

Antoine Aboukais

List of Publications by Year in descending order

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79
papers

2,795
citations

147801

31
h-index

182427

51
g-index

79
all docs

79
docs citations

79
times ranked

3372
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of ceria under an oxidizing atmosphere. Thermal analysis, XPS, and EPR study. <i>Chemistry of Materials</i> , 1993, 5, 793-797.	6.7	210
2	Ambient particulate matter (PM2.5): Physicochemical characterization and metabolic activation of the organic fraction in human lung epithelial cells (A549). <i>Environmental Research</i> , 2007, 105, 212-223.	7.5	138
3	Activation of different pathways of apoptosis by air pollution particulate matter (PM2.5) in human epithelial lung cells (L132) in culture. <i>Toxicology</i> , 2006, 225, 12-24.	4.2	137
4	Dunkerque City air pollution particulate matter-induced cytotoxicity, oxidative stress and inflammation in human epithelial lung cells (L132) in culture. <i>Toxicology in Vitro</i> , 2006, 20, 519-528.	2.4	116
5	Effect of incorporation of copper or nickel on hydrogen storage in ceria. Mechanism of reduction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2001-2009.	1.7	102
6	Simultaneous oxidation of carbon black and volatile organic compounds over Ru/CeO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 249-256.	20.2	89
7	Transformation of tetragonal zirconia phase to monoclinic phase in the presence of Fe ³⁺ ions as probes: an EPR study. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4975-4980.	2.8	85
8	Role of nuclear factor-kappa B activation in the adverse effects induced by air pollution particulate matter (PM2.5) in human epithelial lung cells (L132) in culture. <i>Journal of Applied Toxicology</i> , 2007, 27, 284-290.	2.8	84
9	Catalytic Removal of Toluene in Air over Co-Mn-Al Nano-oxides Synthesized by Hydrotalcite Route. <i>Catalysis Letters</i> , 2007, 118, 165-172.	2.6	83
10	Pro-inflammatory effects of Dunkerque city air pollution particulate matter 2.5 in human epithelial lung cells (L132) in culture. <i>Journal of Applied Toxicology</i> , 2005, 25, 166-175.	2.8	79
11	Highly resolved electron paramagnetic resonance spectrum of copper(II) ion pairs in CuCe oxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 615-620.	1.7	78
12	Co-Mg-Al Hydrotalcite Precursors for Catalytic Total Oxidation of Volatile Organic Compounds. <i>Topics in Catalysis</i> , 2009, 52, 482-491.	2.8	72
13	Dry reforming of methane in the presence of ruthenium-based catalysts. <i>Comptes Rendus Chimie</i> , 2009, 12, 748-753.	0.5	70
14	Evidence for different copper species in precursors of copper-cerium oxide catalysts for hydrogenation reactions. An X-ray diffraction, EPR and X-ray photoelectron spectroscopy study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 131-136.	1.7	68
15	Physicochemical characterization and catalytic performance of 10% Ag/CeO ₂ catalysts prepared by impregnation and deposition-precipitation. <i>Journal of Catalysis</i> , 2014, 320, 137-146.	6.2	68
16	A comparative study of Cu, Ag and Au doped CeO ₂ in the total oxidation of volatile organic compounds (VOCs). <i>Materials Chemistry and Physics</i> , 2016, 177, 570-576.	4.0	64
17	Hydrogen production by methane steam reforming over Ru supported on Ni-Mg-Al mixed oxides prepared via hydrotalcite route. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1269-1277.	7.1	60
18	Biodiesel production from refined sunflower oil over Co-Mg-Al catalysts: Effect of the composition and the thermal treatment. <i>Renewable Energy</i> , 2020, 146, 1242-1248.	8.9	59

