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List of Publications by Year
in descending order

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67	2,573	27	48
papers	citations	h-index	g-index
		201385	205818

70	70	70	3162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Some contributions of electron microscopy to the characterisation of the strong metalâ€“support interaction effect. Catalysis Today, 2003, 77, 385-406.	2.2	181
2	Reduction of High Surface Area CeO2â^'ZrO2Mixed Oxides. Journal of Physical Chemistry B, 2000, 104, 9186-9194.	1.2	150
3	Hydrogen chemisorption on ceria: influence of the oxide surface area and degree of reduction. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3499.	1.7	138
4	Effects of the Nature of the Reducing Agent on the Transient Redox Behavior of NM/Ce0.68Zr0.32O2 (NM=Pt, Pd, and Rh). Journal of Catalysis, 2001, 200, 181-193.	3.1	107
5	Direct and indirect effects of silver nanoparticles on freshwater and marine microalgae (Chlamydomonas reinhardtii and Phaeodactylum tricornutum). Chemosphere, 2017, 179, 279-289.	4.2	96
6	Toxicity of TiO2, in nanoparticle or bulk form to freshwater and marine microalgae under visible light and UV-A radiation. Environmental Pollution, 2017, 227, 39-48.	3.7	91
7	Extension of preparation methods employed with ceramic materials to carbon honeycomb monoliths. Carbon, 2004, 42, 3251-3254.	5.4	90
8	Stabilisation of nanostructured Ce0.2Zr0.8O2 solid solution by impregnation on Al2O3: a suitable method for the production of thermally stable oxygen storage/release promoters for three-way catalysts. Chemical Communications, 2000, , 2167-2168.	2.2	87
9	Characterization of the Metal Phase in NM/Ce0.68Zr0.32O2 (NM:â€‰ Pt and Pd) Catalysts by Hydrogen Chemisorption and HRTEM Microscopy:â€‰ A Comparative Study. Journal of Physical Chemistry B, 2001, 105, 1191-1199.	1.2	85
10	Rhodium Dispersion in a Rh/Ce0.68Zr0.32O2 Catalyst Investigated by HRTEM and H2 Chemisorption. Journal of Physical Chemistry B, 2000, 104, 4667-4672.	1.2	79
11	Thermal Stabilization of CexZr1-xO2Oxygen Storage Promoters by Addition of Al2O3:Â Effect of Thermal Aging on Textural, Structural, and Morphological Properties. Chemistry of Materials, 2004, 16, 4273-4285.	3.2	78
12	A novel CoOx/La-modified-CeO2 formulation for powdered and washcoated onto cordierite honeycomb catalysts with application in VOCs oxidation. Applied Catalysis B: Environmental, 2014, 144, 425-434.	10.8	67
13	Homoagglomeration and heteroagglomeration of TiO 2 , in nanoparticle and bulk form, onto freshwater and marine microalgae. Science of the Total Environment, 2017, 592, 403-411.	3.9	56
14	CeO 2 NPs, toxic or protective to phytoplankton? Charge of nanoparticles and cell wall as factors which cause changes in cell complexity. Science of the Total Environment, 2017, 590-591, 304-315.	3.9	54
15	Original carbon-based honeycomb monoliths as support of Cu or Mn catalysts for low-temperature SCR of NO: Effects of preparation variables. Applied Catalysis A: General, 2008, 342, 150-158.	2.2	49
16	Effect of Mild Re-oxidation Treatments with CO2 on the Chemisorption Capability of a Pt/CeO2 Catalyst Reduced at 500Â°C. Journal of Catalysis, 2001, 200, 411-415.	3.1	48
17	Au-TiO2/SiO2 photocatalysts with NOx depolluting activity: Influence of gold particle size and loading. Chemical Engineering Journal, 2019, 368, 417-427.	6.6	48
18	DoE (Design of Experiments) Assisted Allylic Hydroxylation of Enones Catalysed by a Copperâ€"Aluminium Mixed Oxide. European Journal of Organic Chemistry, 2013, 2013, 8307-8314.	1.2	47

