Matteo Farnesi Camellone

List of Publications by Year
in descending order

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40 papers	2,577 citations	279778 23 h-index	265191 42 g-index
44 all docs	44 docs citations	44 times ranked	3768 citing authors

#	Article	IF	Citations
1	DFT Investigation of Substitutional and Interstitial Nitrogen-Doping Effects on a ZnO(100)â€“TiO₂(101) Heterojunction. Journal of Physical Chemistry C, 2022, 126, 3180-3193.	3.1	15
2	Adatom and Nanoparticle Dynamics on Single-Atom Catalyst Substrates. ACS Catalysis, 2022, 12, 4859-4871.	11.2	19
3	Density Functional Theory Study and Photocatalytic Activity of ZnO/N-Doped TiO₂ Heterojunctions. Journal of Physical Chemistry C, 2022, 126, 7000-7011.	3.1	31
4	Engineering of corrosion product-polymer hybrid layers for enhanced CO2 corrosion protection of carbon steel part two: Computational investigation and surface characterisation. Polymer, 2022, 250, 124776.	3.8	7
5	Oxidation of Gas-Phase and Supported Pt Nanoclusters: An Ab Initio Investigation. Journal of Physical Chemistry C, 2022, 126, 10880-10888.	3.1	4
6	CuFeO₂â€“Water Interface under Illumination: Structural, Electronic, and Catalytic Implications for the Hydrogen Evolution Reaction. ACS Catalysis, 2021, 11, 1897-1910.	11.2	20
7	Spontaneous Production of Ultrastable Reactive Oxygen Species on Titanium Oxide Surfaces Modified with Organic Ligands. Advanced Materials Interfaces, 2021, 8, 2100629.	3.7	11
8	Two different mechanisms of stabilization of regular Ï€-stacks of radicals in switchable dithiazolyl-based materials. Journal of Materials Chemistry C, 2020, 8, 5437-5448.	5.5	7
9	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
10	Ultimate dispersion of metallic and ionic platinum on ceria. Journal of Materials Chemistry A, 2019, 7, 13019-13028.	10.3	21
11	Can Atomic Buckling Control a Chemical Reaction? The Case of Dehydrogenation of Phthalocyanine Molecules on GdAu₂/Au(111). Journal of Physical Chemistry C, 2019, 123, 6496-6501.	3.1	3
12	Structure of the catalytically active copperâ€“ceria interfacial perimeter. Nature Catalysis, 2019, 2, 334-341.	34.4	368
13	Thermodynamic Stability and Native Point Defects of CuFeO₂ Photocathodes in Dry and Electrochemical Environments. Journal of Physical Chemistry C, 2019, 123, 29589-29598.	3.1	17
14	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
15	Solvationâ€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
16	Solvationâ€Induced Changes in the Mechanism of Alcohol Oxidation at Gold/Titania Nanocatalysts in the Aqueous Phase versus Gas Phase. Angewandte Chemie - International Edition, 2018, 57, 3327-3331.	13.8	25
17	Innentitelbild: Solvationâ€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
18	Dynamical Solvent Effects on the Charge and Reactivity of Ceria-Supported Pt Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 27507-27515.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Probing the Reactivity of Pt/Ceria Nanocatalysts toward Methanol Oxidation: From Ionic Single-Atom Sites to Metallic Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 17917-17927.	3.1	22
20	Self-texturizing electronic properties of a 2-dimensional GdAu₂ layer on Au(111): the role of out-of-plane atomic displacement. Nanoscale, 2017, 9, 17342-17348.	5.6	6
21	Hole localization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> from density functional theory and wave-function-based methods. Physical Review Materials, 2017, 1, .	2.4	26
22	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
23	Creating single-atom Pt-ceria catalysts by surface step decoration. Nature Communications, 2016, 7, 10801.	12.8	388
24	Reactivity of atomically dispersed Pt²⁺ species towards H₂: model Ptâ€“CeO₂ fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	2.8	61
25	On the electronic, structural, and thermodynamic properties of Au supported on <i>Î±</i>-Fe2O3 surfaces and their interaction with CO. Journal of Chemical Physics, 2015, 143, 034704.	3.0	25
26	Effects of Thermal Fluctuations on the Hydroxylation and Reduction of Ceria Surfaces by Molecular H₂. Journal of Physical Chemistry C, 2015, 119, 21567-21573.	3.1	50
27	Nature and Role of Activated Molecular Oxygen Species at the Gold/Titania Interface in the Selective Oxidation of Alcohols. Journal of Physical Chemistry C, 2014, 118, 20989-21000.	3.1	29
28	Copper-ceria interaction: A combined photoemission and DFT study. Applied Surface Science, 2013, 267, 12-16.	6.1	37
29	On the Impact of Solvation on a Au/TiO₂ Nanocatalyst in Contact with Water. Journal of Physical Chemistry Letters, 2013, 4, 514-518.	4.6	37
30	Molecular Understanding of Reactivity and Selectivity for Methanol Oxidation at the Au/TiO₂ Interface. Angewandte Chemie - International Edition, 2013, 52, 5780-5784.	13.8	63
31	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
32	Distinct Physicochemical Properties of the First Ceria Monolayer on Cu(111). Journal of Physical Chemistry C, 2012, 116, 6677-6684.	3.1	40
33	Solvation of Au⁺versusAu⁰in aqueous solution: electronic structure governs solvation shell patterns. Physical Chemistry Chemical Physics, 2012, 14, 937-944.	2.8	13
34	Ideal, defective, and gold-promoted rutile TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>(110) surfaces interacting with CO, H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>, and H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	57
35	Charge Localization Dynamics induced by Oxygen Vacancies on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 87 Td (stretchy="fal	7.8	207
36	Thermodynamic, electronic and structural properties of Cu/CeO $_2$2 surfaces and interfaces from first-principles DFT+U calculations. Journal of Chemical Physics, 2010, 133, 234705.	3.0	83

#	Article	IF	Citations
37	Nanofaceted Pd¿O Sites in Pd¿Ce Surface Superstructures: Enhanced Activity in Catalytic Combustion of Methane. Angewandte Chemie - International Edition, 2009, 48, 8481-8484.	13.8	256
38	Reaction Mechanisms for the CO Oxidation on Au/CeO₂ Catalysts: Activity of Substitutional Au³⁺/Au⁺ Cations and Deactivation of Supported Au⁺ Adatoms. Journal of the American Chemical Society, 2009, 131, 10473-10483.	13.7	304
39	Density functional theory study of self-trapped holes in disorderedSiO2. Physical Review B, 2009, 80, .	3.2	14
40	Formation of electron traps in amorphous silica. Physical Review B, 2007, 76, .	3.2	12