Mario S C Mazzoni

List of Publications by Year
in descending order

58	3,112	304368	149479
papers	citations	22 h-index	56 g-index

58	58	58	3859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Special Case of the Spectral Emission of a Tb³⁺ Mono Metal Complex. ChemPhysChem, 2022, 23, .	1.0	1
2	Electronic Band Tuning and Multivalley Raman Scattering in Monolayer Transition Metal Dichalcogenides at High Pressures. ACS Nano, 2022, 16, 8064-8075.	7.3	13
3	Hard, transparent, sp3-containing 2D phase formed from few-layer graphene under compression. Carbon, 2021, 173, 744-757.	5.4	31
4	Effects of dimensionality and excitation energy on the Raman tensors of triclinic ReSe₂. Journal of Raman Spectroscopy, 2021, 52, 2068-2080.	1.2	5
5	Interplay between structural deformations and flat band phenomenology in twisted bilayer antimonene. RSC Advances, 2021, 11, 27855-27859.	1.7	2
6	Origin of the complex Raman tensor elements in single-layer triclinic ReSe2. 2D Materials, 2021, 8, 025002.	2.0	12
7	Electromechanical Modulations in Transition Metal Dichalcogenide Nanosheets: Implications for Environmental Sensors. ACS Applied Nano Materials, 2021, 4, 11305-11311.	2.4	2
8	Covalently Linked Porphyrins as One-Dimensional Conductors. Journal of Physical Chemistry Letters, 2021, 12, 10788-10792.	2.1	1
9	Oxidation-driven formation of precisely ordered antimonene nanoribbons. Journal of Physics Condensed Matter, 2020, 32, 165302.	0.7	1
10	All-perylene-derivative for white light emitting diodes. Physical Chemistry Chemical Physics, 2020, 22, 20744-20750.	1.3	5
11	Oxygen intercalated graphene on SiC(0001): Multiphase SiOx layer formation and its influence on graphene electronic properties. Carbon, 2020, 167, 746-759.	5.4	9
12	Bi₂:Bi₂Te₃ stacking influence on the surface electronic response of the topological insulator Bi₄Te₃. Electronic Structure, 2020, 2, 015002.	1.0	8
13	Graphene/h-BN heterostructures under pressure: From van der Waals to covalent. Carbon, 2019, 155, 108-113.	5.4	20
14	Formation of Bi_xSe_y Phases Upon Annealing of the Topological Insulator Bi₂Se₃: Stabilization of In-Depth Bismuth Bilayers. Journal of Physical Chemistry Letters, 2018, 9, 954-960.	2.1	10
15	Compression-Induced Modification of Boron Nitride Layers: A Conductive Two-Dimensional BN Compound. ACS Nano, 2018, 12, 5866-5872.	7.3	23
16	Thionine Self-Assembled Structures on Graphene: Formation, Organization, and Doping. Langmuir, 2018, 34, 6903-6911.	1.6	11
17	Raman evidence for pressure-induced formation of diamondene. Nature Communications, 2017, 8, 96.	5.8	132
18	Quantitative measurement of manganese incorporation into (In,Mn)As islands by resonant x-ray scattering. Physical Review B, 2017, 96, .	1.1	2

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19	Two-dimensional semiconductors: The case of silver thiolates. Applied Physics Letters, 2016, 109, .	1.5	8
20	Room temperature observation of the correlation between atomic and electronic structure of graphene on Cu(110). RSC Advances, 2016, 6, 98001-98009.	1.7	2
21	Charge transfer between carbon nanotubes on surfaces. Nanoscale, 2015, 7, 16175-16181.	2.8	2
22	Spontaneous Formation of O₈ Clusters and Chains within Nanostructures. Journal of Physical Chemistry C, 2014, 118, 24741-24745.	1.5	2
23	Grapheneâ€“boron nitride superlattices: the role of point defects at the BN layer. Nanotechnology, 2014, 25, 165705.	1.3	17
24	Chemical Stabilization and Improved Thermal Resilience of Molecular Arrangements: Possible Formation of a Surface Network of Bonds by Multiple Pulse Atomic Layer Deposition. Journal of Physical Chemistry B, 2014, 118, 9792-9799.	1.2	4
25	Asymmetric Effect of Oxygen Adsorption on Electron and Hole Mobilities in Bilayer Graphene: Long- and Short-Range Scattering Mechanisms. ACS Nano, 2013, 7, 6597-6604.	7.3	34
26	Temperature-Induced Coexistence of a Conducting Bilayer and the Bulk-Terminated Surface of the Topological Insulator Bi₂Te₃. Nano Letters, 2013, 13, 4517-4521.	4.5	33
27	Metastable phase formation and structural evolution of epitaxial graphene grown on SiC(100) under a temperature gradient. Nanotechnology, 2012, 23, 175603.	1.3	3
28	Thermal Stability and Ordering Study of Long- and Short-Alkyl Chain Phosphonic Acid Multilayers. Langmuir, 2012, 28, 15124-15133.	1.6	18
29	Knots in a graphene nanoribbon. Physical Review B, 2012, 85, .	1.1	18
30	Anomalous response of supported few-layer hexagonal boron nitride to DC electric fields: a confined water effect?. Nanotechnology, 2012, 23, 175703.	1.3	16
31	Nanometrological porphyrins. Nanotechnology, 2012, 23, 275504.	1.3	7
32	Edge States and Half-Metallicity in TiO₂ Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 18047-18050.	1.5	3
33	Two-Dimensional Molecular Crystals of Phosphonic Acids on Graphene. ACS Nano, 2011, 5, 394-398.	7.3	43
34	Roomâ€Temperature Compressionâ€Induced Diamondization of Fewâ€Layer Graphene. Advanced Materials, 2011, 23, 3014-3017.	11.1	124
35	First-principles investigation of electrochemical properties of gold nanoparticles. Nanotechnology, 2010, 21, 065705.	1.3	18
36	Bistability, softening, and quenching of magnetic moments in Ni-filled carbon nanotubes. Physical Review B, 2010, 81, .	1.1	14

