Luca Artiglia

List of Publications by Year
in descending order

48 papers	1,558 citations	361413 20 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	2311 citing authors

#	Article	IF	Citations
1	Direct evidence of cobalt oxyhydroxide formation on a La_{0.2}Sr_{0.8}CoO₃ perovskite water splitting catalyst. Journal of Materials Chemistry A, 2022, 10, 2434-2444.	10.3	12
2	In situ/operando investigation of catalytic and electrocatalytic interfaces. Journal Physics D: Applied Physics, 2022, 55, 060201.	2.8	0
3	Reactivation of catalysts for methanol-to-hydrocarbons conversion with hydrogen. Journal of Catalysis, 2022, 407, 54-64.	6.2	9
4	Liquidâ€“Gas Interface of Iron Aqueous Solutions and Fenton Reagents. Journal of Physical Chemistry Letters, 2022, 13, 2994-3001.	4.6	7
5	In situ study of low-temperature dry reforming of methane over La2Ce2O7 and LaNiO3 mixed oxides. Applied Catalysis B: Environmental, 2022, 315, 121528.	20.2	15
6	Reply to â€œComment on â€˜Liquidâ€“Gas Interface of Iron Aqueous Solutions and Fenton Reagentsâ€™â€• Journal of Physical Chemistry Letters, 2022, 13, 6681-6682.	4.6	2
7	A stable low-temperature H2-production catalyst by crowding Pt on Î±-MoC. Nature, 2021, 589, 396-401.	27.8	290
8	Operando characterisation of alumina-supported bimetallic Pdâ€“Pt catalysts during methane oxidation in dry and wet conditions. Journal Physics D: Applied Physics, 2021, 54, 174006.	2.8	8
9	Size of Ceria Particles Influences Surface Hydroxylation and Hydroxyl Stability. Journal of Physical Chemistry C, 2021, 125, 9303-9309.	3.1	10
10	Interfacial supercooling and the precipitation of hydrohalite in frozen NaCl solutions as seen by X-ray absorption spectroscopy. Cryosphere, 2021, 15, 2001-2020.	3.9	8
11	Ordered Hydrogen Bonding Structure of Water Molecules Adsorbed on Silver Iodide Particles under Subsaturated Conditions. Journal of Physical Chemistry C, 2021, 125, 11628-11635.	3.1	9
12	On the Stability of Ptâ€Based Catalysts in HBr/Br₂ Solution. Helvetica Chimica Acta, 2021, 104, e2100082.	1.6	1
13	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. ACS Catalysis, 2021, 11, 7371-7382.	11.2	34
14	Enhanced Reducibility of the Ceriaâ€“Tin Oxide Solid Solution Modifies the CO Oxidation Mechanism at the Platinumâ€“Oxide Interface. ACS Catalysis, 2021, 11, 9435-9449.	11.2	19
15	Impact of Tetrabutylammonium on the Oxidation of Bromide by Ozone. ACS Earth and Space Chemistry, 2021, 5, 3008-3021.	2.7	11
16	Influence of Hydrogen Pressure on the Structure of Platinumâ€“Titania Catalysts. Journal of Physical Chemistry C, 2021, 125, 22531-22538.	3.1	9
17	Temperature and Reaction Environment Influence the Nature of Platinum Species Supported on Ceria. ACS Catalysis, 2021, 11, 13041-13049.	11.2	13
18	A surface-promoted redox reaction occurs spontaneously on solvating inorganic aerosol surfaces. Science, 2021, 374, 747-752.	12.6	28

