

Giancarlo Cicero

List of Publications by Year in descending order

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61
papers

1,699
citations

279701

23
h-index

289141

40
g-index

61
all docs

61
docs citations

61
times ranked

2839
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Confined in Nanotubes and between Graphene Sheets: A First Principle Study. Journal of the American Chemical Society, 2008, 130, 1871-1878.	6.6	405
2	Atomic Control of Water Interaction with Biocompatible Surfaces: The Case of SiC(001). Physical Review Letters, 2004, 93, 016102.	2.9	107
3	NO ₂ Gas Sensing Mechanism of ZnO Thin-Film Transducers: Physical Experiment and Theoretical Correlation Study. ACS Sensors, 2016, 1, 406-412.	4.0	65
4	Water at a Hydrophilic Solid Surface Probed by Ab initio Molecular Dynamics: An Inhomogeneous Thin Layers of Dense Fluid. Journal of the American Chemical Society, 2005, 127, 6830-6835.	6.6	64
5	Single functional group interactions with individual carbon nanotubes. Nature Nanotechnology, 2007, 2, 692-697.	15.6	59
6	Hydroxyl-Rich β -Sheet Adhesion to the Gold Surface in Water by First-Principle Simulations. Journal of the American Chemical Society, 2010, 132, 4790-4795.	6.6	55
7	MoS ₂ Enhanced T-Phase Stabilization and Tunability Through Alloying. Journal of Physical Chemistry Letters, 2016, 7, 2304-2309.	2.1	54
8	Interaction of Water Molecules with SiC(001) Surfaces. Journal of Physical Chemistry B, 2004, 108, 16518-16524.	1.2	51
9	A New Theoretical Insight Into ZnO NWs Memristive Behavior. Nano Letters, 2016, 16, 2543-2547.	4.5	43
10	Fundamental Insights on Hydration Environment of Boric Acid and Its Role in Separation from Saline Water. Journal of Physical Chemistry C, 2020, 124, 1438-1445.	1.5	35
11	Combined experimental and theoretical investigation of the hemi-squaraine/TiO ₂ interface for dye sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 7198.	1.3	31
12	Doped ordered mesoporous carbons as novel, selective electrocatalysts for the reduction of nitrobenzene to aniline. Journal of Materials Chemistry A, 2018, 6, 13397-13411.	5.2	31
13	Electronic Effects in the IR Spectrum of Water under Confinement. Journal of Physical Chemistry B, 2009, 113, 4170-4175.	1.2	30
14	Mpemba-Like Behavior in Carbon Nanotube Resonators. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3907-3912.	1.1	30
15	Towards SiC surface functionalization: An ab initio study. Journal of Chemical Physics, 2005, 122, 214716.	1.2	28
16	Ab initio Study of Misfit Dislocations at the SiC/Si(001) Interface. Physical Review Letters, 2002, 89, 156101.	2.9	27
17	Structural and electronic properties of ZnO nanowires: a theoretical study. Energy Procedia, 2011, 10, 128-137.	1.8	27
18	Anomalous Dissipation in Single-Walled Carbon Nanotube Resonators. Nano Letters, 2009, 9, 3699-3703.	4.5	26

#	ARTICLE	IF	CITATIONS
37	Structure-property relations in amorphous carbon for photovoltaics. Applied Physics Letters, 2014, 105, 043903.	1.5	14
38	Boosted Solar Light Absorbance in PdS ₂ /PtS ₂ Vertical Heterostructures for Ultrathin Photovoltaic Devices. ACS Applied Materials & Interfaces, 2021, 13, 43615-43621.	4.0	14
39	Effect of nitrogen impurities on the physical properties of ZnO nanowires: First-principles study. Physical Review B, 2012, 85, .	1.1	13
40	Adhesion of single functional groups to individual carbon nanotubes: Electronic effects probed by ab initio calculations. Physical Review B, 2006, 74, .	1.1	12
41	Study of the oxidative half-reaction catalyzed by a non-heme ferrous catalytic center by means of structural and computational methodologies. International Journal of Quantum Chemistry, 2007, 107, 1514-1522.	1.0	12
42	Co-Adsorbent Effect on the Sensitization of TiO ₂ and ZnO Surfaces: A Theoretical Study. Journal of Physical Chemistry C, 2015, 119, 27348-27353.	1.5	11
43	Wetting behavior of low-index cubic SiC surfaces. Journal of Chemical Physics, 2006, 124, 024707.	1.2	10
44	First principles study of the initial stages of SiC growth on Si(001). Applied Physics Letters, 2001, 78, 2312-2314.	1.5	9
45	Does platinum play a role in the resistance switching of ZnO nanowire-based devices?. Solid State Ionics, 2017, 299, 93-95.	1.3	9
46	Tailoring the optical properties of MoS ₂ and WS ₂ single layers via organic functionalization. Journal of Physics Condensed Matter, 2019, 31, 235701.	0.7	8
47	Functionalization layer effect on the mechanical properties of silicon based micro-cantilever mass sensors: A theoretical study. Sensors and Actuators B: Chemical, 2014, 195, 177-180.	4.0	7
48	Unravelling electrocatalytic properties of metal porphyrin-like complexes hosted in graphene matrices. 2D Materials, 2020, 7, 025017.	2.0	7
49	Origin of the Accumulation Layer at the InN/a-In ₂ O ₃ Interface. ACS Applied Materials & Interfaces, 2015, 7, 5415-5419.	4.0	6
50	Spatially indirect excitons in black and blue phosphorene double layers. Physical Review Materials, 2020, 4, .	0.9	6
51	C adsorption and diffusion at the Si(0 0 1) surface: implications for SiC growth. Applied Surface Science, 2001, 184, 113-117.	3.1	4
52	Si(111) surface functionalized with H-bonded SAM: A theoretical study. Applied Surface Science, 2013, 267, 17-20.	3.1	4
53	Prediction of the structural and electronic properties of Mo _x /Ti _{1-x} S ₂ monolayers via first principle simulations. Nanomaterials and Nanotechnology, 2020, 10, 184798042095509.	1.2	4
54	Molecular dynamics study of the pore formation in single layer graphene oxide by a thermal reduction process. Physical Chemistry Chemical Physics, 2021, 23, 11831-11836.	1.3	4

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55	Nanostructured Bulk-Heterojunction Solar Cells Based on Amorphous Carbon. ACS Energy Letters, 2017, 2, 882-888.	8.8	3
56	Point Defects in Two-Dimensional Indium Selenide as Tunable Single-Photon Sources. Journal of Physical Chemistry Letters, 2021, 12, 10947-10952.	2.1	3
57	A molecular dynamics study of the $\text{SiC}/\text{Si}(001)$ interface. Journal of Physics Condensed Matter, 2002, 14, 13031-13036.	0.7	2
58	Scaling and spatial analysis of the dielectric response of cadmium selenide nanowires. Physical Review B, 2014, 90, .	1.1	1
59	Publisher's Note: Surface-induced polarity inversion in ZnO nanowires [Phys. Rev. B80, 201304(R) (2009)]. Physical Review B, 2010, 81, .	1.1	0
60	Ab Initio Simulations of Semiconductor Surfaces and Interfaces. Springer Handbooks, 2020, , 119-153.	0.3	0
61	Stability and Bandgap Engineering of $\text{In}_{1-x}\text{Ga}_x\text{Se}$ Monolayer. Nanomaterials, 2022, 12, 515.	1.9	0