

# Matteo Farnesi Camellone

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,577  
citations

279798

23  
h-index

265206

42  
g-index

44  
all docs

44  
docs citations

44  
times ranked

3768  
citing authors

#	ARTICLE	IF	CITATIONS
1	Creating single-atom Pt-ceria catalysts by surface step decoration. Nature Communications, 2016, 7, 10801.	12.8	388
2	Structure of the catalytically active copper-ceria interfacial perimeter. Nature Catalysis, 2019, 2, 334-341.	34.4	368
3	Reaction Mechanisms for the CO Oxidation on Au/CeO <sub>2</sub> Catalysts: Activity of Substitutional Au <sup>3+</sup> /Au <sup>+</sup> Cations and Deactivation of Supported Au <sup>+</sup> Adatoms. Journal of the American Chemical Society, 2009, 131, 10473-10483.	13.7	304
4	Nanofaceted Pd <sub>2</sub> O Sites in Pd <sub>2</sub> Ce Surface Superstructures: Enhanced Activity in Catalytic Combustion of Methane. Angewandte Chemie - International Edition, 2009, 48, 8481-8484.	13.8	256
5	Charge Localization Dynamics Induced by Oxygen Vacancies on the TiO <sub>2</sub> (110) Surfaces. Journal of Physical Chemistry Letters, 2010, 1, 567-571.	7.8	207
6	Thermodynamic, electronic and structural properties of Cu/CeO <sub>2</sub> surfaces and interfaces from first-principles DFT+U calculations. Journal of Chemical Physics, 2010, 133, 234705.	3.0	83
7	Catalytic Proton Dynamics at the Water/Solid Interface of Ceria-Supported Pt Clusters. Journal of the American Chemical Society, 2016, 138, 11560-11567.	13.7	82
8	Fluxionality of Au Clusters at Ceria Surfaces during CO Oxidation: Relationships among Reactivity, Size, Cohesion, and Surface Defects from DFT Simulations. Journal of Physical Chemistry Letters, 2013, 4, 2256-2263.	4.6	76
9	Molecular Understanding of Reactivity and Selectivity for Methanol Oxidation at the Au/TiO <sub>2</sub> Interface. Angewandte Chemie - International Edition, 2013, 52, 5780-5784.	13.8	63
10	Reactivity of atomically dispersed Pt <sup>2+</sup> species towards H <sub>2</sub> : model Pt-ceria fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	2.8	61
11	Local Structure and Gold Promotion on TiO <sub>2</sub> (110) Surfaces Interacting with CO, H <sub>2</sub> , and H <sub>2</sub> O. Journal of Physical Chemistry Letters, 2010, 1, 567-571.	3.2	57
12	Bulk Hydroxylation and Effective Water Splitting by Highly Reduced Cerium Oxide: The Role of O Vacancy Coordination. ACS Catalysis, 2018, 8, 4354-4363.	11.2	52
13	Effects of Thermal Fluctuations on the Hydroxylation and Reduction of Ceria Surfaces by Molecular H <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 21567-21573.	3.1	50
14	Distinct Physicochemical Properties of the First Ceria Monolayer on Cu(111). Journal of Physical Chemistry C, 2012, 116, 6677-6684.	3.1	40
15	Quantitative Analysis of the Oxidation State of Cobalt Oxides by Resonant Photoemission Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6129-6136.	4.6	39
16	Copper-ceria interaction: A combined photoemission and DFT study. Applied Surface Science, 2013, 267, 12-16.	6.1	37
17	On the Impact of Solvation on a Au/TiO <sub>2</sub> Nanocatalyst in Contact with Water. Journal of Physical Chemistry Letters, 2013, 4, 514-518.	4.6	37
18	Density Functional Theory Study and Photocatalytic Activity of ZnO/N-Doped TiO <sub>2</sub> Heterojunctions. Journal of Physical Chemistry C, 2022, 126, 7000-7011.	3.1	31

