

Marcos Fernandez-Garca

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327
papers

20,122
citations

73
h-index

131
g-index

341
ext. papers

21,700
ext. citations

10.1
avg, IF

7.11
L-index

#	Paper	IF	Citations
327	Advanced nanoarchitectures for solar photocatalytic applications. <i>Chemical Reviews</i> , 2012 , 112, 1555-6148	48.1	1888
326	Nanostructured oxides in chemistry: characterization and properties. <i>Chemical Reviews</i> , 2004 , 104, 4063-484	40.4	802
325	Transformations of biomass-derived platform molecules: from high added-value chemicals to fuels via aqueous-phase processing. <i>Chemical Society Reviews</i> , 2011 , 40, 5266-81	58.5	628
324	Sustainable preparation of supported metal nanoparticles and their applications in catalysis. <i>ChemSusChem</i> , 2009 , 2, 18-45	8.3	623
323	Heterogeneous photocatalytic nanomaterials: prospects and challenges in selective transformations of biomass-derived compounds. <i>Chemical Society Reviews</i> , 2014 , 43, 765-78	58.5	439
322	Ni-based bimetallic heterogeneous catalysts for energy and environmental applications. <i>Energy and Environmental Science</i> , 2016 , 9, 3314-3347	35.4	413
321	In situ studies of the active sites for the water gas shift reaction over Cu-CeO ₂ catalysts: complex interaction between metallic copper and oxygen vacancies of ceria. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 428-34	3.4	371
320	Liquid phase oxidation chemistry in continuous-flow microreactors. <i>Chemical Society Reviews</i> , 2016 , 45, 83-117	58.5	344
319	Comparative Study on Redox Properties and Catalytic Behavior for CO Oxidation of CuO/CeO ₂ and CuO/ZrCeO ₄ Catalysts. <i>Journal of Catalysis</i> , 2000 , 195, 207-216	7.3	321
318	Selective CO oxidation in excess H ₂ over copper-ceria catalysts: identification of active entities/species. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12064-5	16.4	274
317	Structure-Activity Relationship in Nanostructured Copper-Ceria-Based Preferential CO Oxidation Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11026-11038	3.8	266
316	Inverse CeO ₂ /CuO catalyst as an alternative to classical direct configurations for preferential oxidation of CO in hydrogen-rich stream. <i>Journal of the American Chemical Society</i> , 2010 , 132, 34-5	16.4	256
315	Dynamic in situ observation of rapid size and shape change of supported Pd nanoparticles during CO/NO cycling. <i>Nature Materials</i> , 2007 , 6, 528-32	27	238
314	Understanding the antimicrobial mechanism of TiO ₂ -based nanocomposite films in a pathogenic bacterium. <i>Scientific Reports</i> , 2014 , 4, 4134	4.9	237
313	Structure and activity of nanosized iron-doped anatase TiO ₂ catalysts for phenol photocatalytic degradation. <i>Applied Catalysis B: Environmental</i> , 2007 , 72, 11-17	21.8	235
312	Unusual physical and chemical properties of Cu in Ce(1-x)Cu(x)O(2) oxides. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19595-603	3.4	235
311	Spectroscopic Study of a Cu/CeO ₂ Catalyst Subjected to Redox Treatments in Carbon Monoxide and Oxygen. <i>Journal of Catalysis</i> , 1999 , 182, 367-377	7.3	203