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37	Modulating the Electronic Properties along Carbon Nanotubes via Tubeâ"Substrate Interaction. Nano Letters, 2010, 10, 5043-5048.	4.5	49
38	Group-theory analysis of electrons and phonons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-layer graphene systems. Physical Review B, 2009, 79, .	1.1	154
39	Toxins by first-principles: Electronic structure mapping structural changes. Computational and Theoretical Chemistry, 2008, 853, 58-61.	1.5	2
40	Deformation Induced Semiconductor-Metal Transition in Single Wall Carbon Nanotubes Probed by Electric Force Microscopy. Physical Review Letters, 2008, 100, 256804.	2.9	62
41	Edge States and Magnetism in Carbon Nanotubes with Line Defects. Physical Review Letters, 2008, 100, 146801.	2.9	27
42	Boron nitride fullereneB36N36doped with transition metal atoms: First-principles calculations. Physical Review B, 2007, 75, .	1.1	32
43	Porous nanotubes and fullerenes based on covalent organic frameworks. Chemical Physics Letters, 2007, 449, 171-174.	1.2	10
44	Electronic structure and energetics ofBxCyNzlayered structures. Physical Review B, 2006, 73, .	1.1	130
45	Electron States in a Lattice of Au Nanoparticles: The Role of Strain and Functionalization. Physical Review Letters, 2006, 96, 116802.	2.9	15
46	A theoretical study of the stability trends of boron nitride fullerenes. Chemical Physics Letters, 2006, 421, 246-250.	1.2	29
47	First-principles investigation of Au-covered carbon fullerenes. Physical Review B, 2005, 72, .	1.1	12
48	Stability of antiphase line defects in nanometer-sized boron nitride cones. Physical Review B, 2004, 70, .	1.1	64
49	Tuning the electronic properties of boron nitride nanotubes with transverse electric fields: A giant dc Stark effect. Physical Review B, 2004, 69, .	1.1	256
50	Electron states in boron nitride nanocones. Applied Physics Letters, 2003, 82, 2323-2325.	1.5	45
51	Quantum conductance of carbon nanotube peapods. Applied Physics Letters, 2003, 83, 5217-5219.	1.5	22
52	Structural Deformation and Intertube Conductance of Crossed Carbon Nanotube Junctions. Physical Review Letters, 2001, 86, 688-691.	2.9	98
53	Bandgap closure of a flattened semiconductor carbon nanotube: A first-principles study. Applied Physics Letters, 2000, 76, 1561-1563.	1.5	94
54	Atomic restructuring and localized electron states in a bent carbon nanotube: A first-principles study. Physical Review B, 2000, 61, 7312-7315.	1.1	33

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55	Crossed Nanotube Junctions. Science, 2000, 288, 494-497.	6.0	1,135
56	Energetics of the oxidation and opening of a carbon nanotube. Physical Review B, 1999, 60, R2208-R2211.	1.1	69
57	Stability, geometry, and electronic structure of the boron nitride B36N36 fullerene. Applied Physics Letters, 1999, 75, 61-63.	1.5	119
58	Use of the DX center as a probe to study the profile of Si impurities in planarâ€doped GaAs. Journal of Applied Physics, 1995, 77, 3283-3287.	1.1	1