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19	One-pot synthesis of Au/N-TiO2 photocatalysts for environmental applications: Enhancement of dyes and NOx photodegradation. Powder Technology, 2019, 355, 793-807.	2.1	45
20	Non-cordierite clay-based structured materials for environmental applications. Journal of Hazardous Materials, 2010, 181, 9-18.	6.5	42
21	Lead removal from aqueous solution by means of integral natural clays honeycomb monoliths. Journal of Hazardous Materials, 2019, 365, 519-530.	6.5	41
22	TAP study of toluene total oxidation over a Co₃O₄/La-CeO₂ catalyst with an application as a washcoat of cordierite honeycomb monoliths. Physical Chemistry Chemical Physics, 2014, 16, 11447-11455.	1.3	40
23	Insights on the combustion mechanism of ethanol and n-hexane in honeycomb monolithic type catalysts: Influence of the amount and nature of Mn-Cu mixed oxide. Fuel, 2017, 208, 637-646.	3.4	39
24	Cytotoxicity of CeO2 nanoparticles using in vitro assay with Mytilus galloprovincialis hemocytes: Relevance of zeta potential, shape and biocorona formation. Aquatic Toxicology, 2018, 200, 13-20.	1.9	39
25	Influence of the nature of the metal precursor salt on the redox behaviour of ceria in Rh/CeO2 catalysts. Studies in Surface Science and Catalysis, 1995, 96, 419-429.	1.5	34
26	XPS analysis and microstructural characterization of a Ce/Tb mixed oxide supported on a lanthana-modified transition alumina. , 1999, 27, 941-949.		33
27	Monolithic honeycomb design applied to carbon materials for catalytic methane decomposition. Applied Catalysis A: General, 2013, 458, 21-27.	2.2	32
28	Au-TiO2/SiO2 photocatalysts for building materials: Self-cleaning and de-polluting performance. Building and Environment, 2019, 164, 106347.	3.0	31
29	Role of the Wild Carob as Biosorbent and as Precursor of a New High-Surface-Area Activated Carbon for the Adsorption of Methylene Blue. Arabian Journal for Science and Engineering, 2021, 46, 325-341.	1.7	31
30	Title is missing!. Catalysis Letters, 2001, 76, 131-137.	1.4	27
31	Originally prepared carbon-based honeycomb monoliths with potential application asÂVOCs adsorbents. Comptes Rendus Chimie, 2006, 9, 1215-1220.	0.2	27
32	Use of Au/N-TiO2/SiO2 photocatalysts in building materials with NO depolluting activity. Journal of Cleaner Production, 2020, 243, 118633.	4.6	27
33	Investigation by Means of H2 Adsorption, Diffraction, and Electron Microscopy Techniques of a Cerium/Terbium Mixed Oxide Supported on a Lanthana-Modified Alumina. Chemistry of Materials, 2002, 14, 844-850.	3.2	26
34	Comparative study of the catalytic performance and final surface structure of Co3O4/La-CeO2 washcoated ceramic and metallic honeycomb monoliths. Catalysis Today, 2015, 253, 190-198.	2.2	26
35	CHEMICAL AND NANOSTRUCTURAL ASPECTS OF THE PREPARATION AND CHARACTERISATION OF CERIA AND CERIA-BASED MIXED OXIDE-SUPPORTED METAL CATALYSTS. Catalytic Science Series, 2002, , 85-168.	0.6	25
36	Easy route to activate clay honeycomb monoliths for environmental applications. Applied Clay Science, 2010, 47, 392-399.	2.6	24

