Marcos FernÃ¡ndez-GarcÃ-a

List of Publications by Year
in descending order

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325 papers	23,601 citations	6254 80 h-index	9861 141 g-index
342 all docs	342 docs citations	342 times ranked	23036 citing authors

#	Article	IF	Citations
1	Advanced Nanoarchitectures for Solar Photocatalytic Applications. Chemical Reviews, 2012, 112, 1555-1614.	47.7	2,107
2	Nanostructured Oxides in Chemistry:â€‰ Characterization and Properties. Chemical Reviews, 2004, 104, 4063-4104.	47.7	909
3	Transformations of biomass-derived platform molecules: from high added-value chemicals to fuels via aqueous-phase processing. Chemical Society Reviews, 2011, 40, 5266.	38.1	739
4	Sustainable Preparation of Supported Metal Nanoparticles and Their Applications in Catalysis. ChemSusChem, 2009, 2, 18-45.	6.8	702
5	Ni-based bimetallic heterogeneous catalysts for energy and environmental applications. Energy and Environmental Science, 2016, 9, 3314-3347.	30.8	556
6	Heterogeneous photocatalytic nanomaterials: prospects and challenges in selective transformations of biomass-derived compounds. Chemical Society Reviews, 2014, 43, 765-778.	38.1	539
7	Liquid phase oxidation chemistry in continuous-flow microreactors. Chemical Society Reviews, 2016, 45, 83-117.	38.1	421
8	In Situ Studies of the Active Sites for the Water Gas Shift Reaction over Cuâˆ’CeO2Catalysts:Â Complex Interaction between Metallic Copper and Oxygen Vacancies of Ceria. Journal of Physical Chemistry B, 2006, 110, 428-434.	2.6	415
9	Comparative Study on Redox Properties and Catalytic Behavior for CO Oxidation of CuO/CeO2 and CuO/ZrCeO4 Catalysts. Journal of Catalysis, 2000, 195, 207-216.	6.2	357
10	Understanding the antimicrobial mechanism of TiO2-based nanocomposite films in a pathogenic bacterium. Scientific Reports, 2014, 4, 4134.	3.3	335
11	Selective CO Oxidation in Excess H₂over Copperâˆ’Ceria Catalysts:â€‰ Identification of Active Entities/Species. Journal of the American Chemical Society, 2007, 129, 12064-12065.	13.7	305
12	Structureâˆ’Activity Relationship in Nanostructured Copperâˆ’Ceria-Based Preferential CO Oxidation Catalysts. Journal of Physical Chemistry C, 2007, 111, 11026-11038.	3.1	296
13	Inverse CeO₂/CuO Catalyst As an Alternative to Classical Direct Configurations for Preferential Oxidation of CO in Hydrogen-Rich Stream. Journal of the American Chemical Society, 2010, 132, 34-35.	13.7	278
14	Unusual Physical and Chemical Properties of Cu in Ce1-xCuxO2Oxides. Journal of Physical Chemistry B, 2005, 109, 19595-19603.	2.6	262
15	Dynamic inÂsitu observation of rapid size and shape change of supported Pd nanoparticles during CO/NO cycling. Nature Materials, 2007, 6, 528-532.	27.5	262
16	Structure and activity of nanosized iron-doped anatase TiO2 catalysts for phenol photocatalytic degradation. Applied Catalysis B: Environmental, 2007, 72, 11-17.	20.2	254
17	Graphitic carbon nitride-based photocatalysts: Toward efficient organic transformation for value-added chemicals production. Molecular Catalysis, 2020, 488, 110902.	2.0	245
18	Spectroscopic Study of a Cu/CeO2Catalyst Subjected to Redox Treatments in Carbon Monoxide and Oxygen. Journal of Catalysis, 1999, 182, 367-377.	6.2	237

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19	Biodiesel as feasible petrol fuel replacement: a multidisciplinary overview. Energy and Environmental Science, 2010, 3, 1706.	30.8	224
20	Visible light-activated nanosized doped-TiO2 photocatalysts. Chemical Communications, 2001, , 2718-2719.	4.1	219
