

# Renaud Cousin

## List of Publications by Year in descending order

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78  
papers

2,243  
citations

218677

26  
h-index

233421

45  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2321  
citing authors

#	ARTICLE	IF	CITATIONS
1	NO reduction by CO under oxidative conditions over CoCuAl mixed oxides derived from hydrotalcite-like compounds: Effect of water. <i>Catalysis Today</i> , 2022, 384-386, 97-105.	4.4	8
2	Influence of Co/Fe molar ratio on hydrotalcite catalysts prepared with or without microwave. <i>Journal of Solid State Chemistry</i> , 2022, 309, 122943.	2.9	5
3	VOCs catalytic removal over hierarchical porous zeolite NaY supporting Pt or Pd nanoparticles. <i>Catalysis Today</i> , 2022, 405-406, 212-220.	4.4	17
4	Investigation of catalysts M/CeO <sub>2</sub> (M = Pt, Rh, or Pd) for purification of CO <sub>2</sub> derived from oxycombustion in the absence or presence of water. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12521-12532.	5.3	5
5	Evaluation of the performance of catalytic oxidation of VOCs by a mixed oxide at a semi-pilot scale. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 108-119.	1.7	2
6	Nanoporous CeO <sub>2</sub> -ZrO <sub>2</sub> Oxides for Oxidation of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2021, 4, 1786-1797.	5.0	13
7	Recent Advances in the Catalytic Treatment of Volatile Organic Compounds: A Review Based on the Mixture Effect. <i>Catalysts</i> , 2021, 11, 1218.	3.5	20
8	Activity, selectivity, and stability of vanadium catalysts in formaldehyde production from emission of volatile organic compounds. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 375-386.	5.8	10
9	CuAlCe Oxides Issued from Layered Double Hydroxide Precursors for Ethanol and Toluene Total Oxidation. <i>Catalysts</i> , 2020, 10, 870.	3.5	10
10	Effect of Precious Metals on NO Reduction by CO in Oxidative Conditions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3042.	2.5	5
11	Mixed Oxides Issued from Hydrotalcite Precursors for Toluene and CO Total Oxidation: Comparison of Preparation Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1130-1139.	0.9	5
12	Thermal, electrical and structural characterization of zinc phosphate glass matrix loaded with different volume fractions of the graphite particles. <i>Journal of Non-Crystalline Solids</i> , 2020, 536, 119989.	3.1	8
13	On the Activity and Selectivity of CoAl and CoAlCe Mixed Oxides in Formaldehyde Production from Pulp Mill Emissions. <i>Catalysts</i> , 2020, 10, 424.	3.5	4
14	Influence of CO addition on the toluene total oxidation over Co based mixed oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 247, 163-172.	20.2	49
15	In vitro toxicological evaluation of emissions from catalytic oxidation removal of industrial VOCs by air/liquid interface (ALI) exposure system in repeated mode. <i>Toxicology in Vitro</i> , 2019, 58, 110-117.	2.4	12
16	Effect of Microwave Irradiation Parameters on Co/Fe Hydrotalcite Nanocatalysts for the Total Oxidation of VOCs. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3218-3227.	2.0	4
17	Editorial: Special Issue "New Concepts in Oxidation Processes". <i>Catalysts</i> , 2019, 9, 878.	3.5	0
18	Effect of Ce Addition on MgAl Mixed Oxides for the Total Oxidation of CO and Toluene. <i>Topics in Catalysis</i> , 2019, 62, 397-402.	2.8	3