#	Article	IF	Citations
19	Strong Promoting Effect of Gold Nanoparticles on the CO Abatement Catalytic Activity of CoO x /Clayâ€Bonded SiC Catalysts Produced by AAâ€MOCVD Method Using Co(acac) 2 as Precursor. ChemistrySelect, 2020, 5, 13878-13887.	1.5	0
20	The dynamics of overlayer formation on catalyst nanoparticles and strong metal-support interaction. Nature Communications, 2020, 11, 3220.	12.8	151
21	Reversibly Physisorbed and Chemisorbed Water on Carboxylic Salt Surfaces Under Atmospheric Conditions. Journal of Physical Chemistry C, 2020, 124, 5263-5269.	3.1	18
22	Probing the solidâ€“liquid interface with tender x rays: A new ambient-pressure x-ray photoelectron spectroscopy endstation at the Swiss Light Source. Review of Scientific Instruments, 2020, 91, 023103.	1.3	45
23	Surface Propensity of Aqueous Atmospheric Bromine at the Liquidâ€“Gas Interface. Journal of Physical Chemistry Letters, 2020, 11, 3422-3429.	4.6	22
24	Kinetics of the Thermal Oxidation of Ir(100) toward IrO₂ Studied by Ambient-Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 3601-3607.	4.6	21
25	Role of Water on the Structure of Palladium for Complete Oxidation of Methane. ACS Catalysis, 2020, 10, 5783-5792.	11.2	74
26	Surface Segregation Acts as Surface Engineering for the Oxygen Evolution Reaction on Perovskite Oxides in Alkaline Media. Chemistry of Materials, 2020, 32, 5256-5263.	6.7	16
27	Disordered Adsorbed Water Layers on TiO₂ Nanoparticles under Subsaturated Humidity Conditions at 235 K. Journal of Physical Chemistry Letters, 2019, 10, 7433-7438.	4.6	11
28	Variation of Aluminium Distribution in Smallâ€Sized ZSMâ€5 Crystals during Desilication. Chemistry - A European Journal, 2019, 25, 15879-15886.	3.3	10
29	Multiple Reaction Paths for CO Oxidation on a 2D SnO<i>_x</i> Nanoâ€Oxide on the Pt(110) Surface: Intrinsic Reactivity and Spillover. Advanced Materials Interfaces, 2019, 6, 1801874.	3.7	7
30	In Situ X-ray Photoelectron Spectroscopy Detects Multiple Active Sites Involved in the Selective Anaerobic Oxidation of Methane in Copper-Exchanged Zeolites. ACS Catalysis, 2019, 9, 6728-6737.	11.2	38
31	CeO_{<i>x</i>}/TiO₂ (Rutile) Nanocomposites for the Low-Temperature Dehydrogenation of Ethanol to Acetaldehyde: A Diffuse Reflectance Infrared Fourier Transform Spectroscopyâ€“Mass Spectrometry Study. ACS Applied Nano Materials, 2019, 2, 3434-3443.	5.0	11
32	Cuâ€“Al Spinel as a Highly Active and Stable Catalyst for the Reverse Water Gas Shift Reaction. ACS Catalysis, 2019, 9, 6243-6251.	11.2	76
33	Role of Bismuth in the Stability of Ptâ€“Bi Bimetallic Catalyst for Methane Mediated Deoxygenation of Guaiacol, an APXPS Study. ACS Catalysis, 2019, 9, 3694-3699.	11.2	11
34	Design and performance of a new setup for spatially resolved transmission X-ray photoelectron spectroscopy at the Swiss Light Source. Journal of Synchrotron Radiation, 2019, 26, 785-792.	2.4	4
35	Ambient Pressure Photoelectron Spectroscopy: Opportunities in Catalysis from Solids to Liquids and Introducing Time Resolution. ChemCatChem, 2018, 10, 666-682.	3.7	77
36	Pre-melting and the adsorption of formic acid at the airâ€“ice interface at 253 K as seen by NEXAFS and XPS. Physical Chemistry Chemical Physics, 2018, 20, 24408-24417.	2.8	14

#	ARTICLE	IF	CITATIONS
37	X-Ray Excited Electron Spectroscopy to Study Gasâ€“Liquid Interfaces of Atmospheric Relevance. , 2018, , 135-166.		16
38	Cerium Oxide Nanostructures on Titania: Effect of the Structure and Stoichiometry on the Reactivity Toward Ethanol Oxidation. Journal of Physical Chemistry C, 2018, 122, 20809-20816.	3.1	3
39	Subnanometer Gold Clusters on Amino-Functionalized Silica: An Efficient Catalyst for the Synthesis of 1,3-Diynes by Oxidative Alkyne Coupling. ACS Catalysis, 2017, 7, 3414-3418.	11.2	40
40	Introducing Time Resolution to Detect Ce³⁺ Catalytically Active Sites at the Pt/CeO₂ Interface through Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 102-108.	4.6	80
41	A surface-stabilized ozonide triggers bromide oxidation at the aqueous solution-vapour interface. Nature Communications, 2017, 8, 700.	12.8	59
42	Coexistence of Physisorbed and Solvated HCl at Warm Ice Surfaces. Journal of Physical Chemistry Letters, 2017, 8, 4757-4762.	4.6	26
43	Experimental Evidence for the Formation of Solvation Shells by Soluble Species at a Nonuniform Airâ€“Ice Interface. ACS Earth and Space Chemistry, 2017, 1, 572-579.	2.7	17
44	Chemical Composition and Properties of the Liquidâ€“Vapor Interface of Aqueous C1 to C4 Monofunctional Acid and Alcohol Solutions. Journal of Physical Chemistry A, 2016, 120, 9749-9758.	2.5	26
45	Vanadium oxide nanostructures on another oxide: The viewpoint from model catalysts studies. Coordination Chemistry Reviews, 2015, 301-302, 106-122.	18.8	50
46	TiO₂@CeO_{<i>x</i>} Coreâ€“Shell Nanoparticles as Artificial Enzymes with Peroxidase-Like Activity. ACS Applied Materials & Interfaces, 2014, 6, 20130-20136.	8.0	87
47	From Vanadia Nanoclusters to Ultrathin Films on TiO₂(110): Evolution of the Yield and Selectivity in the Ethanol Oxidation Reaction. ACS Catalysis, 2014, 4, 3715-3723.	11.2	23
48	Atomic Structure and Special Reactivity Toward Methanol Oxidation of Vanadia Nanoclusters on TiO₂(110). Journal of the American Chemical Society, 2013, 135, 17331-17338.	13.7	39