310	Visible light-activated nanosized doped-TiO ₂ photocatalysts. <i>Chemical Communications</i> , 2001 , 2718-2719	3.8	201
309	Biodiesel as feasible petrol fuel replacement: a multidisciplinary overview. <i>Energy and Environmental Science</i> , 2010 , 3, 1706	35.4	198
308	Nanosize TiO ₂ Mixed Oxides: Effect of Doping Level in the Photocatalytic Degradation of Toluene Using Sunlight-Type Excitation. <i>Journal of Catalysis</i> , 2002 , 212, 1-9	7.3	190
307	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	3.4	188
306	Structural and Redox Properties of Ceria in Alumina-Supported Ceria Catalyst Supports. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4038-4046	3.4	184
305	Structural Characteristics and Redox Behavior of CeO ₂ /ZrO ₂ /Al ₂ O ₃ Supports. <i>Journal of Catalysis</i> , 2000 , 194, 385-392	7.3	173
304	Cationic (V, Mo, Nb, W) doping of TiO ₂ /anatase: A real alternative for visible light-driven photocatalysts. <i>Catalysis Today</i> , 2009 , 143, 286-292	5.3	172
303	Characterization of High Surface Area ZrO ₂ /Ce (1:1) Mixed Oxide Prepared by a Microemulsion Method. <i>Langmuir</i> , 1999 , 15, 4796-4802	4	168
302	Role of Interface Contact in CeO ₂ /TiO ₂ Photocatalytic Composite Materials. <i>ACS Catalysis</i> , 2014 , 4, 63-72	13.1	150
301	Graphitic carbon nitride-based photocatalysts: Toward efficient organic transformation for value-added chemicals production. <i>Molecular Catalysis</i> , 2020 , 488, 110902	3.3	139
300	Interfacial Redox Processes under CO/O ₂ in a Nanoceria-Supported Copper Oxide Catalyst. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17983-17991	3.4	138
299	Unusual Physical and Chemical Properties of Ni in Ce _{1-x} Ni _x O ₂ Oxides: Structural Characterization and Catalytic Activity for the Water Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12689-12697	3.8	135
298	Influence of Ceria on Pd Activity for the CO+O ₂ Reaction. <i>Journal of Catalysis</i> , 1999 , 187, 474-485	7.3	135
297	Nitrogen-containing TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2006 , 65, 309-314	21.8	133
296	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	7.3	124
295	Interface Effects in Sunlight-Driven Ag/g-C ₃ N ₄ Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2617-27	9.5	121
294	EPR study of the photoassisted formation of radicals on CeO ₂ nanoparticles employed for toluene photooxidation. <i>Applied Catalysis B: Environmental</i> , 2004 , 50, 167-175	21.8	116
293	New Pd/Ce _x Zr _{1-x} O ₂ /Al ₂ O ₃ three-way catalysts prepared by microemulsion: Part 1. Characterization and catalytic behavior for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2001 , 31, 39-50	21.8	115

292	High-performance dual-action polymer-TiO ₂ nanocomposite films via melting processing. <i>Nano Letters</i> , 2007 , 7, 2529-34	11.5	114
291	Nanostructured TiO ₂ mixed-metal oxides: Toward a visible light-driven photocatalyst. <i>Journal of Catalysis</i> , 2008 , 254, 272-284	7.3	111
290	Disinfection capability of Ag/g-C ₃ N ₄ composite photocatalysts under UV and visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 86-95	21.8	110
289	XANES analysis of catalytic systems under reaction conditions. <i>Catalysis Reviews - Science and Engineering</i> , 2002 , 44, 59-121	12.6	110
288	Towards a bio-based industry: benign catalytic esterifications of succinic acid in the presence of water. <i>Chemistry - A European Journal</i> , 2007 , 13, 6914-9	4.8	105
287	Comparative study on redox properties of nanosized CeO ₂ and CuO/CeO ₂ under CO/O ₂ . <i>Journal of Catalysis</i> , 2006 , 240, 1-7	7.3	104
286	Anatase-TiO ₂ Nanomaterials: Morphological/Size Dependence of the Crystallization and Phase Behavior Phenomena. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 674-682	3.8	102
285	XANES-TPR Study of Cu-Pd Bimetallic Catalysts: Application of Factor Analysis. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 12565-12569		102
284	Redox-catalytic correlations in oxidised copper-ceria CO-PROX catalysts. <i>Catalysis Today</i> , 2009 , 143, 211-217	3.1	101
283	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-y} . <i>Journal of Chemical Physics</i> , 2003 , 119, 5659-5669	3.9	101
282	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, 5434-44	3.9	100
281	Ag promotion of TiO ₂ -anatase disinfection capability: Study of Escherichia coli inactivation. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 87-93	21.8	99
280	Metal-promoter interface in Pd/(Ce,Zr) _x O _y /Al ₂ O ₃ catalysts: effect of thermal aging. <i>Journal of Catalysis</i> , 2004 , 221, 148-161	7.3	99
279	Preferential oxidation of CO in a H ₂ -rich stream over CuO/CeO ₂ and CuO/(Ce,M) _x O _y (M=Zr, Tb) catalysts. <i>Journal of Power Sources</i> , 2005 , 151, 32-42	8.9	99
278	Self-Sterilized EVOH-TiO ₂ Nanocomposites: Interface Effects on Biocidal Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 1949-1960	15.6	98
277	Mechanochemistry: Toward Sustainable Design of Advanced Nanomaterials for Electrochemical Energy Storage and Catalytic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9530-9544	8.3	97
276	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	21.8	96
275	Alloy Formation and Stability in Pd _{1-x} Cu _x Bimetallic Catalysts. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16247-16254		92