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19	Investigation of reaction mechanism and kinetic modelling for the toluene total oxidation in presence of CoAlCe catalyst. <i>Catalysis Today</i> , 2019, 333, 28-35.	4.4	30
20	Oscillatory Behavior of Pd-Au Catalysts in Toluene Total Oxidation. <i>Catalysts</i> , 2018, 8, 574.	3.5	9
21	Real-time monitoring of N <sub>2</sub> O production in a catalytic reaction process using mid-infrared quantum cascade laser. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 221, 1-7.	2.3	9
22	Ultraquick synthesis of hydrotalcite-like compounds as efficient catalysts for the oxidation of volatile organic compounds. <i>Comptes Rendus Chimie</i> , 2018, 21, 993-1000.	0.5	9
23	Thickness effects on physical and electrical properties of Zn <sub>0.97</sub> Co <sub>0.02</sub> In <sub>0.01</sub> O thin films grown by magnetron sputtering RF. <i>Superlattices and Microstructures</i> , 2018, 120, 670-689.	3.1	4
24	The CoAlCeO Mixed Oxide: An Alternative to Palladium-Based Catalysts for Total Oxidation of Industrial VOCs. <i>Catalysts</i> , 2018, 8, 64.	3.5	20
25	Usefulness of toxicological validation of VOCs catalytic degradation by air-liquid interface exposure system. <i>Environmental Research</i> , 2017, 152, 328-335.	7.5	16
26	Co-Al-Ce Mixed Oxide Materials Prepared by Hydrotalcite Way for VOCs Total Oxidation in Micro- and Semi-Pilot Scale. <i>Materials Today: Proceedings</i> , 2016, 3, 188-193.	1.8	7
27	EPR investigation of the nature of oxygen species present on the surface of gold impregnated cerium oxide. <i>Materials Chemistry and Physics</i> , 2016, 170, 285-293.	4.0	11
28	Effect of Ce Substituted Hydrotalcite-derived Mixed Oxides on Total Catalytic Oxidation of Air Pollutant. <i>Materials Today: Proceedings</i> , 2016, 3, 277-281.	1.8	16
29	A comparative study of Cu, Ag and Au doped CeO <sub>2</sub> in the total oxidation of volatile organic compounds (VOCs). <i>Materials Chemistry and Physics</i> , 2016, 177, 570-576.	4.0	64
30	Total oxidation of toluene over gold supported on mesoporous ferrisilicates materials. <i>International Journal of Environment and Pollution</i> , 2015, 58, 187.	0.2	4
31	Catalysts for NO <sub>x</sub> selective catalytic reduction by hydrocarbons (HC-SCR). <i>Applied Catalysis A: General</i> , 2015, 504, 542-548.	4.3	122
32	Degradation of VOCs and NO <sub>x</sub> over Mg(Cu)AlFe mixed oxides derived from hydrotalcite-like compounds. <i>Comptes Rendus Chimie</i> , 2015, 18, 351-357.	0.5	16
33	Identification of by-products issued from the catalytic oxidation of toluene by chemical and biological methods. <i>Comptes Rendus Chimie</i> , 2015, 18, 1084-1093.	0.5	22
34	Propene oxidation and NO reduction over MgCuAl(Fe) mixed oxides derived from hydrotalcite-like compounds. <i>Catalysis Today</i> , 2015, 257, 98-103.	4.4	19
35	New Nanosilver/Ceria Catalyst for Atmospheric Pollution Treatment. <i>Nano</i> , 2015, 10, 1550043.	1.0	4
36	Hierarchically nanostructured porous group V b metal oxides from alkoxide precursors and their role in the catalytic remediation of VOCs. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 300-309.	20.2	24

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37	Co-Al Mixed Oxides Prepared via LDH Route Using Microwaves or Ultrasound: Application for Catalytic Toluene Total Oxidation. <i>Catalysts</i> , 2015, 5, 851-867.	3.5	55
38	Physicochemical characterization and catalytic performance of 10% Ag/CeO <sub>2</sub> catalysts prepared by impregnation and deposition-precipitation. <i>Journal of Catalysis</i> , 2014, 320, 137-146.	6.2	68
39	Total oxidation of toluene over noble metal based Ce, Fe and Ni doped titanium oxides. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 138-146.	20.2	69
40	Investigation of the elimination of VOC mixtures over a Pd-loaded V-doped TiO <sub>2</sub> support. <i>New Journal of Chemistry</i> , 2014, 38, 2066-2074.	2.8	27
41	Hierarchically porous Nb-TiO <sub>2</sub> nanomaterials for the catalytic transformation of 2-propanol and n-butanol. <i>New Journal of Chemistry</i> , 2014, 38, 1988-1995.	2.8	10
42	Influence of hierarchically porous niobium doped TiO <sub>2</sub> supports in the total catalytic oxidation of model VOCs over noble metal nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 149-160.	20.2	44
43	Gold catalysts in environmental remediation and water-gas shift technologies. <i>Energy and Environmental Science</i> , 2013, 6, 371-391.	30.8	105
44	Influence of Gold on Hydrotalcite-like Compound Catalysts for Toluene and CO Total Oxidation. <i>Catalysts</i> , 2013, 3, 966-977.	3.5	11
45	Catalytic Oxidation of Propylene, Toluene, Carbon Monoxide, and Carbon Black over Au/CeO <sub>2</sub> Solids: Comparing the Impregnation and the Deposition-Precipitation Methods. <i>Scientific World Journal</i> , The, 2013, 2013, 1-6.	2.1	6
46	Physicochemical characterization of Au/CeO <sub>2</sub> solid. Part 1: The deposition-precipitation preparation method. <i>Materials Chemistry and Physics</i> , 2012, 137, 34-41.	4.0	9
47	Physicochemical characterization of Au/CeO <sub>2</sub> solids. Part 2: The impregnation preparation method. <i>Materials Chemistry and Physics</i> , 2012, 137, 42-47.	4.0	8
48	Pd- and/or Au-Loaded Nb- and V-Doped Macro-Mesoporous TiO <sub>2</sub> Supports as Catalysts for the Total Oxidation of VOCs. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2812-2818.	2.0	29
49	Catalytic Oxidation of Toluene and CO over Nanocatalysts Derived from Hydrotalcite-Like Compounds (X <sub>6</sub> <sup>2+</sup> Al <sub>2</sub> X <sub>3</sub> ): Effect of the Bivalent Cation. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2802-2811.	2.0	39
50	Catalytic performance of core-shell and alloy Pd-Au nanoparticles for total oxidation of VOC: The effect of metal deposition. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 218-224.	20.2	143
51	Structure, morphology and electrical characterizations of direct current sputtered ZnO thin films. <i>Thin Solid Films</i> , 2012, 520, 4712-4716.	1.8	2
52	VOCs removal in the presence of NO <sub>x</sub> on Cs-Cu/ZrO <sub>2</sub> catalysts. <i>Catalysis Today</i> , 2011, 176, 120-125.	4.4	13
53	Investigation of Au/hydrotalcite catalysts for toluene total oxidation. <i>Catalysis Today</i> , 2011, 176, 116-119.	4.4	12
54	Noble-Metal-Based Catalysts Supported on Zeolites and Macro-Mesoporous Metal Oxide Supports for the Total Oxidation of Volatile Organic Compounds. <i>ChemSusChem</i> , 2011, 4, 1420-1430.	6.8	99

