015, 8, 2223-2230.	6.8	17
51	DRIFTS-XANES study of Pd-Ni/(Ce,Zr)O ₂ /Al ₂ O ₃ model automotive catalysts. <i>Catalysis Today</i> , 2007, 126, 90-95.	4.4	15
52	Influence of the Ce-Zr promoter on Pd behaviour under dynamic CO/NO cycling conditions: a structural and chemical approach. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8640.	2.8	15
53	Innovative insights in a plug flow microreactor for <i>operando</i> X-ray studies. <i>Journal of Applied Crystallography</i> , 2013, 46, 1523-1527.	4.5	15
54	A structural and surface approach to size and shape control of sulfur-modified undoped and Fe-doped TiO ₂ anatase nano-materials. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5628.	2.8	14

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55	Surface and Bulk Approach to Time-resolved Characterization of Heterogeneous Catalysts. ChemCatChem, 2012, 4, 725-737.	3.7	14
56	Influence of preparation method on surface and bulk properties of sunlight-active Ti-W mixed oxide photocatalysts. Physical Chemistry Chemical Physics, 2003, 5, 2913-2921.	2.8	12
57	Morphological and structural behavior of TiO ₂ nanoparticles in the presence of WO ₃ : crystallization of the oxide composite system. Physical Chemistry Chemical Physics, 2014, 16, 19540-19549.	2.8	10
58	New Strategies for the Improvement of Automobile Catalysts. International Journal of Molecular Sciences, 2001, 2, 251-262.	4.1	9
59	Effect of different promoter precursors in a model Ru-Cs/graphite system on the catalytic selectivity for Fischer-Tropsch reaction. Applied Surface Science, 2018, 447, 307-314.	6.1	8
60	Understanding W Doping in Wurtzite ZnO. Journal of Physical Chemistry C, 2018, 122, 19082-19089.	3.1	4
61	Photocatalytic Nanooxides: The Case of TiO ₂ and ZnO. , 2013, , 245-266.		2
62	Approaching photocatalysts characterization under real conditions: In situ and operando studies. , 2021, , 139-156.		2