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19	Electron Paramagnetic Resonance in Combination with the Thermal Analysis, X-ray Diffraction, and Raman Spectroscopy to Follow the Structural Properties of $Zr_xCe_{1-x}O_2$ Solid Systems and Precursors. <i>Chemistry of Materials</i> , 2000, 12, 3830-3835.	6.7	54
20	Transition-metal ion dimers formed in CeO_2 : an EPR study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 99-104.	1.7	53
21	Syngas production by the CO_2 reforming of CH_4 over $Ni-Co-Mg-Al$ catalysts obtained from hydrotalcite precursors. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12818-12828.	7.1	52
22	Ni based catalysts promoted with cerium used in the steam reforming of toluene for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12829-12840.	7.1	47
23	Reactivity of Ru-based catalysts in the oxidation of propene and carbon black. <i>Catalysis Today</i> , 2007, 119, 273-277.	4.4	41
24	CO_2 reforming of CH_4 over $Co-Mg-Al$ mixed oxides prepared via hydrotalcite like precursors. <i>Catalysis Today</i> , 2011, 176, 139-143.	4.4	40
25	Redox behaviour of copper(II) species on CuCe oxide catalysts: electron paramagnetic resonance (EPR) study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 115, 171-177.	4.7	38
26	DNA modification by oxovanadium(IV) complexes of salen derivatives. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 345-353.	2.6	37
27	Carbon black oxidation in the presence of Al_2O_3 , CeO_2 , and Mn oxide catalysts: An EPR study. <i>Catalysis Today</i> , 2007, 119, 286-290.	4.4	37
28	$Co-Mg-Al$ oxides issued of hydrotalcite precursors for total oxidation of volatile organic compounds. Identification and toxicological impact of the by-products. <i>Comptes Rendus Chimie</i> , 2010, 13, 494-501.	0.5	37
29	Cu/Zn-based catalysts for H_2 production via steam reforming of methanol. <i>Catalysis Today</i> , 2011, 176, 88-92.	4.4	37
30	Effect of La promotion on Ni/Mg-Al hydrotalcite derived catalysts for glycerol steam reforming. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104228.	6.7	36
31	Effects of cerium and lanthanum on Ni-based catalysts for CO_2 reforming of toluene. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4743-4754.	6.7	34
32	A highly reactive and stable Ru/ $Co_6 \times Mg \times Al_2$ catalyst for hydrogen production via methane steam reforming. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10101-10107.	7.1	32
33	Carbon black and propylene oxidation over Ru/Ce $Zr_{1-x}O_2$ catalysts. <i>Catalysis Communications</i> , 2011, 12, 776-780.	3.3	30
34	Zirconia supported nickel catalysts for glycerol steam reforming: Effect of zirconia structure on the catalytic performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4457-4467.	7.1	30
35	EPR study of ceria-silica and ceria-alumina catalysts: Localization of superoxide radical anions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 260, 199-207.	4.7	29
36	Oxidative dehydrogenation of isobutyric acid on $H_4PVMo_{11}O_{40}$, $NaxH_{4-x}PVMo_{11}O_{40}$ and $CUyH_{4-2y}PVMo_{11}O_{40}$ heteropolyacid catalysts supported on silica. <i>Applied Catalysis A: General</i> , 1994, 111, 109-118.	4.3	28

