

# Jean-marc Giraudon

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,168  
citations

236925

25  
h-index

223800

46  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2537  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxyapatite, a multifunctional material for air, water and soil pollution control: A review. <i>Journal of Hazardous Materials</i> , 2020, 383, 121139.	12.4	285
2	Formaldehyde: Catalytic Oxidation as a Promising Soft Way of Elimination. <i>ChemSusChem</i> , 2013, 6, 578-592.	6.8	214
3	Total Oxidation of Formaldehyde over MnO <sub>x</sub> -CeO <sub>2</sub> Catalysts: The Effect of Acid Treatment. <i>ACS Catalysis</i> , 2015, 5, 2260-2269.	11.2	199
4	Capture of formaldehyde by adsorption on nanoporous materials. <i>Journal of Hazardous Materials</i> , 2015, 300, 711-717.	12.4	129
5	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
6	The Use of Zeolites for VOCs Abatement by Combining Non-Thermal Plasma, Adsorption, and/or Catalysis: A Review. <i>Catalysts</i> , 2019, 9, 98.	3.5	99
7	Removal of oxygenated volatile organic compounds by catalytic oxidation over Zr-Ce-Mn catalysts. <i>Journal of Hazardous Materials</i> , 2011, 188, 422-427.	12.4	97
8	Formaldehyde total oxidation over mesoporous MnO <sub>x</sub> catalysts. <i>Catalysis Today</i> , 2011, 176, 277-280.	4.4	77
9	A Systematic Study of the Interactions between Chemical Partners (Metal, Ligands, Counterions, and) <i>Journal of Physical Chemistry B</i> , 2005, 109, 2836-2845.	2.6	65
10	Mesoporous Silica-Confined Manganese Oxide Nanoparticles as Highly Efficient Catalysts for the Low-Temperature Elimination of Formaldehyde. <i>ChemCatChem</i> , 2014, 6, 152-161.	3.7	55
11	Removal of Toluene over NaX Zeolite Exchanged with Cu <sup>2+</sup> . <i>Catalysts</i> , 2015, 5, 1479-1497.	3.5	52
12	Synergistic Coupling of the Redox Properties of Supports and Cobalt Oxide Co <sub>3</sub> O <sub>4</sub> for the Complete Oxidation of Volatile Organic Compounds. <i>Catalysis Letters</i> , 2010, 137, 141-149.	2.6	50
13	Catalytic activity of Co-Mg mixed oxides in the VOC oxidation: Effects of ultrasonic assisted in the synthesis. <i>Catalysis Today</i> , 2011, 176, 286-291.	4.4	49
14	Hierarchical porous $\mu$ -MnO <sub>2</sub> from perovskite precursor: Application to the formaldehyde total oxidation. <i>Chemical Engineering Journal</i> , 2020, 388, 124146.	12.7	42
15	Synthesis and catalytic performances of K-OMS-2, Fe/K-OMS-2 and Fe-K-OMS-2 in post plasma-catalysis for dilute TCE abatement. <i>Catalysis Today</i> , 2018, 307, 20-28.	4.4	41
16	The Design of MnO <sub>x</sub> Based Catalyst in Post-Plasma Catalysis Configuration for Toluene Abatement. <i>Catalysts</i> , 2018, 8, 91.	3.5	40
17	Sugarcane bagasse fly ash as an attractive agro-industry source for VOC removal on porous carbon. <i>Industrial Crops and Products</i> , 2013, 49, 108-116.	5.2	34
18	Effect of praseodymium and europium doping in La <sup>1-x</sup> Ln <sup>x</sup> MnO <sub>3</sub> + (Ln: Pr or Eu, 0 ≤ x ≤ 1) perovskite catalysts for total methane oxidation. <i>Applied Catalysis A: General</i> , 2014, 469, 98-107.	4.3	33