21	Structural and Redox Properties of Ceria in Alumina-Supported Ceria Catalyst Supports. Journal of Physical Chemistry B, 2000, 104, 4038-4046.	2.6	204
22	Nanosize Tiâ€"W Mixed Oxides: Effect of Doping Level in the Photocatalytic Degradation of Toluene Using Sunlight-Type Excitation. Journal of Catalysis, 2002, 212, 1-9.	6.2	204
23	Structural Characteristics and Redox Behavior of CeO2â€"ZrO2/Al2O3 Supports. Journal of Catalysis, 2000, 194, 385-392.	6.2	202
24	Properties of CeO2and Ce1-xZrxO2Nanoparticles:Â X-ray Absorption Near-Edge Spectroscopy, Density Functional, and Time-Resolved X-ray Diffraction Studies. Journal of Physical Chemistry B, 2003, 107, 3535-3543.	2.6	199
25	Characterization of High Surface Area Zrâ^'Ce (1:1) Mixed Oxide Prepared by a Microemulsion Method. Langmuir, 1999, 15, 4796-4802.	3.5	194
26	Cationic (V, Mo, Nb, W) doping of TiO2â€"anatase: A real alternative for visible light-driven photocatalysts. Catalysis Today, 2009, 143, 286-292.	4.4	188
27	Role of Interface Contact in CeO₂â€"TiO₂ Photocatalytic Composite Materials. ACS Catalysis, 2014, 4, 63-72.	11.2	178
28	Interfacial Redox Processes under CO/O2in a Nanoceria-Supported Copper Oxide Catalyst. Journal of Physical Chemistry B, 2004, 108, 17983-17991.	2.6	155
29	Influence of Ceria on Pd Activity for the CO+O2 Reaction. Journal of Catalysis, 1999, 187, 474-485.	6.2	151
30	Unusual Physical and Chemical Properties of Ni in Ce_{1â^'<i>x</i>}Ni_{<i>x</i>}O_{2â^'<i>y</i>} Oxides: Structural Characterization and Catalytic Activity for the Water Gas Shift Reaction. Journal of Physical Chemistry C, 2010, 114, 12689-12697.	3.1	151
31	Nitrogen-containing TiO2 photocatalysts. Applied Catalysis B: Environmental, 2006, 65, 309-314.	20.2	146
32	Nature of the vanadia?ceria interface in V5+/CeO2 catalysts and its relevance for the solid-state reaction toward CeVO4 and catalytic properties. Journal of Catalysis, 2004, 225, 240-248.	6.2	143
33	Interface Effects in Sunlight-Driven Ag/g-C₃N₄ Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 2617-2627.	8.0	140
34	New Pd/CexZr1â^'xO2/Al2O3 three-way catalysts prepared by microemulsion. Applied Catalysis B: Environmental, 2001, 31, 39-50.	20.2	131
35	Mechanochemistry: Toward Sustainable Design of Advanced Nanomaterials for Electrochemical Energy Storage and Catalytic Applications. ACS Sustainable Chemistry and Engineering, 2018, 6, 9530-9544.	6.7	130
36	EPR study of the photoassisted formation of radicals on CeO2 nanoparticles employed for toluene photooxidation. Applied Catalysis B: Environmental, 2004, 50, 167-175.	20.2	128

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37	Disinfection capability of Ag/g-C 3 N 4 composite photocatalysts under UV and visible light illumination. Applied Catalysis B: Environmental, 2016, 183, 86-95.	20.2	127
38	XANES analysis of catalytic systems under reaction conditions. Catalysis Reviews - Science and Engineering, 2002, 44, 59-121.	12.9	126
39	High-Performance Dual-Action Polymerâ^'TiO₂ Nanocomposite Films via Melting Processing. Nano Letters, 2007, 7, 2529-2534.	9.1	121
40	Study of the lean NOx reduction with C3H6 in the presence of water over silver/alumina catalysts prepared from inverse microemulsions. Applied Catalysis B: Environmental, 2000, 28, 29-41.	20.2	119
41	Redox-catalytic correlations in oxidised copper-ceria CO-PROX catalysts. Catalysis Today, 2009, 143, 211-217.	4.4	118
42	XANES-TPR Study of Cu-Pd Bimetallic Catalysts: Application of Factor Analysis. The Journal of Physical Chemistry, 1995, 99, 12565-12569.	2.9	116
43	Metalâ€"promoter interface in Pd/(Ce,Zr)Ox/Al2O3 catalysts: effect of thermal aging. Journal of Catalysis, 2004, 221, 148-161.	6.2	116