274	High-performance Er ₃ +TiO ₂ system: Dual up-conversion and electronic role of the lanthanide. <i>Journal of Catalysis</i> , 2013 , 299, 298-306	7.3	90
273	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	21.8	90
272	Hard X-ray photon-in photon-out spectroscopy. <i>Catalysis Today</i> , 2009 , 145, 294-299	5.3	88
271	High activity of Ce(1-x)Ni(x)O(2-y) for H ₂ production through ethanol steam reforming: tuning catalytic performance through metal-oxide interactions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9680-4	16.4	88
270	Influence of Ceria on the Dispersion and Reduction/Oxidation Behaviour of Alumina-Supported Copper Catalysts. <i>Journal of Catalysis</i> , 1997 , 172, 146-159	7.3	88
269	Confinement effects in quasi-stoichiometric CeO ₂ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 3524-3529	3.6	87
268	On modelling the interaction of CO on the MgO(100) surface. <i>Surface Science</i> , 1995 , 327, 59-73	1.8	87
267	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. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4540-1	16.4	82
266	Nanostructured Ti-W mixed-metal oxides: structural and electronic properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6075-83	3.4	81
265	Halloysite/TiO ₂ nanocomposites: Synthesis, characterization and photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013 , 132-133, 416-422	21.8	80
264	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. <i>Green Chemistry</i> , 2011 , 13, 2750	10	80
263	Photocatalytic behaviour of Bi ₂ MO ₆ polymetalates for rhodamine B degradation. <i>Catalysis Today</i> , 2009 , 143, 274-281	5.3	80
262	Selective Reduction of NO _x with Propene under Oxidative Conditions: Nature of the Active Sites on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2905-2914	16.4	79
261	Continuous flow transformations of glycerol to valuable products: an overview. <i>Sustainable Chemical Processes</i> , 2014 , 2,		78
260	Doping level effect on sunlight-driven W,N-co-doped TiO ₂ -anatase photo-catalysts for aromatic hydrocarbon partial oxidation. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 274-281	21.8	78
259	Influence of N-doping on the structure and electronic properties of titania nanoparticle photocatalysts. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16482-6	3.4	76
258	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	7.3	76
257	Effect of g-C ₃ N ₄ loading on TiO ₂ -based photocatalysts: UV and visible degradation of toluene. <i>Catalysis Science and Technology</i> , 2014 , 4, 2006	5.5	75

256	Anatase-TiO ₂ nanomaterials: analysis of key parameters controlling crystallization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13604-12	16.4	75
255	Structural, Morphological, and Oxygen Handling Properties of Nanosized Cerium/Terbium Mixed Oxides Prepared by Microemulsion. <i>Chemistry of Materials</i> , 2003 , 15, 4309-4316	9.6	75
254	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	7.3	73
253	Boosting TiO ₂ -anatase antimicrobial activity: Polymer-oxide thin films. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 441-447	21.8	72
252	Nitrogen-containing TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2006 , 65, 301-308	21.8	71
251	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	7.3	70
250	Thermo-Photocatalysis: Environmental and Energy Applications. <i>ChemSusChem</i> , 2019 , 12, 2098-2116	8.3	69
249	EPR study on oxygen handling properties of ceria, zirconia and Zr/Ce (1 : 1) mixed oxide samples. <i>Catalysis Letters</i> , 2000 , 65, 197-204	2.8	67
248	Interaction of CO and NO with PdCu(111) Surfaces. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 8017-8023	3.4	67
247	UV and visible light optimization of anatase TiO ₂ antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 680-690	21.8	66
246	N- and/or W-(co)doped TiO ₂ -anatase catalysts: Effect of the calcination treatment on photoactivity. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 238-244	21.8	66
245	Enhancing photocatalytic performance of TiO ₂ in H ₂ evolution via Ru co-catalyst deposition. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 434-443	21.8	65
244	Resonant X-ray spectroscopy to study K absorption pre-edges in 3d transition metal compounds. <i>European Physical Journal: Special Topics</i> , 2009 , 169, 207-214	2.3	65
243	Catalytic hydrogen production through WGS or steam reforming of alcohols over Cu, Ni and Co catalysts. <i>Applied Catalysis A: General</i> , 2016 , 518, 2-17	5.1	64
242	Cu/TiO ₂ systems for the photocatalytic H ₂ production: Influence of structural and surface support features. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 468-478	21.8	64
241	Unraveling the Active Site in Copper/Teria Systems for the Water/Gas Shift Reaction: In Situ Characterization of an Inverse Powder CeO ₂ /CuO/Cu Catalyst. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3580-3587	3.8	64
240	Environmental Catalysis: Present and Future. <i>ChemCatChem</i> , 2019 , 11, 18-38	5.2	61
239	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. <i>Green Chemistry</i> , 2013 , 15, 2786	10	58

