

# Giovanni Di Liberto

## List of Publications by Year in descending order

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41  
papers

1,325  
citations

279798  
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361022  
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all docs

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docs citations

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times ranked

847  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Close Look at the Structure of the TiO <sub>2</sub> -APTES Interface in Hybrid Nanomaterials and Its Degradation Pathway: An Experimental and Theoretical Study. Journal of Physical Chemistry C, 2017, 121, 430-440.	3.1	123
2	Role of Dihydride and Dihydrogen Complexes in Hydrogen Evolution Reaction on Single-Atom Catalysts. Journal of the American Chemical Society, 2021, 143, 20431-20441.	13.7	77
3	Azide-Alkyne Click Chemistry over a Heterogeneous Copper-Based Single-Atom Catalyst. ACS Catalysis, 2022, 12, 2947-2958.	11.2	68
4	Universal Principles for the Rational Design of Single Atom Electrocatalysts? Handle with Care. ACS Catalysis, 2022, 12, 5846-5856.	11.2	60
5	Semiclassical "Divide-and-Conquer" Method for Spectroscopic Calculations of High Dimensional Molecular Systems. Physical Review Letters, 2017, 119, 010401.	7.8	57
6	Interfacing single-atom catalysis with continuous-flow organic electrosynthesis. Chemical Society Reviews, 2022, 51, 3898-3925.	38.1	50
7	Unraveling the Cooperative Mechanism of Visible-Light Absorption in Bulk N,Nb Codoped TiO <sub>2</sub> Powders of Nanomaterials. Journal of Physical Chemistry C, 2014, 118, 24152-24164.	3.1	47
8	Role of Heterojunction in Charge Carrier Separation in Coexposed Anatase (001) " (101) Surfaces. Journal of Physical Chemistry Letters, 2019, 10, 2372-2377.	4.6	46
9	Quantum confinement in group III " V semiconductor 2D nanostructures. Nanoscale, 2020, 12, 17494-17501.	5.6	46
10	Band Gap of 3D Metal Oxides and Quasi-2D Materials from Hybrid Density Functional Theory: Are Dielectric-Dependent Functionals Superior?. Journal of Chemical Theory and Computation, 2019, 15, 6294-6312.	5.3	45
11	Rational Design of Semiconductor Heterojunctions for Photocatalysis. Chemistry - A European Journal, 2021, 27, 13306-13317.	3.3	44
12	Density Functional Theory Estimate of Halide Perovskite Band Gap: When Spin Orbit Coupling Helps. Journal of Physical Chemistry C, 2022, 126, 2184-2198.	3.1	40
13	"Divide and conquer" semiclassical molecular dynamics: A practical method for spectroscopic calculations of high dimensional molecular systems. Journal of Chemical Physics, 2018, 148, 014307.	3.0	39
14	"Divide-and-conquer" semiclassical molecular dynamics: An application to water clusters. Journal of Chemical Physics, 2018, 148, 104302.	3.0	38
15	Impregnation versus Bulk Synthesis: How the Synthetic Route Affects the Photocatalytic Efficiency of Nb/Ta:N Codoped TiO <sub>2</sub> Nanomaterials. Journal of Physical Chemistry C, 2015, 119, 24104-24115.	3.1	36
16	The importance of the pre-exponential factor in semiclassical molecular dynamics. Journal of Chemical Physics, 2016, 145, 144107.	3.0	36
17	Nitrogen doping in coexposed (001) " (101) anatase TiO <sub>2</sub> surfaces: a DFT study. Physical Chemistry Chemical Physics, 2019, 21, 21497-21505.	2.8	36
18	Protonated glycine supramolecular systems: the need for quantum dynamics. Chemical Science, 2018, 9, 7894-7901.	7.4	35

