Alessandro Gallo

List of Publications by Year
in descending order

59 papers	3,217 citations	159358 30 h-index	149479 56 g-index
60 all docs	60 docs citations	60 times ranked	5128 citing authors

#	Article	IF	Citations
1	Identification of the active complex for CO oxidation over single-atom Ir-on-MgAl2O4 catalysts. Nature Catalysis, 2019, 2, 149-156.	16.1	222
2	Bimetallic heterogeneous catalysts for hydrogen production. Catalysis Today, 2012, 197, 190-205.	2.2	173
3	Revealing the Synergy between Oxide and Alloy Phases on the Performance of Bimetallic Inâ€"Pd Catalysts for CO₂ Hydrogenation to Methanol. ACS Catalysis, 2019, 9, 3399-3412.	5.5	173
4	Glycerol steam reforming for hydrogen production: Design of Ni supported catalysts. Applied Catalysis B: Environmental, 2012, 111-112, 225-232.	10.8	165
5	Systematic Structureâ€"Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821.	5.5	151
6	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie - International Edition, 2020, 59, 4043-4050.	7.2	148
7	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. ACS Catalysis, 2017, 7, 4372-4380.	5.5	124
8	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2017, 7, 5399-5409.	5.5	120
9	Acidic Oxygen Evolution Reaction Activityâ€"Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	5.5	111
10	Tuning the electronic structure of Ag-Pd alloys to enhance performance for alkaline oxygen reduction. Nature Communications, 2021, 12, 620.	5.8	107
11	Bimetallic Auâ€"Pt/TiO₂photocatalysts active under UV-A and simulated sunlight for H₂production from ethanol. Green Chemistry, 2012, 14, 330-333.	4.6	104
12	H₂ Production by Renewables Photoreforming on Ptâ€"Au/TiO₂ Catalysts Activated by Reduction. ChemSusChem, 2012, 5, 1800-1811.	3.6	102
13	Single-site and nanosized Feâ€"Co electrocatalysts for oxygen reduction: Synthesis, characterization and catalytic performance. Journal of Power Sources, 2011, 196, 2519-2529.	4.0	99
14	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	4.0	81
15	Nickel Catalysts Supported Over TiO₂, SiO₂ and ZrO₂ for the Steam Reforming of Glycerol. ChemCatChem, 2013, 5, 294-306.	1.8	79
16	A Strong Support Effect in Selective Propane Dehydrogenation Catalyzed by Ga(<i>i</i>-Bu)₃ Grafted onto Î^{3}-Alumina and Silica. ACS Catalysis, 2018, 8, 7566-7577.	5.5	79
17	Origin of enhanced water oxidation activity in an iridium single atom anchored on NiFe oxyhydroxide catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	71
18	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO₂. Angewandte Chemie - International Edition, 2018, 57, 15045-15050.	7.2	69

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19	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. Applied Catalysis B: Environmental, 2020, 267, 118369.	10.8	68
20	Niobium metallocenes deposited onto mesoporous silica via dry impregnation as catalysts for selective epoxidation of alkenes. Journal of Catalysis, 2013, 298, 77-83.	3.1	65
21	Influence of reaction parameters on the activity of ruthenium based catalysts for glycerol steam reforming. Applied Catalysis B: Environmental, 2012, 121-122, 40-49.	10.8	63
22	Niobiumâ€“silica catalysts for the selective epoxidation of cyclic alkenes: the generation of the active site by grafting niobocene dichloride. Physical Chemistry Chemical Physics, 2013, 15, 13354.	1.3	59
23	Nitride or Oxynitride? Elucidating the Compositionâ€“Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 2946-2960.	3.2	57
24	Hydrogen storage over metal-doped activated carbon. International Journal of Hydrogen Energy, 2015, 40, 7609-7616.	3.8	44
25	Epoxidation with hydrogen peroxide of unsaturated fatty acid methyl esters over Nb(V)â€silica catalysts. European Journal of Lipid Science and Technology, 2013, 115, 86-93.	1.0	43
26	Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. Review of Scientific Instruments, 2019, 90, 113101.	0.6	40
27	Ligand Exchange-Mediated Activation and Stabilization of a Re-Based Olefin Metathesis Catalyst by Chlorinated Alumina. Journal of the American Chemical Society, 2016, 138, 12935-12947.	6.6	37
28	Highâ€Energyâ€Resolution Xâ€ray Absorption Spectroscopy for Identification of Reactive Surface Species on Supported Singleâ€Site Iridium Catalysts. Chemistry - A European Journal, 2017, 23, 14760-14768.	1.7	35
29	Operando Study of Thermal Oxidation of Monolayer MoS₂. Advanced Science, 2021, 8, 2002768.	5.6	35
30	Structure and catalytic activity of hosted in mesoporous silicas copper species: Effect of preparation procedure and support pore topology. Applied Catalysis A: General, 2011, 406, 13-21.	2.2	30
31	Selective Grafting of Ga(<i>i-</i>Bu)₃ on the Silanols of Mesoporous H-ZSM-5 by Surface Organometallic Chemistry. Journal of Physical Chemistry C, 2015, 119, 26611-26619.	1.5	27
32	Low-pressure methanol synthesis from CO2 over metal-promoted Ni-Ga intermetallic catalysts. Journal of CO2 Utilization, 2020, 39, 101151.	3.3	27
33	Catalytic dehydrogenation of propane over cluster-derived Irâ€“Sn/SiO2 catalysts. Catalysis Letters, 2006, 112, 89-95.	1.4	26
34	Tuning Composition and Activity of Cobalt Titanium Oxide Catalysts for the Oxygen Evolution Reaction. Electrochimica Acta, 2016, 193, 240-245.	2.6	26
35	Optimization of the preparation procedure of cobalt modified silicas as catalysts in methanol decomposition. Applied Catalysis A: General, 2012, 417-418, 209-219.	2.2	25
36	Tungstenocene-grafted silica catalysts for the selective epoxidation of alkenes. Applied Catalysis A: General, 2019, 581, 133-142.	2.2	25