238	Behavior of Palladium-Copper Catalysts for CO and NO Elimination. <i>Journal of Catalysis</i> , 2000 , 190, 387-395	9.6	58
237	Influence of Structural and Surface Characteristics of Ti _{1-x} Zr _x O ₂ Nanoparticles on the Photocatalytic Degradation of Methylcyclohexane in the Gas Phase. <i>Chemistry of Materials</i> , 2007 , 19, 4283-4291	9.6	57
236	Cerium-Berbium mixed oxides as potential materials for anodes in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2005 , 151, 43-51	8.9	57
235	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. <i>Chemical Society Reviews</i> , 2019 , 48, 637-682	58.5	56
234	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9182-9190	3.8	56
233	Nanosized Ti _{IV} mixed oxides: Effect of doping level in the photo-catalytic degradation of toluene using sunlight-type excitation. <i>Applied Catalysis B: Environmental</i> , 2007 , 74, 26-33	21.8	56
232	Evolution of H ₂ photoproduction with Cu content on CuO -TiO ₂ composite catalysts prepared by a microemulsion method. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 214-222	21.8	55
231	Biodegradable polycaprolactone-titania nanocomposites: preparation, characterization and antimicrobial properties. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9249-66	6.3	55
230	Promotion of CeO ₂ /TiO ₂ photoactivity by g-C ₃ N ₄ : Ultraviolet and visible light elimination of toluene. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 261-270	21.8	54
229	Morphological and Structural Changes during the Reduction and Reoxidation of CuO/CeO ₂ and Ce _{1-x} Cu _x O ₂ Nanocatalysts: In Situ Studies with Environmental TEM, XRD, and XAS. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13851-13859	3.8	54
228	Photoformed electron transfer from TiO ₂ to metal clusters. <i>Catalysis Communications</i> , 2008 , 9, 1991-1995	9.2	54
227	Measuring and interpreting quantum efficiency for hydrogen photo-production using Pt-titania catalysts. <i>Journal of Catalysis</i> , 2017 , 347, 157-169	7.3	53
226	Sunlight-driven toluene photo-elimination using CeO ₂ -TiO ₂ composite systems: A kinetic study. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 626-635	21.8	53
225	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	7.3	53
224	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. <i>Journal of Catalysis</i> , 2015 , 330, 154-166	7.3	52
223	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	7.3	52
222	Bimetallic Pt-Pd co-catalyst Nb-doped TiO ₂ materials for H ₂ photo-production under UV and Visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 533-545	21.8	51
221	Acetaldehyde degradation under UV and visible irradiation using CeO ₂ /TiO ₂ composite systems: Evaluation of the photocatalytic efficiencies. <i>Chemical Engineering Journal</i> , 2014 , 255, 297-306	14.7	50