44	Nanostructured Tiâ€"M mixed-metal oxides: Toward a visible light-driven photocatalyst. Journal of Catalysis, 2008, 254, 272-284.	6.2	116
45	Preferential oxidation of CO in a H2-rich stream over CuO/CeO2 and CuO/(Ce,M)Ox (M=Zr, Tb) catalysts. Journal of Power Sources, 2005, 151, 32-42.	7.8	115
46	Thermoâ€Photocatalysis: Environmental and Energy Applications. ChemSusChem, 2019, 12, 2098-2116.	6.8	115
47	The behavior of mixed-metal oxides: Physical and chemical properties of bulk Ce1â^'xTbxO2 and nanoparticles of Ce1â^'xTbxOy. Journal of Chemical Physics, 2004, 121, 5434-5444.	3.0	113
48	New Pd/CexZr1â^'xO2/Al2O3 three-way catalysts prepared by microemulsion. Applied Catalysis B: Environmental, 2001, 31, 51-60.	20.2	112
49	The behavior of mixed-metal oxides: Structural and electronic properties of Ce1â^'xCaxO2 and Ce1â^'xCaxO2â^'x. Journal of Chemical Physics, 2003, 119, 5659-5669.	3.0	112
50	Hard X-ray photon-in photon-out spectroscopy. Catalysis Today, 2009, 145, 294-299.	4.4	112
51	Towards a Bio-Based Industry: Benign Catalytic Esterifications of Succinic Acid in the Presence of Water. Chemistry - A European Journal, 2007, 13, 6914-6919.	3.3	111
52	Selfâ€Sterilized EVOHâ€TiO₂ Nanocomposites: Interface Effects on Biocidal Properties. Advanced Functional Materials, 2008, 18, 1949-1960.	14.9	111
53	High Activity of Ce_{1â^'<i>x</i>}Ni_{<i>x</i>}O_{2â^'<i>y</i>} for H₂ Production through Ethanol Steam Reforming: Tuning Catalytic Performance through Metalâ€"Oxide Interactions. Angewandte Chemie - International Edition, 2010, 49, 9680-9684.	13.8	108
54	High-performance Er3+â€"TiO2 system: Dual up-conversion and electronic role of the lanthanide. Journal of Catalysis, 2013, 299, 298-306.	6.2	108

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55	Comparative study on redox properties of nanosized CeO2 and CuO/CeO2 under CO/O2. Journal of Catalysis, 2006, 240, 1-7.	6.2	106
56	Anatase-TiO2Nanomaterials:â€‰ Morphological/Size Dependence of the Crystallization and Phase Behavior Phenomena. Journal of Physical Chemistry C, 2007, 111, 674-682.	3.1	104
57	Ag promotion of TiO2-anatase disinfection capability: Study of Escherichia coli inactivation. Applied Catalysis B: Environmental, 2008, 84, 87-93.	20.2	102
58	Alloy Formation and Stability in Pdâ˜'Cu Bimetallic Catalysts. The Journal of Physical Chemistry, 1996, 100, 16247-16254.	2.9	100
59	Halloysiteâ€"TiO2 nanocomposites: Synthesis, characterization and photocatalytic activity. Applied Catalysis B: Environmental, 2013, 132-133, 416-422.	20.2	98
60	On modelling the interaction of CO on the MgO(100) surface. Surface Science, 1995, 327, 59-73.	1.9	96
61	Influence of Ceria on the Dispersion and Reduction/Oxidation Behaviour of Alumina-Supported Copper Catalysts. Journal of Catalysis, 1997, 172, 146-159.	6.2	96
62	Confinement effects in quasi-stoichiometric CeO2nanoparticles. Physical Chemistry Chemical Physics, 2004, 6, 3524-3529.	2.8	95
63	Selective Reduction of NOxwith Propene under Oxidative Conditions:Â Nature of the Active Sites on Copper-Based Catalysts. Journal of the American Chemical Society, 1997, 119, 2905-2914.	13.7	93
64	Effect of Thermal Sintering on Light-Off Performance of Pd/(Ce,Zr)Ox/Al2O3 Three-Way Catalysts: Model Gas and Engine Tests. Journal of Catalysis, 2001, 204, 238-248.	6.2	90
65	Nanostructured Tiâ˜'W Mixed-Metal Oxides:â€‰ Structural and Electronic Properties. Journal of Physical Chemistry B, 2005, 109, 6075-6083.	2.6	90
66	Photocatalytic behaviour of Bi2MO6 polymetalates for rhodamine B degradation. Catalysis Today, 2009, 143, 274-281.	4.4	90
