Giancarlo Cicero

List of Publications by Year in Descending Order

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	Novel Insights into Sb-Cu Catalysts for Electrochemical Reduction of CO2. *Applied Catalysis B: Environmental*, **2022**, 306, 121089	21.8	6
58	Point Defects in Two-Dimensional Indium Selenide as Tunable Single-Photon Sources. *Journal of Physical Chemistry Letters*, **2021**, 12, 10947-10952	6.4	1
57	First-Principles Calculations of Exciton Radiative Lifetimes in Monolayer Graphitic Carbon Nitride Nanosheets: Implications for Photocatalysis. *ACS Applied Nano Materials*, **2021**, 4, 1985-1993	5.6	3
56	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	3.6	0
55	Boosted Solar Light Absorbance in PdS/PtS Vertical Heterostructures for Ultrathin Photovoltaic Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 43615-43621	9.5	1
54	Facilely synthesized nitrogen-doped reduced graphene oxide functionalized with copper ions as electrocatalyst for oxygen reduction. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	5
53	Unravelling electrocatalytic properties of metal porphyrin-like complexes hosted in graphene matrices. *2D Materials*, **2020**, 7, 025017	5.9	5
52	Spatially indirect excitons in black and blue phosphorene double layers. *Physical Review Materials*, **2020**, 4,	3.2	4
51	Ab Initio Simulations of Semiconductor Surfaces and Interfaces. *Springer Handbooks*, **2020**, 119-153	1.3	
50	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	3.8	17
49	Microwave-Assisted Synthesis of Copper-Based Electrocatalysts for Converting Carbon Dioxide to Tunable Syngas. *ChemElectroChem*, **2020**, 7, 229-238	4.3	16
48	Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. *ACS Applied Materials & Interfaces*, **2020**, 12, 48773-48780	9.5	13
47	Prediction of the structural and electronic properties of MoxTi1⊠S2 monolayers via first principle simulations. *Nanomaterials and Nanotechnology*, **2020**, 10, 184798042095509	2.9	2
46	Proving the existence of Mn porphyrin-like complexes hosted in reduced graphene oxide with outstanding performance as oxygen reduction reaction catalysts. *2D Materials*, **2019**, 6, 045001	5.9	11
45	Tailoring the optical properties of MoS and WS single layers via organic functionalization. *Journal of Physics Condensed Matter*, **2019**, 31, 235701	1.8	6
44	Controlled Pore Generation in Single-Layer Graphene Oxide for Membrane Desalination. *Journal of Physical Chemistry Letters*, **2019**, 10, 7492-7497	6.4	11
43	Unveiling the Fundamental Role of Temperature in RRAM Switching Mechanism by Multiscale Simulations. *ACS Applied Materials & Interfaces*, **2018**, 10, 7512-7519	9.5	6

42	Unravelling Some of the Structure-Property Relationships in Graphene Oxide at Low Degree of Oxidation. *Journal of Physical Chemistry Letters*, **2018**, 9, 1746-1749	6.4	20
41	Doped ordered mesoporous carbons as novel, selective electrocatalysts for the reduction of nitrobenzene to aniline. *Journal of Materials Chemistry A*, **2018**, 6, 13397-13411	13	14
40	Theoretical Study of Nanoporous Graphene Membranes for Natural Gas Purification. *Applied Sciences (Switzerland)*, **2018**, 8, 1547	2.6	13
39	Nanostructured Bulk-Heterojunction Solar Cells Based on Amorphous Carbon. *ACS Energy Letters*, **2017**, 2, 882-888	20.1	2
38	Does platinum play a role in the resistance switching of ZnO nanowire-based devices?. *Solid State Ionics*, **2017**, 299, 93-95	3.3	7
37	NO2 Gas Sensing Mechanism of ZnO Thin-Film Transducers: Physical Experiment and Theoretical Correlation Study. *ACS Sensors*, **2016**, 1, 406-412	9.2	47
36	A New Theoretical Insight Into ZnO NWs Memristive Behavior. *Nano Letters*, **2016**, 16, 2543-7	11.5	38
35	MoS2 Enhanced T-Phase Stabilization and Tunability Through Alloying. *Journal of Physical Chemistry Letters*, **2016**, 7, 2304-9	6.4	48
34	Co-Adsorbent Effect on the Sensitization of TiO2 and ZnO Surfaces: A Theoretical Study. *Journal of Physical Chemistry C*, **2015**, 119, 27348-27353	3.8	11
33	Origin of the accumulation layer at the InN/a-In2O3 interface. *ACS Applied Materials & Interfaces*, **2015**, 7, 5415-9	9.5	5
32	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	8.5	6
31	Scaling and spatial analysis of the dielectric response of cadmium selenide nanowires. *Physical Review B*, **2014**, 90,	3.3	1
30	Structure-property relations in amorphous carbon for photovoltaics. *Applied Physics Letters*, **2014**, 105, 043903	3.4	9
29	First principles description of the electronic properties of doped ZnO. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2106-2109	1.3	15
28	Si(1 1 1) surface functionalized with H-bonded SAM: A theoretical study. *Applied Surface Science*, **2013**, 267, 17-20	6.7	4
27	Combined experimental and theoretical investigation of the hemi-squaraine/TiO2 interface for dye sensitized solar cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 7198-203	3.6	30
26	Effect of nitrogen impurities on the physical properties of ZnO nanowires: First-principles study. *Physical Review B*, **2012**, 85,	3.3	13
25	Structural and electronic properties of ZnO nanowires: a theoretical study. *Energy Procedia*, **2011**, 10, 128-137	2.3	25