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37	Glycerol steam reforming over Ru-Mg-Al hydrotalcite-derived mixed oxides: Role of the preparation method in catalytic activity. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19864-19872.	7.1	27
38	A comparative study on the effect of Zn addition to Cu/Ce and Cu/Ce-Al catalysts in the steam reforming of methanol. <i>Applied Catalysis A: General</i> , 2014, 471, 84-90.	4.3	26
39	Microwave frequency behavior of the EPR copper(II) ion pairs spectrum formed in CuCe oxide. <i>Chemistry of Materials</i> , 1992, 4, 977-979.	6.7	23
40	Formation of oligonuclear complexes between copper(II) and 1-hydroxyethane-1,1-diphosphonic acid. <i>Inorganica Chimica Acta</i> , 2004, 357, 305-310.	2.4	22
41	Supported manganese oxide on TiO ₂ for total oxidation of toluene and polycyclic aromatic hydrocarbons (PAHs): Characterization and catalytic activity. <i>Materials Chemistry and Physics</i> , 2013, 142, 564-571.	4.0	21
42	Steam reforming of methanol over ruthenium impregnated ceria, alumina and ceria-alumina catalysts. <i>International Journal of Energy Research</i> , 2016, 40, 1287-1292.	4.5	21
43	EPR Investigation and Reactivity of Diesel Soot Activated (or not) with Cerium Compounds. <i>Topics in Catalysis</i> , 2001, 16/17, 263-268.	2.8	20
44	Propene oxidation and NO reduction over MgCu-Al(Fe) mixed oxides derived from hydrotalcite-like compounds. <i>Catalysis Today</i> , 2015, 257, 98-103.	4.4	19
45	Thermal analysis and temperature-programmed reduction studies of copper-zirconium and copper-zirconium-yttrium compounds. <i>Thermochimica Acta</i> , 2005, 427, 193-200.	2.7	17
46	Thermal behaviour and catalytic properties towards propene combustion of zirconia modified by different first row transition metals. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 81, 20-26.	5.5	16
47	EPR study of copper(II) complexes of hydroxysalen derivatives in order to be used in the DNA cleavage. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007, 86, 272-278.	3.8	15
48	Physico-chemical study of impregnated Cu and V species on CeO ₂ support by thermal analysis, XRD, EPR, 51V-MAS-NMR and XPS. <i>Journal of Materials Science</i> , 2007, 42, 6188-6196.	3.7	15
49	Steam reforming of ethanol for hydrogen production over Cu/Co-Mg-Al-based catalysts prepared by hydrotalcite route. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9907-9913.	5.3	15
50	Investigation of the effect of support thermal treatment on gold-based catalysts' activity towards propene total oxidation. <i>Comptes Rendus Chimie</i> , 2009, 12, 772-778.	0.5	13
51	Influence of the presence of ruthenium on the activity and stability of Co-Mg-Al-based catalysts in CO ₂ reforming of methane for syngas production. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22744-22760.	5.3	13
52	Investigation of Au/hydrotalcite catalysts for toluene total oxidation. <i>Catalysis Today</i> , 2011, 176, 116-119.	4.4	12
53	The effect of copper content on the reactivity of Cu/Co ₆ Al ₂ solids in the catalytic steam reforming of methane reaction. <i>Comptes Rendus Chimie</i> , 2014, 17, 454-458.	0.5	12
54	Evaluation of a Catalyst Durability in Absence and Presence of Toluene Impurity: Case of the Material Co ₂ Ni ₂ Mg ₂ Al ₂ Mixed Oxide Prepared by Hydrotalcite Route in Methane Dry Reforming to Produce Energy. <i>Materials</i> , 2019, 12, 1362.	2.9	12