67	Combining Time-Resolved Hard X-ray Diffraction and Diffuse Reflectance Infrared Spectroscopy To Illuminate CO Dissociation and Transient Carbon Storage by Supported Pd Nanoparticles during CO/NO Cycling. Journal of the American Chemical Society, 2010, 132, 4540-4541.	13.7	89
68	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. Green Chemistry, 2011, 13, 2750.	9.0	89
69	Environmental Catalysis: Present and Future. ChemCatChem, 2019, 11, 18-38.	3.7	87
70	Continuous flow transformations of glycerol to valuable products: an overview. Sustainable Chemical Processes, 2014, 2, .	2.3	86
71	Nature and catalytic role of active silver species in the lean NOx reduction with C3H6 in the presence of water. Journal of Catalysis, 2003, 217, 310-323.	6.2	85
72	Enhancing photocatalytic performance of TiO2 in H2 evolution via Ru co-catalyst deposition. Applied Catalysis B: Environmental, 2018, 238, 434-443.	20.2	85

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73	Redox interplay at copper oxide-(Ce,Zr)Ox interfaces: influence of the presence of NO on the catalytic activity for CO oxidation over CuO/CeZrO4. Journal of Catalysis, 2003, 214, 261-272.	6.2	83
74	Influence of N-Doping on the Structure and Electronic Properties of Titania Nanoparticle Photocatalysts. Journal of Physical Chemistry B, 2006, 110, 16482-16486.	2.6	83
75	Nitrogen-containing TiO2 photocatalysts. Applied Catalysis B: Environmental, 2006, 65, 301-308.	20.2	83
76	Effect of g-C3N4 loading on TiO2-based photocatalysts: UV and visible degradation of toluene. Catalysis Science and Technology, 2014, 4, 2006.	4.1	83
77	Anatase-TiO₂ Nanomaterials:â€‰ Analysis of Key Parameters Controlling Crystallization. Journal of the American Chemical Society, 2007, 129, 13604-13612.	13.7	82
78	EPR study on oxygen handling properties of ceria, zirconia and Zrâ€“Ce (1 : 1) mixed oxide samples. Catalysis Letters, 2000, 65, 197-204.	2.6	81
79	Structural, Morphological, and Oxygen Handling Properties of Nanosized Ceriumâˆ'Terbium Mixed Oxides Prepared by Microemulsion. Chemistry of Materials, 2003, 15, 4309-4316.	6.7	81
80	Boosting TiO2-anatase antimicrobial activity: Polymer-oxide thin films. Applied Catalysis B: Environmental, 2009, 89, 441-447.	20.2	81
81	Doping level effect on sunlight-driven W,N-co-doped TiO2-anatase photo-catalysts for aromatic hydrocarbon partial oxidation. Applied Catalysis B: Environmental, 2010, 93, 274-281.	20.2	80
82	Cuâ€“TiO2 systems for the photocatalytic H2 production: Influence of structural and surface support features. Applied Catalysis B: Environmental, 2015, 179, 468-478.	20.2	79
83	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. Chemical Society Reviews, 2019, 48, 637-682.	38.1	79
84	Catalytic hydrogen production through WGS or steam reforming of alcohols over Cu, Ni and Co catalysts. Applied Catalysis A: General, 2016, 518, 2-17.	4.3	78
85	Interaction of CO and NO with PdCu(111) Surfaces. Journal of Physical Chemistry B, 1998, 102, 8017-8023.	2.6	74
86	N- and/or W-(co)doped TiO2-anatase catalysts: Effect of the calcination treatment on photoactivity. Applied Catalysis B: Environmental, 2010, 95, 238-244.	20.2	74
87	UV and visible light optimization of anatase TiO2 antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. Applied Catalysis B: Environmental, 2013, 140-141, 680-690.	20.2	73
88	Unraveling the Active Site in Copperâˆ'Ceria Systems for the Waterâˆ'Gas Shift Reaction: In Situ Characterization of an Inverse Powder CeO_{2âˆ'<i>x</i>}/CuOâˆ'Cu Catalyst. Journal of Physical Chemistry C, 2010, 114, 3580-3587.	3.1	71