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19	Vibrational investigation of nucleobases by means of divide and conquer semiclassical dynamics. <i>Journal of Chemical Physics</i> , 2019, 150, 224107.	3.0	29
20	Reduced rovibrational coupling Cartesian dynamics for semiclassical calculations: Application to the spectrum of the Zundel cation. <i>Journal of Chemical Physics</i> , 2019, 151, 114307.	3.0	26
21	Plasmonic Au nanoclusters dispersed in nitrogen-doped graphene as a robust photocatalyst for light-to-hydrogen conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22810-22819.	10.3	26
22	Atomistic Explanation for Interlayer Charge Transfer in Metal-Semiconductor Nanocomposites: The Case of Silver and Anatase. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5372-5377.	4.6	25
23	Charge Carriers Cascade in a Ternary $\text{TiO}_2/\text{TiO}_2/\text{ZnS}$ Heterojunction: A DFT Study. <i>ChemCatChem</i> , 2020, 12, 2097-2105.	3.7	25
24	Z-Scheme versus type-II junction in $\text{g-C}_3\text{N}_4/\text{TiO}_2$ and $\text{g-C}_3\text{N}_4/\text{SrTiO}_3/\text{TiO}_2$ heterostructures. <i>Catalysis Science and Technology</i> , 2021, 11, 3589-3598.	4.1	25
25	Nature of $\text{SrTiO}_3/\text{TiO}_2$ (anatase) heterostructure from hybrid density functional theory calculations. <i>Journal of Chemical Physics</i> , 2020, 152, 184704.	3.0	23
26	Band Gap in Magnetic Insulators from a Charge Transition Level Approach. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3786-3798.	5.3	22
27	$\text{WO}_3/\text{BiVO}_4$ Photoanodes: Facets Matching at the Heterojunction and $\text{BiVO}_4$ Layer Thickness Effects. <i>ACS Applied Energy Materials</i> , 2021, 4, 8421-8431.	5.1	22
28	pH Dependence of $\text{MgO}$ , $\text{TiO}_2$ , and $\gamma\text{-Al}_2\text{O}_3$ Surface Chemistry from First Principles. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10216-10223.	3.1	21
29	Role of surface termination and quantum size in $\text{CsPbX}_3$ ( $\text{X} = \text{Cl}, \text{Br}, \text{I}$ ) 2D nanostructures for solar light harvesting. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3031-3040.	2.8	20
30	Nature and Role of Surface Junctions in $\text{BiOIO}_3$ Photocatalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2009472.	14.9	20
31	A quantum mechanical insight into $\text{S}_\text{N}2$ reactions: Semiclassical initial value representation calculations of vibrational features of the $\text{Cl}^\ddagger\text{-CH}_3\text{Cl}$ pre-reaction complex with the VENUS suite of codes. <i>Journal of Chemical Physics</i> , 2018, 149, 164113.	3.0	19
32	Band offset in semiconductor heterojunctions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 415002.	1.8	19
33	Role of surface termination in forming type-II photocatalyst heterojunctions: the case of $\text{TiO}_2/\text{BiVO}_4$ . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 075001.	1.8	18
34	Theoretical treatment of semiconductor heterojunctions for photocatalysis: the $\text{WO}_3/\text{BiVO}_4$ interface. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 434001.	1.8	16
35	Direct measurement and modeling of spontaneous charge migration across anatase-brookite nanoheterojunctions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7782-7790.	10.3	14
36	$\text{LaFeO}_3$ meets nitrogen-doped graphene functionalized with ultralow Pt loading in an impactful Z-scheme platform for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3330-3340.	10.3	14

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37	Structure and Band Alignment of InP Photocatalysts Passivated by TiO <sub>2</sub> Thin Films. Journal of Physical Chemistry C, 2021, 125, 11620-11627.	3.1	7
38	First principles approach to solar energy conversion efficiency of semiconductor heterojunctions. Solar Energy, 2022, 236, 445-454.	6.1	6
39	Structural and electronic properties of TiO <sub>2</sub> from first principles calculations. , 2021, , 67-85.		2
40	Computational study of group III-V semiconductors and their interaction with oxide thin films. Solid-State Electronics, 2021, 184, 108038.	1.4	2
41	Structures and properties of Pd nanoparticles intercalated in layered TiO <sub>2</sub> : A computational study. Catalysis Today, 2021, , .	4.4	1