24	Mpemba-Like Behavior in Carbon Nanotube Resonators. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 3907-3912	2.3	19
23	Characterization of amorphous In2O3: An ab initio molecular dynamics study. *Applied Physics Letters*, **2011**, 99, 211913	3.4	15
22	Structural and Electronic Properties of the Methyl-Terminated Si(111) Surface. *Journal of Physical Chemistry C*, **2010**, 114, 11898-11902	3.8	14
21	Hydroxyl-rich beta-sheet adhesion to the gold surface in water by first-principle simulations. *Journal of the American Chemical Society*, **2010**, 132, 4790-5	16.4	54
20	Anomalous dissipation in single-walled carbon nanotube resonators. *Nano Letters*, **2009**, 9, 3699-703	11.5	22
19	Electronic effects in the IR spectrum of water under confinement. *Journal of Physical Chemistry B*, **2009**, 113, 4170-5	3.4	28
18	Surface-induced polarity inversion in ZnO nanowires. *Physical Review B*, **2009**, 80,	3.3	22
17	Water confined in nanotubes and between graphene sheets: a first principle study. *Journal of the American Chemical Society*, **2008**, 130, 1871-8	16.4	353
16	Adsorption-induced surface stresses in alkanethiolate-au self-assembled monolayers. *Physical Review Letters*, **2008**, 101, 185504	7.4	24
15	Single functional group interactions with individual carbon nanotubes. *Nature Nanotechnology*, **2007**, 2, 692-7	28.7	55
14	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	2.1	11
13	Modifications of cubic SiC surfaces studied byab initiosimulations: from gas adsorption to organic functionalization. *Journal Physics D: Applied Physics*, **2007**, 40, 6215-6224	3	16
12	Polarization properties of (11□00) and (112□0) SiC surfaces from first principles. *Physical Review B*, **2007**, 76,	3.3	24
11	Wetting behavior of low-index cubic SiC surfaces. *Journal of Chemical Physics*, **2006**, 124, 024707	3.9	8
10	Adhesion of single functional groups to individual carbon nanotubes: Electronic effects probed by ab initio calculations. *Physical Review B*, **2006**, 74,	3.3	11
9	A theoretical study of biotin chemisorption on Si-SiC(001) surfaces. *Journal of Physical Chemistry B*, **2005**, 109, 13656-62	3.4	19
8	Water at a hydrophilic solid surface probed by ab initio molecular dynamics: inhomogeneous thin layers of dense fluid. *Journal of the American Chemical Society*, **2005**, 127, 6830-5	16.4	58
7	Towards SiC surface functionalization: an ab initio study. *Journal of Chemical Physics*, **2005**, 122, 214716	3.9	23

6	Atomic control of water interaction with biocompatible surfaces: the case of SiC(001). *Physical Review Letters*, **2004**, 93, 016102	7.4	100
5	Interaction of Water Molecules with SiC(001) Surfaces. *Journal of Physical Chemistry B*, **2004**, 108, 16518-16524	3.4	48
4	Ab initio study of misfit dislocations at the SiC/Si(001) interface. *Physical Review Letters*, **2002**, 89, 156101	7.4	27
3	A molecular dynamics study of the □SiC/Si(001) interface. *Journal of Physics Condensed Matter*, **2002**, 14, 13031-13036	1.8	2
2	C adsorption and diffusion at the Si(0 0 1) surface: implications for SiC growth. *Applied Surface Science*, **2001**, 184, 113-117	6.7	4
1	First principles study of the initial stages of SiC growth on Si(001). *Applied Physics Letters*, **2001**, 78, 2312-2314	3.4	8