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55	EPR of vanadium in Ce _{0.25} H ₃ PVMO _{1.1} O ₄ catalyst. Formation of vanadyl dimers during the oxidative dehydrogenation of isobutyric acid. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1025-1029.	1.7	11
56	EPR investigation of the nature of oxygen species present on the surface of gold impregnated cerium oxide. Materials Chemistry and Physics, 2016, 170, 285-293.	4.0	11
57	Physicochemical characterization of Au/CeO ₂ solid. Part 1: The deposition "precipitation preparation method. Materials Chemistry and Physics, 2012, 137, 34-41.	4.0	9
58	Detection of adsorbed O ₂ ^{•-} species on CeO ₂ solid impregnated with Ag ²⁺ ions during its thermal treatment under a H ₂ atmosphere, an EPR study. Physical Chemistry Chemical Physics, 2016, 18, 29381-29386.	2.8	9
59	Hydrogen Production by Methane Steam Reforming Over Ru and Cu Supported on Hydrotalcite Precursors. Advanced Materials Research, 0, 324, 453-456.	0.3	8
60	Physicochemical characterization of Au/CeO ₂ solids. Part 2: The impregnation preparation method. Materials Chemistry and Physics, 2012, 137, 42-47.	4.0	8
61	Title is missing!. Catalysis Letters, 1999, 62, 45-48.	2.6	6
62	VOCs and carbonaceous particles removal assisted by NO _x on alkali _{0.15} /ZrO ₂ and Cs _x "M _{0.1} /ZrO ₂ catalysts (M = Cu or Co). Comptes Rendus Chimie, 2010, 13, 515-526.	0.5	6
63	Catalytic Oxidation of Propylene, Toluene, Carbon Monoxide, and Carbon Black over Au/CeO ₂ Solids: Comparing the Impregnation and the Deposition-Precipitation Methods. Scientific World Journal, The, 2013, 2013, 1-6.	2.1	6
64	Physico-chemical investigation of catalytic oxidation sites in 4%Rh/CeO ₂ catalysts prepared by impregnation and deposition "precipitation methods. Chemical Physics, 2019, 527, 110472.	1.9	6
65	Carbon black and propylene oxidation over Ru/CoxMgyAl ₂ O _z catalysts. Comptes Rendus Chimie, 2013, 16, 868-871.	0.5	5
66	ESR Investigation of Active Sites in Ru/CeO ₂ Solids. Catalysis Letters, 2016, 146, 677-681.	2.6	5
67	Correlation between the size and the magnetic properties of Ag ²⁺ clusters loaded on ceria surface and their catalytic performance in the total oxidation of propylene. EPR study. Chemical Physics, 2018, 502, 1-5.	1.9	5
68	Evolution of the EPR copper(II) dimer spectrum observed in CuCe oxide with the applied microwave frequency: a computer-assisted study. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3299-3301.	1.7	4
69	Copper(II) and oxovanadium(IV) complexes of d-3-phosphoglyceric acid. Journal of Inorganic Biochemistry, 2001, 85, 245-251.	3.5	4
70	Catalytic Oxidation of Carbon Black Over Ru/CoxMgyAl ₂ Catalysts. Physics Procedia, 2011, 21, 1-5.	1.2	4
71	Preparation and characterization of Ni-Co-Mg-Al mixed oxides derived from layered double hydroxides and their performance in the dry reforming of methane. , 2016, , .		3
72	H ₂ production by dry reforming of biogas over Ni-Co-Mg-Al mixed oxides prepared via hydrotalcite route. , 2016, , .		3

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73	Adsorption of probe molecules to investigate by EPR the redox properties of silver loaded on ceria. Chemical Physics, 2019, 517, 131-137.	1.9	3
74	The Performance of the Cu-Zn/CeO ₂ Catalysts in the Steam Reforming of Methanol Reaction. Advanced Materials Research, 2011, 324, 157-161.	0.3	2
75	Inorganic Chemical Composition of Atmospheric Particulate Matter around Industrial Sites in Northern Lebanon. Advanced Materials Research, 0, 324, 477-480.	0.3	2
76	Production of hydrogen by steam reforming of methanol in the presence of copper/zinc-aluminium based catalysts prepared by adopting memory effect of hydrotalcite. , 2014, , .		1
77	Steam reforming of toluene for hydrogen production over NiMgAlCe catalysts prepared via hydrotalcite route. , 2016, , .		1
78	Dry reforming of methane over Ni _x Mg _{6-x} Al _{1.8} La _{0.2} catalysts. , 2016, , .		0
79	EPR simulation to confirm the formation of Ag ₆ O ₅ complex on the surface of 10% Ag/CeO ₂ catalyst after the propylene oxidation reaction. Chemical Physics Letters, 2018, 703, 94-96.	2.6	0