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37	First-Row Transition Metal Antimonates for the Oxygen Reduction Reaction. ACS Nano, 2022, 16, 6334-6348.	7.3	23
38	Size controlled copper nanoparticles hosted in mesoporous silica matrix: Preparation and characterization. Applied Catalysis B: Environmental, 2012, 126, 161-171.	10.8	22
39	Hydrogen Production by Glycerol Steam Reforming with Ruâ€based Catalysts: A Study on Sn Doping. Chemical Vapor Deposition, 2010, 16, 305-310.	1.4	21
40	Resolving structures of transition metal complex reaction intermediates with femtosecond EXAFS. Physical Chemistry Chemical Physics, 2020, 22, 2660-2666.	1.3	21
41	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. Advanced Energy Materials, 2021, 11, 2003545.	10.2	21
42	Tailored copper nanoparticles in ordered mesoporous KIT-6 silica: Preparation and application as catalysts in integrated system for NO removal with products of methanol decomposition. Applied Catalysis A: General, 2013, 464-465, 243-252.	2.2	20
43	Lithium-Mediated Electrochemical Nitrogen Reduction: Tracking Electrodeâ€“Electrolyte Interfaces via Time-Resolved Neutron Reflectometry. ACS Energy Letters, 2022, 7, 1939-1946.	8.8	20
44	Selective butadiene hydrogenation by Pd nanoparticles deposed onto nano-sized oxide supports by CVD of Pd-hexafluoroacetylacetonate. Inorganica Chimica Acta, 2012, 380, 216-222.	1.2	17
45	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2020, 3, 12433-12446.	2.5	17
46	Characterization of a Dynamic Y₂Ir₂O₇ Catalyst during the Oxygen Evolution Reaction in Acid. Journal of Physical Chemistry C, 2022, 126, 1751-1760.	1.5	17
47	Local Structure of Sulfur Vacancies on the Basal Plane of Monolayer MoS₂. ACS Nano, 2022, 16, 6725-6733.	7.3	17
48	Excited state charge distribution and bond expansion of ferrous complexes observed with femtosecond valence-to-core x-ray emission spectroscopy. Journal of Chemical Physics, 2020, 152, 074203.	1.2	15
49	CoTiO_xCatalysts for the Oxygen Evolution Reaction. Journal of the Electrochemical Society, 2015, 162, H841-H846.	1.3	14
50	Evidence of Facilitated Electron Transfer on Hydrogenated Selfâ€Doped TiO₂ Nanocrystals. ChemElectroChem, 2014, 1, 1415-1421.	1.7	12
51	Development of Molybdenum Phosphide Catalysts for Higher Alcohol Synthesis from Syngas by Exploiting Support and Promoter Effects. Energy Technology, 2019, 7, 1801102.	1.8	12
52	Understanding Selectivity in CO2 Hydrogenation to Methanol for MoP Nanoparticle Catalysts Using In Situ Techniques. Catalysts, 2021, 11, 143.	1.6	11
53	A high-throughput energy-dispersive tender X-ray spectrometer for shot-to-shot sulfur measurements. Journal of Synchrotron Radiation, 2019, 26, 629-634.	1.0	11
54	Tailored supported metal nanoparticles by CVD: an easy and efficient scale-up by a rotary bed OMCVD device. Journal of Materials Chemistry, 2009, 19, 9030.	6.7	10

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55	Effect of Nitrogen-Containing Impurities on the Activity of Perovskitic Catalysts for the Catalytic Combustion of Methane. Inorganic Chemistry, 2012, 51, 11680-11687.	1.9	3
56	In Situ Studies of the Formation of MoP Catalysts and Their Structure under Reaction Conditions for Higher Alcohol Synthesis: The Role of Promoters and Mesoporous Supports. Journal of Physical Chemistry C, 2022, 126, 5575-5583.	1.5	2
57	High-Energy-Resolution X-ray Absorption Spectroscopy for Identification of Reactive Surface Species on Supported Single-Site Iridium Catalysts. Chemistry - A European Journal, 2017, 23, 14669-14669.	1.7	0
58	Enhanced Oxygen Reduction Activity on Silver-Palladium Alloyed Thin Film Electrocatalysts in Alkaline Media. ECS Meeting Abstracts, 2020, MA2020-02, 2397-2397.	0.0	0
59	Use of in Situ Synchrotron Techniques to Probe the Oxidized Surface of Molybdenum Nitride Oxygen Reduction Electrocatalysis. ECS Meeting Abstracts, 2020, MA2020-02, 3157-3157.	0.0	0