220	Light-off behaviour of PdO/Al ₂ O ₃ catalysts for stoichiometric CO and CO ₂ /NO reactions: a combined catalytic activity in situ DRIFTS study. <i>Journal of Catalysis</i> , 2004 , 221, 85-92	7.3	50
219	Composite Bi ₂ O ₃ /TiO ₂ catalysts for toluene photo-degradation: Ultraviolet and visible light performances. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 307-313	21.8	49
218	Ce _{1-x} Zr _x O ₂ Ternary Mixed Oxides: Structural Characteristics and Oxygen Handling Properties. <i>Journal of Catalysis</i> , 2002 , 211, 326-334	7.3	49
217	Influence of sulfur on the structural, surface properties and photocatalytic activity of sulfated TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 633-641	21.8	47
216	Study of the Heterometallic Bond Nature in PdCu(111) Surfaces. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 141-147	3.4	47
215	Characterization of Active Sites/Entities and Redox/Catalytic Correlations in Copper-Ceria-Based Catalysts for Preferential Oxidation of CO in H ₂ -Rich Streams. <i>Catalysts</i> , 2013 , 3, 378-400	4	46
214	Operando DRIFTS and XANES Study of Deactivating Effect of CO ₂ on a Ce _{0.8} Cu _{0.2} O ₂ CO-PROX Catalyst. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18576-18582	3.8	46
213	Tracking Down the Reduction Behavior of Copper-on-Alumina Catalysts. <i>Journal of Catalysis</i> , 1998 , 178, 253-263	7.3	46
212	The effect of Ni in Pd _{1-x} Ni _x /(Ce,Zr)O _x /Al ₂ O ₃ catalysts used for stoichiometric CO and NO elimination. Part 2: Catalytic activity and in situ spectroscopic studies. <i>Journal of Catalysis</i> , 2005 , 235, 262-271	7.3	45
211	Evaluation of the Role of the Metal/Support Interfacial Centers in the Dry Reforming of Methane on Alumina-Supported Rhodium Catalysts. <i>Journal of Catalysis</i> , 2000 , 190, 296-308	7.3	45
210	Phase-Contact Engineering in Mono- and Bimetallic Cu-Ni Co-catalysts for Hydrogen Photocatalytic Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1199-1203	16.4	44
209	W,N-Codoped TiO ₂ -Anatase: A Sunlight-Operated Catalyst for Efficient and Selective Aromatic Hydrocarbons Photo-Oxidation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8553-8555	3.8	44
208	Physical and chemical properties of Ce _{1-x} Zr _x O ₂ nanoparticles and Ce _{1-x} Zr _x O ₂ (1 1 1) surfaces: synchrotron-based studies. <i>Journal of Molecular Catalysis A</i> , 2005 , 228, 11-19		44
207	Surface and Bulk Characterisation of Metallic Phases Present during CO Hydrogenation over Pd _{1-x} Cu _x /KL Zeolite Catalysts. <i>Journal of Catalysis</i> , 1996 , 164, 477-483	7.3	44
206	Ca Doping of Nanosize Ce _{1-x} Zr _x O ₂ and Ce _{1-x} La _x O ₂ Solid Solutions: Structural and Electronic Effects. <i>Chemistry of Materials</i> , 2005 , 17, 4181-4193	9.6	42
205	Role of Pt in Pt/Ba/Al ₂ O ₃ NO _x storage and reduction traps. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4418-4427	3.6	42
204	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	3.6	42
203	Spectroscopic Characterization of Heterogeneity and Redox Effects in Zirconium/Cerium (1:1) Mixed Oxides Prepared by Microemulsion Methods. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2667-2674	7.4	41

202	Water-Gas Shift Reaction on NiWTe Catalysts: Catalytic Activity and Structural Characterization. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2528-2538	3.8	40
201	Behavior of bimetallic Pd ₂ Cr/Al ₂ O ₃ and Pd ₂ Cr/(Ce,Zr)O _x /Al ₂ O ₃ catalysts for CO and NO elimination. <i>Journal of Catalysis</i> , 2003 , 214, 220-233	7.3	40
200	Composite H ₃ PW ₁₂ O ₄₀ /TiO ₂ catalysts for toluene selective photo-oxidation. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 100-109	21.8	40
199	Influence of Sn ⁴⁺ on the structural and electronic properties of Ti _{1-x} Sn _x O ₂ nanoparticles used as photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 2421-30	3.6	39
198	The effect of Ni in Pd ₂ Ni/(Ce,Zr)O/Al ₂ O ₃ catalysts used for stoichiometric CO and NO elimination. Part 1: Nanoscopic characterization of the catalysts. <i>Journal of Catalysis</i> , 2005 , 235, 251-261	7.3	39
197	Photoactivity and charge trapping sites in copper and vanadium doped anatase TiO ₂ nano-materials. <i>Catalysis Science and Technology</i> , 2016 , 6, 1094-1105	5.5	38
196	Superior performance of NiWTe mixed-metal oxide catalysts for ethanol steam reforming: Synergistic effects of W- and Ni-dopants. <i>Journal of Catalysis</i> , 2015 , 321, 90-99	7.3	38
195	Effect of exfoliation and surface deposition of MnO _x species in g-C ₃ N ₄ : Toluene photo-degradation under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 663-672	21.8	38
194	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, 4484-9	16.4	38
193	Tailoring polymer/TiO ₂ film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 346-352	21.8	38
192	IronSulfur codoped TiO ₂ anatase nano-materials: UV and sunlight activity for toluene degradation. <i>Applied Catalysis B: Environmental</i> , 2012 , 117-118, 310-316	21.8	37
191	ChromiumBaponite clay catalysts: Preparation, characterization and catalytic performance in propene oxidation. <i>Applied Catalysis A: General</i> , 2007 , 327, 1-12	5.1	37
190	Mechanochemical Synthesis of TiO ₂ /Nanocomposites as Photocatalysts for Benzyl Alcohol Photo-Oxidation. <i>Nanomaterials</i> , 2016 , 6,	5.4	37
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