89	Resonant X-ray spectroscopy to study K absorption pre-edges in 3d transition metal compounds. European Physical Journal: Special Topics, 2009, 169, 207-214.	2.6	70
90	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. Green Chemistry, 2013, 15, 2786.	9.0	70

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91	Bimetallic Pt-Pd co-catalyst Nb-doped TiO2 materials for H2 photo-production under UV and Visible light illumination. Applied Catalysis B: Environmental, 2018, 238, 533-545.	20.2	70
92	Measuring and interpreting quantum efficiency for hydrogen photo-production using Pt-titania catalysts. Journal of Catalysis, 2017, 347, 157-169.	6.2	68
93	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. Journal of Physical Chemistry C, 2009, 113, 9182-9190.	3.1	66
94	Mechanochemical synthesis of three double perovskites: Cs₂AgBiBr₆, (CH₃NH₃)₂TlBiBr₆ and Cs₂AgSbBr₆. Nanoscale, 2019, 11, 16650-16657.	5.6	65
95	Ceriumâ€“terbium mixed oxides as potential materials for anodes in solid oxide fuel cells. Journal of Power Sources, 2005, 151, 43-51.	7.8	64
96	Composite Bi2O3â€“TiO2 catalysts for toluene photo-degradation: Ultraviolet and visible light performances. Applied Catalysis B: Environmental, 2014, 156-157, 307-313.	20.2	63
97	Promotion of CeO2â€“TiO2 photoactivity by g-C3N4: Ultraviolet and visible light elimination of toluene. Applied Catalysis B: Environmental, 2015, 164, 261-270.	20.2	63
98	Behavior of Palladiumâ€“Copper Catalysts for CO and NO Elimination. Journal of Catalysis, 2000, 190, 387-395.	6.2	62
99	Role of the state of the metal component on the light-off performance ofÂ Pd-based three-way catalysts. Journal of Catalysis, 2004, 221, 594-600.	6.2	62
100	Nanosized Tiâ€“V mixed oxides: Effect of doping level in the photo-catalytic degradation of toluene using sunlight-type excitation. Applied Catalysis B: Environmental, 2007, 74, 26-33.	20.2	62
101	Influence of Structural and Surface Characteristics of Ti1-xZrxO2 Nanoparticles on the Photocatalytic Degradation of Methylcyclohexane in the Gas Phase. Chemistry of Materials, 2007, 19, 4283-4291.	6.7	61
102	Evolution of H2 photoproduction with Cu content on CuO -TiO2 composite catalysts prepared by a microemulsion method. Applied Catalysis B: Environmental, 2015, 163, 214-222.	20.2	61
103	Light-off behaviour of PdO/Î³-Al2O3 catalysts for stoichiometric COâ€“O2 and COâ€“O2â€“NO reactions: a combined catalytic activityâ€“in situ DRIFTSÂ study. Journal of Catalysis, 2004, 221, 85-92.	6.2	60
104	Biodegradable Polycaprolactone-Titania Nanocomposites: Preparation, Characterization and Antimicrobial Properties. International Journal of Molecular Sciences, 2013, 14, 9249-9266.	4.1	60
105	Effects of Copper on the Catalytic Properties of Bimetallic Pdâ€“Cu/(Ce,Zr)Ox/Al2O3 and Pdâ€“Cu/(Ce,Zr)Ox Catalysts for CO and NO Elimination. Journal of Catalysis, 2002, 206, 281-294.	6.2	59
106	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. Journal of Catalysis, 2015, 330, 154-166.	6.2	59
107	Phaseâ€Contact Engineering in Monoâ€•and Bimetallic Cuâ€Ni Coâ€catalysts for Hydrogen Photocatalytic Materials. Angewandte Chemie - International Edition, 2018, 57, 1199-1203.	13.8	59
108	Sunlight-driven toluene photo-elimination using CeO2-TiO2 composite systems: A kinetic study. Applied Catalysis B: Environmental, 2013, 140-141, 626-635.	20.2	58

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109	Composite H3PW12O40â€“TiO2 catalysts for toluene selective photo-oxidation. Applied Catalysis B: Environmental, 2018, 225, 100-109.	20.2	58