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19	Nature and Role of Activated Molecular Oxygen Species at the Gold/Titania Interface in the Selective Oxidation of Alcohols. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20989-21000.	3.1	29
20	Hole localization in $\text{FeO}_2$ from density functional theory and wave-function-based methods. <i>Physical Review Materials</i> , 2017, 1, .	2.4	26
21	On the electronic, structural, and thermodynamic properties of Au supported on $\text{Fe}_2\text{O}_3$ surfaces and their interaction with CO. <i>Journal of Chemical Physics</i> , 2015, 143, 034704.	3.0	25
22	Solvation-Induced Changes in the Mechanism of Alcohol Oxidation at Gold/Titania Nanocatalysts in the Aqueous Phase versus Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3327-3331.	13.8	25
23	Probing the Reactivity of Pt/Ceria Nanocatalysts toward Methanol Oxidation: From Ionic Single-Atom Sites to Metallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17917-17927.	3.1	22
24	Ultimate dispersion of metallic and ionic platinum on ceria. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13019-13028.	10.3	21
25	$\text{CuFeO}_2$ Water Interface under Illumination: Structural, Electronic, and Catalytic Implications for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2021, 11, 1897-1910.	11.2	20
26	Adatom and Nanoparticle Dynamics on Single-Atom Catalyst Substrates. <i>ACS Catalysis</i> , 2022, 12, 4859-4871.	11.2	19
27	Thermodynamic Stability and Native Point Defects of $\text{CuFeO}_2$ Photocathodes in Dry and Electrochemical Environments. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29589-29598.	3.1	17
28	DFT Investigation of Substitutional and Interstitial Nitrogen-Doping Effects on a $\text{ZnO}(100)/\text{TiO}_2(101)$ Heterojunction. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3180-3193.	3.1	15
29	Density functional theory study of self-trapped holes in disordered $\text{SiO}_2$ . <i>Physical Review B</i> , 2009, 80, .	3.2	14
30	Solvation of $\text{Au}^+$ versus $\text{Au}^0$ in aqueous solution: electronic structure governs solvation shell patterns. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 937-944.	2.8	13
31	Formation of electron traps in amorphous silica. <i>Physical Review B</i> , 2007, 76, .	3.2	12
32	Spontaneous Production of Ultrastable Reactive Oxygen Species on Titanium Oxide Surfaces Modified with Organic Ligands. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100629.	3.7	11
33	Dynamical Solvent Effects on the Charge and Reactivity of Ceria-Supported Pt Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27507-27515.	3.1	10
34	Two different mechanisms of stabilization of regular $\pi$ -stacks of radicals in switchable dithiazolyl-based materials. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5437-5448.	5.5	7
35	Engineering of corrosion product-polymer hybrid layers for enhanced $\text{CO}_2$ corrosion protection of carbon steel part two: Computational investigation and surface characterisation. <i>Polymer</i> , 2022, 250, 124776.	3.8	7
36	Self-texturizing electronic properties of a 2-dimensional $\text{GdAu}_2$ layer on Au(111): the role of out-of-plane atomic displacement. <i>Nanoscale</i> , 2017, 9, 17342-17348.	5.6	6

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37	Oxidation of Gas-Phase and Supported Pt Nanoclusters: An <i>Ab Initio</i> Investigation. Journal of Physical Chemistry C, 2022, 126, 10880-10888.	3.1	4
38	Can Atomic Buckling Control a Chemical Reaction? The Case of Dehydrogenation of Phthalocyanine Molecules on GdAu <sub>2</sub> /Au(111). Journal of Physical Chemistry C, 2019, 123, 6496-6501.	3.1	3
39	Solvation-Induced Changes in the Mechanism of Alcohol Oxidation at Gold/Titania Nanocatalysts in the Aqueous Phase versus Gas Phase. Angewandte Chemie, 2018, 130, 3385-3389.	2.0	1
40	Innentitelbild: Solvation-Induced Changes in the Mechanism of Alcohol Oxidation at Gold/Titania Nanocatalysts in the Aqueous Phase versus Gas Phase (Angew. Chem. 13/2018). Angewandte Chemie, 2018, 130, 3322-3322.	2.0	0