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19	Toluene total oxidation over Pd and Au nanoparticles supported on hydroxyapatite. <i>Comptes Rendus Chimie</i> , 2016, 19, 525-537.	0.5	33
20	Additional effects of Pt and Nb on hierarchically porous titania in the catalytic removal of n-butanol. <i>Catalysis Today</i> , 2012, 192, 154-159.	4.4	32
21	An in-Depth Investigation of Toluene Decomposition with a Glass Beads-Packed Bed Dielectric Barrier Discharge Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 10215-10226.	3.7	32
22	Plasma assisted Cu-Mn mixed oxide catalysts for trichloroethylene abatement in moist air. <i>Journal of Hazardous Materials</i> , 2019, 379, 120781.	12.4	32
23	Combustion synthesis of $\text{LaMn}_{1-x}\text{Al}_x\text{O}_3$ (0 ≤ x ≤ 1): tuning catalytic properties for methane deep oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 1002.	4.1	31
24	Pd- and/or Au-Loaded Nb- and V-Doped Macro-Mesoporous $\text{TiO}_2$ Supports as Catalysts for the Total Oxidation of VOCs. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2812-2818.	2.0	29
25	Au/Co promoted $\text{CeO}_2$ catalysts for formaldehyde total oxidation at ambient temperature: role of oxygen vacancies. <i>Catalysis Science and Technology</i> , 2019, 9, 3203-3213.	4.1	29
26	Highly Active Noble-Metal-Free Copper Hydroxyapatite Catalysts for the Total Oxidation of Toluene. <i>ChemCatChem</i> , 2017, 9, 2275-2283.	3.7	26
27	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
28	From $\text{Al}_2\text{O}_3$ -supported Ni(II)-ethylenediamine complexes to CO hydrogenation catalysts: Characterization of the surface sites and catalytic properties. <i>Applied Catalysis A: General</i> , 2009, 362, 34-39.	4.3	23
29	A Simple and Green Procedure to Prepare Efficient Manganese Oxide Nanopowder for the Low Temperature Removal of Formaldehyde. <i>ChemCatChem</i> , 2017, 9, 2366-2376.	3.7	22
30	Reactive Grinding Synthesis of $\text{LaBO}_3$ (B: Mn, Fe) Perovskite; Properties for Toluene Total Oxidation. <i>Catalysts</i> , 2019, 9, 633.	3.5	20
31	Qualitative By-Product Identification of Plasma-Assisted TCE Abatement by Mass Spectrometry and Fourier-Transform Infrared Spectroscopy. <i>Plasma Chemistry and Plasma Processing</i> , 2011, 31, 707-718.	2.4	17
32	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
33	From $\text{Al}_2\text{O}_3$ -supported Ni(II)-ethylenediamine Complexes to CO Hydrogenation Catalysts: Importance of the Hydrogen Post-treatment Evidenced by XPS. <i>Catalysis Letters</i> , 2008, 124, 18-23.	2.6	16
34	Mesoporous $\text{MnO}_2$ hollow spheres for enhanced catalytic oxidation of formaldehyde. <i>Sustainable Materials and Technologies</i> , 2019, 20, e00091.	3.3	14
35	Optimization of the combustion synthesis towards efficient $\text{LaMnO}_{3+y}$ catalysts in methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2011, , .	20.2	13
36	Reactive Grinding synthesis of $\text{La}(\text{Sr,Ce})\text{CoO}_3$ and their properties in toluene catalytic total oxidation. <i>ChemCatChem</i> , 2020, 12, 2271-2282.	3.7	12

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37	Ready, reversible conversion of a quadruply metal-metal bonded dinuclear complex into a mononuclear complex. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 921-923.	2.0	11
38	Oscillatory Behavior of Pd-Au Catalysts in Toluene Total Oxidation. <i>Catalysts</i> , 2018, 8, 574.	3.5	9
39	Cu-Mn Hydroxyapatite Materials for Toluene Total Oxidation. <i>ChemCatChem</i> , 2020, 12, 550-560.	3.7	9
40	Formaldehyde Total Oxidation on Manganese-Doped Hydroxyapatite: The Effect of Mn Content. <i>Catalysts</i> , 2020, 10, 1422.	3.5	9
41	Mesoporous manganese oxide catalysts for formaldehyde removal: influence of the cerium incorporation. <i>Studies in Surface Science and Catalysis</i> , 2010, , 517-520.	1.5	8
42	Abatement of Toluene Using a Sequential Adsorption-Catalytic Oxidation Process: Comparative Study of Potential Adsorbent/Catalytic Materials. <i>Catalysts</i> , 2020, 10, 761.	3.5	7
43	Preparation and characterization of nanocrystalline Mn-Ce-Zr mixed oxide catalysts by sol-gel method: application to the complete oxidation of n-butanol. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 731-734.	1.5	6
44	MnO <sub>x</sub> -loaded Mesoporous Silica for the Catalytic Oxidation of Formaldehyde. Effect of the Melt Infiltration Conditions on the Activity-Stability Behavior. <i>ChemCatChem</i> , 2020, 12, 1664-1675.	3.7	6
45	Effect of non-thermal plasma in the activation and regeneration of 13X zeolite for enhanced VOC elimination by cycled storage and discharge process. <i>Journal of Cleaner Production</i> , 2022, 364, 132687.	9.3	6
46	Influence of Shaping on Pd and Pt/TiO <sub>2</sub> Catalysts in Total Oxidation of VOCs. <i>Advanced Materials Research</i> , 0, 324, 162-165.	0.3	5
47	Adsorption Followed by Plasma Assisted Catalytic Conversion of Toluene into CO <sub>2</sub> on Hopcalite in an Air Stream. <i>Catalysts</i> , 2021, 11, 845.	3.5	4
48	Acid Washing of MnO <sub>x</sub> /SBA-15 Composites as an Efficient Way to Improve Catalytic Properties in HCHO Total Oxidation. <i>ChemNanoMat</i> , 2020, 6, 1237-1244.	2.8	3
49	Effect of ethylenediamine as chelating agent of cobalt species upon the cobalt-support interactions: application to the VOC catalytic removal. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 389-392.	1.5	1
50	Investigation of the microwave heating techniques for the synthesis of LaMnO <sub>3</sub> + $\delta$ . <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 533-536.	1.5	1
51	Post-Plasma Catalysis for Trichloroethylene Abatement with Ce-Doped Birnessite Downstream DC Corona Discharge Reactor. <i>Catalysts</i> , 2021, 11, 946.	3.5	1