110	Photoformed electron transfer from TiO2 to metal clusters. Catalysis Communications, 2008, 9, 1991-1995.	3.3	56
111	Characterization of Active Sites/Entities and Redox/Catalytic Correlations in Copper-Ceria-Based Catalysts for Preferential Oxidation of CO in H2-Rich Streams. Catalysts, 2013, 3, 378-400.	3.5	56
112	Acetaldehyde degradation under UV and visible irradiation using CeO2â€“TiO2 composite systems: Evaluation of the photocatalytic efficiencies. Chemical Engineering Journal, 2014, 255, 297-306.	12.7	56
113	Study of the Heterometallic Bond Nature in PdCu(111) Surfaces. Journal of Physical Chemistry B, 1998, 102, 141-147.	2.6	55
114	Morphological and Structural Changes during the Reduction and Reoxidation of CuO/CeO₂and Ce_{1â€“<i>x</i>}Cu_{<i>x</i>}O₂Nanocatalysts:<i>In Situ</i>Studies with Environmental TEM, XRD, and XAS. Journal of Physical Chemistry C, 2011, 115, 13851-13859.	3.1	55
115	Tracking Down the Reduction Behavior of Copper-on-Alumina Catalysts. Journal of Catalysis, 1998, 178, 253-263.	6.2	54
116	Influence of sulfur on the structural, surface properties and photocatalytic activity of sulfated TiO2. Applied Catalysis B: Environmental, 2009, 90, 633-641.	20.2	52
117	The effect of Ni in Pdâ€“Ni/(Ce,Zr)O/AlO catalysts used for stoichiometric CO and NO elimination. Part 2: Catalytic activity and in situ spectroscopic studies. Journal of Catalysis, 2005, 235, 262-271.	6.2	51
118	Evaluation of the Role of the Metalâ€“Support Interfacial Centers in the Dry Reforming of Methane on Alumina-Supported Rhodium Catalysts. Journal of Catalysis, 2000, 190, 296-308.	6.2	50
119	Ceâ€“Zrâ€“Ca Ternary Mixed Oxides: Structural Characteristics and Oxygen Handling Properties. Journal of Catalysis, 2002, 211, 326-334.	6.2	50
120	Ca Doping of Nanosize Ceâˆ'Zr and Ceâˆ'Tb Solid Solutions:Â Structural and Electronic Effects. Chemistry of Materials, 2005, 17, 4181-4193.	6.7	49
121	Operando DRIFTS and XANES Study of Deactivating Effect of CO₂on a Ce_{0.8}Cu_{0.2}O₂CO-PROX Catalyst. Journal of Physical Chemistry C, 2010, 114, 18576-18582.	3.1	49
122	Nature-inspired hierarchical materials for sensing and energy storage applications. Chemical Society Reviews, 2021, 50, 4856-4871.	38.1	49
123	Surface and Bulk Characterisation of Metallic Phases Present during CO Hydrogenation over Pdâ€“Cu/KL Zeolite Catalysts. Journal of Catalysis, 1996, 164, 477-483.	6.2	48
124	Water-Gas Shift Reaction on Niâ€“Wâ€“Ce Catalysts: Catalytic Activity and Structural Characterization. Journal of Physical Chemistry C, 2014, 118, 2528-2538.	3.1	48
125	Microwave-assisted preparation of Ag/Ag₂S carbon hybrid structures from pig bristles as efficient HER catalysts. Journal of Materials Chemistry A, 2018, 6, 21516-21523.	10.3	48
126	Spectroscopic Characterization of Heterogeneity and Redox Effects in Zirconiumâˆ'Cerium (1:1) Mixed Oxides Prepared by Microemulsion Methods. Journal of Physical Chemistry B, 2003, 107, 2667-2677.	2.6	47

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127	Physical and chemical properties of Ce1â^’xZrxO2 nanoparticles and Ce1â^’xZrxO2(111) surfaces: synchrotron-based studies. Journal of Molecular Catalysis A, 2005, 228, 11-19.	4.8	47
128	W,N-Codoped TiO₂-Anatase: A Sunlight-Operated Catalyst for Efficient and Selective Aromatic Hydrocarbons Photo-Oxidation. Journal of Physical Chemistry C, 2009, 113, 8553-8555.	3.1	47
129	Superior performance of Niâ€"Wâ€"Ce mixed-metal oxide catalysts for ethanol steam reforming: Synergistic effects of W- and Ni-dopants. Journal of Catalysis, 2015, 321, 90-99.	6.2	47
