

Giancarlo Cicero

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3794317/giancarlo-cicero-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,380
citations

19
h-index

35
g-index

61
ext. papers

1,544
ext. citations

6.5
avg, IF

4.6
L-index

#	Paper	IF	Citations
59	Water confined in nanotubes and between graphene sheets: a first principle study. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1871-8	16.4	353
58	Atomic control of water interaction with biocompatible surfaces: the case of SiC(001). <i>Physical Review Letters</i> , 2004 , 93, 016102	7.4	100
57	Water at a hydrophilic solid surface probed by ab initio molecular dynamics: inhomogeneous thin layers of dense fluid. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6830-5	16.4	58
56	Single functional group interactions with individual carbon nanotubes. <i>Nature Nanotechnology</i> , 2007 , 2, 692-7	28.7	55
55	Hydroxyl-rich beta-sheet adhesion to the gold surface in water by first-principle simulations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4790-5	16.4	54
54	Interaction of Water Molecules with SiC(001) Surfaces. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16518-24	16.5	48
53	MoS ₂ Enhanced T-Phase Stabilization and Tunability Through Alloying. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2304-9	6.4	48
52	NO ₂ Gas Sensing Mechanism of ZnO Thin-Film Transducers: Physical Experiment and Theoretical Correlation Study. <i>ACS Sensors</i> , 2016 , 1, 406-412	9.2	47
51	A New Theoretical Insight Into ZnO NWs Memristive Behavior. <i>Nano Letters</i> , 2016 , 16, 2543-7	11.5	38
50	Combined experimental and theoretical investigation of the hemi-squaraine/TiO ₂ interface for dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7198-203	3.6	30
49	Electronic effects in the IR spectrum of water under confinement. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4170-5	3.4	28
48	Ab initio study of misfit dislocations at the SiC/Si(001) interface. <i>Physical Review Letters</i> , 2002 , 89, 15610-4	7.4	27
47	Structural and electronic properties of ZnO nanowires: a theoretical study. <i>Energy Procedia</i> , 2011 , 10, 128-137	2.3	25
46	Adsorption-induced surface stresses in alkanethiolate-au self-assembled monolayers. <i>Physical Review Letters</i> , 2008 , 101, 185504	7.4	24
45	Polarization properties of (11 $\bar{1}$ 00) and (112 $\bar{1}$) SiC surfaces from first principles. <i>Physical Review B</i> , 2007 , 76,	3.3	24
44	Towards SiC surface functionalization: an ab initio study. <i>Journal of Chemical Physics</i> , 2005 , 122, 214716	3.9	23
43	Anomalous dissipation in single-walled carbon nanotube resonators. <i>Nano Letters</i> , 2009 , 9, 3699-703	11.5	22

42	Surface-induced polarity inversion in ZnO nanowires. <i>Physical Review B</i> , 2009 , 80,	3.3	22
41	Unravelling Some of the Structure-Property Relationships in Graphene Oxide at Low Degree of Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1746-1749	6.4	20
40	Mpemba-Like Behavior in Carbon Nanotube Resonators. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3907-3912	2.3	19
39	A theoretical study of biotin chemisorption on Si-SiC(001) surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13656-62	3.4	19
38	Fundamental Insights on Hydration Environment of Boric Acid and Its Role in Separation from Saline Water. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1438-1445	3.8	17
37	Modifications of cubic SiC surfaces studied by ab initio simulations: from gas adsorption to organic functionalization. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6215-6224	3	16
36	Microwave-Assisted Synthesis of Copper-Based Electrocatalysts for Converting Carbon Dioxide to Tunable Syngas. <i>ChemElectroChem</i> , 2020 , 7, 229-238	4.3	16
35	First principles description of the electronic properties of doped ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2106-2109	1.3	15
34	Characterization of amorphous In ₂ O ₃ : An ab initio molecular dynamics study. <i>Applied Physics Letters</i> , 2011 , 99, 211913	3.4	15
33	Doped ordered mesoporous carbons as novel, selective electrocatalysts for the reduction of nitrobenzene to aniline. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13397-13411	13	14
32	Structural and Electronic Properties of the Methyl-Terminated Si(111) Surface. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11898-11902	3.8	14
31	Effect of nitrogen impurities on the physical properties of ZnO nanowires: First-principles study. <i>Physical Review B</i> , 2012 , 85,	3.3	13
30	Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48773-48780	9.5	13
29	Theoretical Study of Nanoporous Graphene Membranes for Natural Gas Purification. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1547	2.6	13
28	Proving the existence of Mn porphyrin-like complexes hosted in reduced graphene oxide with outstanding performance as oxygen reduction reaction catalysts. <i>2D Materials</i> , 2019 , 6, 045001	5.9	11
27	Co-Adsorbent Effect on the Sensitization of TiO ₂ and ZnO Surfaces: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27348-27353	3.8	11
26	Controlled Pore Generation in Single-Layer Graphene Oxide for Membrane Desalination. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7492-7497	6.4	11
25	Study of the oxidative half-reaction catalyzed by a non-heme ferrous catalytic center by means of structural and computational methodologies. <i>International Journal of Quantum Chemistry</i> , 2007 , 107, 1514-1522	2.1	11

