Matteo Baldoni

List of Publications by Year
in descending order

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27 papers	590 citations	623574 14 h-index	610775 24 g-index
27 all docs	27 docs citations	27 times ranked	1109 citing authors

#	Article	IF	Citations
1	A Molecular Drone for Atomicâ€Scale Fabrication Working under Ambient Conditions. Advanced Materials, 2021, 33, e2007150.	11.1	5
2	Stiffness of Fluid and Gel Phase Lipid Nanovesicles: Weighting the Contributions of Membrane Bending Modulus and Luminal Pressurization. Langmuir, 2021, 37, 12027-12037.	1.6	10
3	Noncovalent passivation of supported phosphorene for device applications: from morphology to electronic properties. Physical Chemistry Chemical Physics, 2020, 22, 12482-12488.	1.3	6
4	Low dimensional nanostructures of fast ion conducting lithium nitride. Nature Communications, 2020, 11, 4492.	5.8	19
5	Epitaxial multilayers of alkanes on two-dimensional black phosphorus as passivating and electrically insulating nanostructures. Nanoscale, 2019, 11, 17252-17261.	2.8	13
6	Ordering, flexibility and frustration in arrays of porphyrin nanorings. Nature Communications, 2019, 10, 2932.	5.8	16
7	Steric and Electronic Control of 1,3-Dipolar Cycloaddition Reactions in Carbon Nanotube Nanoreactors. Journal of Physical Chemistry C, 2019, 123, 6294-6302.	1.5	13
8	Synthesis and characterisation of rylene diimide dimers using molecular handcuffs. Chemical Science, 2019, 10, 3723-3732.	3.7	28
9	Adsorption of Hexacontane on Hexagonal Boron Nitride. Journal of Physical Chemistry C, 2018, 122, 27575-27581.	1.5	9
10	Spatial and orientational dependence of electron transfer parameters in aggregates of iridium-containing host materials for OLEDs: coupling constrained density functional theory with molecular dynamics. Physical Chemistry Chemical Physics, 2018, 20, 28393-28399.	1.3	8
11	Supramolecular heterostructures formed by sequential epitaxial deposition of two-dimensional hydrogen-bonded arrays. Nature Chemistry, 2017, 9, 1191-1197.	6.6	79
12	Reaction kinetics of bond rotations in graphene. Carbon, 2016, 105, 176-182.	5.4	18
13	Dynamic Behavior of Single Fe Atoms Embedded in Graphene. Journal of Physical Chemistry C, 2016, 120, 21998-22003.	1.5	25
14	Direct Measurement of Electron Transfer in Nanoscale Hostâ€“Guest Systems: Metallocenes in Carbon Nanotubes. Chemistry - A European Journal, 2016, 22, 13540-13549.	1.7	18
15	Evidence of benzenoid domains in nanographenes. Physical Chemistry Chemical Physics, 2015, 17, 2088-2093.	1.3	6
16	Adsorbate-Induced Curvature and Stiffening of Graphene. Nano Letters, 2015, 15, 159-164.	4.5	24
17	A two-electron mechanism of lithium insertion into layered Î±-MoO₃: a DFT and DFT+U study. Journal of Materials Chemistry A, 2013, 1, 1778-1784.	5.2	46
18	Optimizing Electronic Structure and Quantum Transport at the Graphene-Si(111) Interface: AnAbÂInitioDensity-Functional Study. Physical Review Letters, 2013, 110, 176805.	2.9	23

#	Article	IF	Citations
19	Materials for Lithium Ion Batteries: Challenges for Numerical Simulations. Zeitschrift Fur Physikalische Chemie, 2012, 226, 95-106.	1.4	4
20	Materials for Lithium Ion Batteries: Challenges for Numerical Simulations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1555-1555.	0.6	0
21	Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. Nanoscale, 2012, 4, 369-379.	2.8	27
22	Redox-switchable devices based on functionalized graphene nanoribbons. Nanoscale, 2012, 4, 1350.	2.8	12
23	Chapter 8. Theoretical Strategies for Functionalisation and Encapsulation of Nanotubes. RSC Theoretical and Computational Chemistry Series, 2011, , 225-278.	0.7	0
24	Unraveling the Reactivity of Semiconducting Chiral Carbon Nanotubes through Finite-Length Models Based on Clar Sextet Theory. Journal of Physical Chemistry C, 2009, 113, 862-866.	1.5	26
25	Electronic properties and stability of graphene nanoribbons: An interpretation based on Clar sextet theory. Chemical Physics Letters, 2008, 464, 202-207.	1.2	81
26	Finite-Length Models of Carbon Nanotubes Based on Clar Sextet Theory. Organic Letters, 2007, 9, 4267-4270.	2.4	53
27	Formation, Structure, and Polymorphism of Novel Lowestâ€Dimensional AgI Nanoaggregates by Encapsulation in Carbon Nanotubes. Small, 2007, 3, 1730-1734.	5.2	21