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37	Use of pillared clays in the preparation of washcoated clay honeycomb monoliths as support of manganese catalysts for the total oxidation of VOCs. Catalysis Today, 2017, 296, 84-94.	2.2	24
38	Integration of Adsorption and Photocatalytic Degradation of Methylene Blue Using $$hbox {TiO}_{2}$$ TiO 2 Supported on Granular Activated Carbon. Arabian Journal for Science and Engineering, 2017, 42, 1475-1486.	1.7	24
39	Easy extrusion of honeycomb-shaped monoliths using Moroccan natural clays and investigation of their dynamic adsorptive behavior towards VOCs. Journal of Hazardous Materials, 2009, 170, 87-95.	6.5	23
40	Low temperature prepared copper-iron mixed oxides for the selective CO oxidation in the presence of hydrogen. Applied Catalysis A: General, 2018, 552, 58-69.	2.2	23
41	Physicochemical characterization and adsorptive properties of some Moroccan clay minerals extruded as lab-scale monoliths. Applied Clay Science, 2007, 36, 287-296.	2.6	22
42	A comparative study of Bi2WO6, CeO2, and TiO2 as catalysts for selective photo-oxidation of alcohols to carbonyl compounds. Applied Catalysis A: General, 2015, 505, 375-381.	2.2	22
43	Preferential oxidation of CO in the presence of excess of hydrogen on Ru/Al2O3 catalyst: Promoting effect of ceriaâ€“terbia mixed oxide. Journal of Catalysis, 2013, 299, 272-283.	3.1	21
44	Speciation-controlled incipient wetness impregnation: A rational synthetic approach to prepare sub-nanosized and highly active ceriaâ€“zirconia supported gold catalysts. Journal of Catalysis, 2014, 318, 119-127.	3.1	20
45	Unveiling the source of activity of carbon integral honeycomb monoliths in the catalytic methane decomposition reaction. Catalysis Today, 2015, 249, 86-93.	2.2	20
46	Adding value to natural clays as low-cost adsorbents of methylene blue in polluted water through honeycomb monoliths manufacture. SN Applied Sciences, 2019, 1, 1.	1.5	18
47	Study of the Structural Modifications Induced by Reducing Treatments on a Pd/Ce0.8Tb0.2O2-x/La2O3â^'Al2O3Catalyst by Means of X-ray Diffraction and Electron Microscopy Techniques. Chemistry of Materials, 2002, 14, 1405-1410.	3.2	17
48	Reactivation of aged model Pd/Ce0.68Zr0.32O2three-way catalyst by high temperature oxidising treatment. Chemical Communications, 2004, , 196-197.	2.2	17
49	Metal Sintering in Rh/Al2O3Catalysts Followed by HREM,1H NMR, and H2Chemisorption. Langmuir, 2001, 17, 2720-2726.	1.6	15
50	Clay honeycomb monoliths for water purification: Modulating methylene blue adsorption through controlled activation via natural coal templating. Applied Surface Science, 2013, 277, 242-248.	3.1	14
51	Changing the adsorption capacity of coal-based honeycomb monoliths for pollutant removal from liquid streams by controlling their porosity. Applied Surface Science, 2010, 256, 7111-7117.	3.1	13
52	Simultaneous water gas shift and methanation reactions on Ru/Ce0.8Tb0.2O2â^'x based catalysts. Catalysis Today, 2012, 180, 42-50.	2.2	13
53	Combined (S)TEM-FIB Insight into the Influence of the Preparation Method on the Final Surface Structure of a Co₃O₄/La-Modified-CeO₂ Washcoated Monolithic Catalyst. Journal of Physical Chemistry C, 2013, 117, 13028-13036.	1.5	13
54	Experimental evidences of the relationship between reducibility and micro- and nanostructure in commercial high surface area ceria. Applied Catalysis A: General, 2014, 479, 35-44.	2.2	13

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55	Acyloxylation of 1,4-Dioxanes and 1,4-Dithianes Catalyzed by a Copperâ€“Iron Mixed Oxide. Journal of Organic Chemistry, 2015, 80, 6814-6821.	1.7	13
56	Clay honeycomb monoliths as low cost CO2 adsorbents. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 415-423.	2.7	13
57	Oxygen storage capacity improvement using CeO2-ZrO2 mixed oxides in three way catalysts. Studies in Surface Science and Catalysis, 1999, , 257-262.	1.5	9
58	Steady-state isotopic transient kinetic analysis of the H2/D2 exchange reaction as a tool for characterising the metal phase in supported platinum catalysts. Applied Catalysis A: General, 2002, 232, 39-50.	2.2	9
59	Optimized preparation of washcoated clay honeycomb monoliths as support of manganese catalysts for acetone total combustion. Microporous and Mesoporous Materials, 2021, 310, 110651.	2.2	9
60	Honeycomb monolithic design to enhance the performance of Ni-based catalysts for dry reforming of methane. Catalysis Today, 2022, 383, 226-235.	2.2	8
61	Ultrathin Washcoat and Very Low Loading Monolithic Catalyst with Outstanding Activity and Stability in Dry Reforming of Methane. Nanomaterials, 2020, 10, 445.	1.9	8
62	Development of Acidity on Sol-Gel Prepared TiO₂-SiO₂ Catalysts. Materials Research Society Symposia Proceedings, 1994, 346, 685.	0.1	7
63	Carbon integral honeycomb monoliths as support of copper catalysts in the Kharaschâ€“Sosnovsky oxidation of cyclohexene. Chemical Engineering Journal, 2016, 290, 174-184.	6.6	7
64	Hydrogen scrambling over Rh/Ce0.68Zr0.32O2 and Rh/Al2O3 catalysts: Effects of support, metal precursor and redox aging. Physical Chemistry Chemical Physics, 2002, 4, 381-388.	1.3	6
65	Chemical Reactivity of Binary Rare Earth Oxides. , 2004, , 9-55.		3
66	Copper-iron mixed oxide supported onto cordierite honeycomb as a heterogeneous catalyst in the Kharasch-Sosnovsky oxidation of cyclohexene. Catalysis Today, 2021, , .	2.2	3
67	Clay honeycomb monoliths for the simultaneous retention of lead and cadmium in water. Environmental Technology and Innovation, 2022, 27, 102765.	3.0	3