24	Adhesion of single functional groups to individual carbon nanotubes: Electronic effects probed by ab initio calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	11
23	Structure-property relations in amorphous carbon for photovoltaics. <i>Applied Physics Letters</i> , 2014 , 105, 043903	3.4	9
22	Wetting behavior of low-index cubic SiC surfaces. <i>Journal of Chemical Physics</i> , 2006 , 124, 024707	3.9	8
21	First principles study of the initial stages of SiC growth on Si(001). <i>Applied Physics Letters</i> , 2001 , 78, 2312-2314	3.9	8
20	Does platinum play a role in the resistance switching of ZnO nanowire-based devices?. <i>Solid State Ionics</i> , 2017 , 299, 93-95	3.3	7
19	Unveiling the Fundamental Role of Temperature in RRAM Switching Mechanism by Multiscale Simulations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7512-7519	9.5	6
18	Tailoring the optical properties of MoS and WS single layers via organic functionalization. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 235701	1.8	6
17	Functionalization layer effect on the mechanical properties of silicon based micro-cantilever mass sensors: A theoretical study. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 177-180	8.5	6
16	Novel Insights into Sb-Cu Catalysts for Electrochemical Reduction of CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2022 , 306, 121089	21.8	6
15	Unravelling electrocatalytic properties of metal porphyrin-like complexes hosted in graphene matrices. <i>2D Materials</i> , 2020 , 7, 025017	5.9	5
14	Origin of the accumulation layer at the InN/a-In ₂ O ₃ interface. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5415-9	9.5	5
13	Facilely synthesized nitrogen-doped reduced graphene oxide functionalized with copper ions as electrocatalyst for oxygen reduction. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	5
12	Si(1 1 1) surface functionalized with H-bonded SAM: A theoretical study. <i>Applied Surface Science</i> , 2013 , 267, 17-20	6.7	4
11	C adsorption and diffusion at the Si(0 0 1) surface: implications for SiC growth. <i>Applied Surface Science</i> , 2001 , 184, 113-117	6.7	4
10	Spatially indirect excitons in black and blue phosphorene double layers. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
9	First-Principles Calculations of Exciton Radiative Lifetimes in Monolayer Graphitic Carbon Nitride Nanosheets: Implications for Photocatalysis. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1985-1993	5.6	3
8	Nanostructured Bulk-Heterojunction Solar Cells Based on Amorphous Carbon. <i>ACS Energy Letters</i> , 2017 , 2, 882-888	20.1	2
7	A molecular dynamics study of the SiC/Si(001) interface. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 13031-13036	1.8	2

6	Prediction of the structural and electronic properties of $\text{Mo}_x\text{Ti}_{1-x}\text{S}_2$ monolayers via first principle simulations. <i>Nanomaterials and Nanotechnology</i> , 2020 , 10, 184798042095509	2.9	2
5	Scaling and spatial analysis of the dielectric response of cadmium selenide nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	1
4	Point Defects in Two-Dimensional Indium Selenide as Tunable Single-Photon Sources. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10947-10952	6.4	1
3	Boosted Solar Light Absorbance in PdS/PtS Vertical Heterostructures for Ultrathin Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43615-43621	9.5	1
2	Molecular dynamics study of the pore formation in single layer graphene oxide by a thermal reduction process. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11831-11836	3.6	0
1	Ab Initio Simulations of Semiconductor Surfaces and Interfaces. <i>Springer Handbooks</i> , 2020 , 119-153	1.3	