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55	Influence of the meso-macroporous ZrO <sub>2</sub> /TiO <sub>2</sub> calcination temperature on the pre-reduced Pd/ZrO <sub>2</sub> /TiO <sub>2</sub> (1/1) performances in chlorobenzene total oxidation. <i>Catalysis Today</i> , 2011, 164, 566-570.	4.4	22
56	Use and observation of the hydrotalcite memory effect for VOC oxidation. <i>Catalysis Today</i> , 2010, 157, 191-197.	4.4	48
57	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
58	VOCs and carbonaceous particles removal assisted by NO <sub>x</sub> on alkali0.15/ZrO <sub>2</sub> and CsxM0.1/ZrO <sub>2</sub> catalysts (M=...=...Cu or Co). <i>Comptes Rendus Chimie</i> , 2010, 13, 515-526.	0.5	6
59	Titanium oxide nanotubes as supports of Au or Pd nano-sized catalysts for total oxidation of VOCs. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 743-746.	1.5	8
60	Total oxidation of volatile organic compounds on Au/Ce-Ti-O and Au/Ce-Ti-Zr-O mesoporous catalysts. <i>Journal of Materials Science</i> , 2009, 44, 6654-6662.	3.7	29
61	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
62	Total oxidation of VOCs on Pd and/or Au supported on TiO <sub>2</sub> /ZrO <sub>2</sub> followed by DRIFT. <i>Comptes Rendus Chimie</i> , 2009, 12, 654-659.	0.5	45
63	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
64	Composition and textural properties of soot and study of their oxidative elimination by catalytic process. <i>International Journal of Environment and Pollution</i> , 2009, 39, 253.	0.2	3
65	Nanostructured macro-mesoporous zirconia impregnated by noble metal for catalytic total oxidation of toluene. <i>Catalysis Today</i> , 2008, 137, 335-339.	4.4	84
66	Effect of the preparation method on Au/Ce-Ti-O catalysts activity for VOCs oxidation. <i>Catalysis Today</i> , 2008, 137, 367-372.	4.4	47
67	Toluene total oxidation over Co supported catalysts synthesised using memory effect of Mg/Al hydrotalcite. <i>Catalysis Communications</i> , 2008, 9, 1639-1643.	3.3	45
68	Effects of the treatment and the mesoporosity of mesostructured TiO <sub>2</sub> impregnated with noble metal for VOCs oxidation. <i>Studies in Surface Science and Catalysis</i> , 2008, , 1323-1326.	1.5	7
69	Catalytic oxidation of VOCs on Au/Ce-Ti-O. <i>Catalysis Today</i> , 2007, 122, 301-306.	4.4	54
70	Promotional effect of gold added to palladium supported on a new mesoporous TiO <sub>2</sub> for total oxidation of volatile organic compounds. <i>Catalysis Today</i> , 2007, 122, 391-396.	4.4	116
71	Copper-vanadium-cerium oxide catalysts for carbon black oxidation. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 247-253.	20.2	43
72	Influence of the exchanged cation in Pd/BEA and Pd/FAU zeolites for catalytic oxidation of VOCs. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 377-383.	20.2	100

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73	Physico-chemical study of impregnated Cu and V species on CeO <sub>2</sub> support by thermal analysis, XRD, EPR, 51V-MAS-NMR and XPS. Journal of Materials Science, 2007, 42, 6188-6196.	3.7	15
74	Study of active species of Cu-K/ZrO <sub>2</sub> catalysts involved in the oxidation of soot. Journal of Catalysis, 2006, 241, 456-464.	6.2	43
75	Investigation of Binary and Ternary Cu <sup>~</sup> V <sup>~</sup> Ce Oxides by X-ray Diffraction, Thermal Analysis, and Electron Paramagnetic Resonance. Chemistry of Materials, 2001, 13, 3862-3870.	6.7	19
76	EPR Investigation and Reactivity of Diesel Soot Activated (or not) with Cerium Compounds. Topics in Catalysis, 2001, 16/17, 263-268.	2.8	20
77	51V MAS NMR characterization of V <sup>~</sup> Ce <sup>~</sup> O catalysts.. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 158, 43-49.	4.7	27
78	Influence of Shaping on Pd and Pt/TiO <sub>2</sub> Catalysts in Total Oxidation of VOCs. Advanced Materials Research, 0, 324, 162-165.	0.3	5