130	Efficient Electrochemical Production of Syngas from CO₂ and H₂O by using a Nanostructured Ag/gâ€C₃N₄ Catalyst. ChemElectroChem, 2016, 3, 1497-1502.	3.4	46
131	Photoactivity and charge trapping sites in copper and vanadium doped anatase TiO₂ nano-materials. Catalysis Science and Technology, 2016, 6, 1094-1105.	4.1	46
132	g-C3N4/TiO2 composite catalysts for the photo-oxidation of toluene: Chemical and charge handling effects. Chemical Engineering Journal, 2019, 378, 122228.	12.7	46
133	Behavior of bimetallic Pd?Cr/Al2O3 and Pd?Cr/(Ce,Zr)Ox/Al2O3 catalysts for CO and NO elimination. Journal of Catalysis, 2003, 214, 220-233.	6.2	45
134	The effect of Ni in Pdâ€"Ni/(Ce,Zr)O/AlO catalysts used for stoichiometric CO and NO elimination. Part 1: Nanoscopic characterization of the catalysts. Journal of Catalysis, 2005, 235, 251-261.	6.2	44
135	Ironâ€"sulfur codoped TiO2 anatase nano-materials: UV and sunlight activity for toluene degradation. Applied Catalysis B: Environmental, 2012, 117-118, 310-316.	20.2	44
136	Hydrogen thermo-photo production using Ru/TiO2: Heat and light synergistic effects. Applied Catalysis B: Environmental, 2019, 256, 117790.	20.2	44
137	Thermal behavior of (Ce,Zr)Ox/Al2O3 complex oxides prepared by a microemulsion method. Physical Chemistry Chemical Physics, 2002, 4, 2473-2481.	2.8	43
138	Role of Pt in Pt/Ba/Al2O3NOxstorage and reduction traps. Physical Chemistry Chemical Physics, 2003, 5, 4418-4427.	2.8	43
139	Effect of exfoliation and surface deposition of MnOx species in g-C3N4: Toluene photo-degradation under UV and visible light. Applied Catalysis B: Environmental, 2017, 203, 663-672.	20.2	43
140	Facile mechanochemical modification of g-C3N4 for selective photo-oxidation of benzyl alcohol. Chemical Engineering Science, 2019, 194, 78-84.	3.8	43
141	Influence of Sn4+on the structural and electronic properties of Ti1â^’xSnxO2nanoparticles used as photocatalysts. Physical Chemistry Chemical Physics, 2006, 8, 2421-2430.	2.8	42
142	Tailoring polymerâ€"TiO2 film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. Applied Catalysis B: Environmental, 2011, 104, 346-352.	20.2	42
143	Catalytic and redox properties of bimetallic Cuâ€"Ni systems combined with CeO2 or Gd-doped CeO2 for methane oxidation and decomposition. Applied Catalysis B: Environmental, 2012, 111-112, 96-105.	20.2	42
144	Chromiumâ€"saponite clay catalysts: Preparation, characterization and catalytic performance in propene oxidation. Applied Catalysis A: General, 2007, 327, 1-12.	4.3	41

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145	Mechanochemical Synthesis of TiO2 Nanocomposites as Photocatalysts for Benzyl Alcohol Photo-Oxidation. Nanomaterials, 2016, 6, 93.	4.1	41
146	UV and visible hydrogen photo-production using Pt promoted Nb-doped TiO 2 photo-catalysts: Interpreting quantum efficiency. Applied Catalysis B: Environmental, 2017, 216, 133-145.	20.2	41
147	Nanoparticulate Pd Supported Catalysts: Size-Dependent Formation of Pd(I)/Pd(0) and Their Role in CO Elimination. Journal of the American Chemical Society, 2011, 133, 4484-4489.	13.7	40
148	Three-phase nanocomposites of two nanoclays and TiO2: Synthesis, characterization and photacatalytic activities. Applied Catalysis B: Environmental, 2014, 147, 526-533.	20.2	40
149	Hydroxyl Identification on ZnO by Infrared Spectroscopies: Theory and Experiments. Journal of Physical Chemistry C, 2014, 118, 1492-1505.	3.1	40
150	Morphology effects in photoactive ZnO nanostructures: photooxidative activity of polar surfaces. Journal of Materials Chemistry A, 2015, 3, 8782-8792.	10.3	39
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