Luca Bignardi

List of Publications by Year
in descending order

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46	694	567247	610883
papers	citations	15 h-index	24 g-index

48	48	48	1443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparing Graphene Growth on Cu(111) versus Oxidized Cu(111). Nano Letters, 2015, 15, 917-922.	9.1	107
2	Epitaxial growth of single-orientation high-quality MoS ₂ monolayers. 2D Materials, 2018, 5, 035012.	4.4	65
3	Novel single-layer vanadium sulphide phases. 2D Materials, 2018, 5, 045009.	4.4	48
4	Spin Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math> Valleys in Single-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></</m on Au(111). Physical Review Letters, 2018, 121, 136402.	7.8	28
5	Free surfaces recast superconductivity in few-monolayer MgB2: Combined first-principles and ARPES demonstration. Scientific Reports, 2017, 7, 14458.	3.3	27
6	80% Valley Polarization of Free Carriers in Singly Oriented Single-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></</m on Au(111). Physical Review Letters, 2019, 123, 236802.	7.8	27
7	Key role of rotated domains in oxygen intercalation at graphene on Ni(1â€‰1â€‰1). 2D Materials, 2017, 4, 025106.	4.4	26
8	Strain Lattice Imprinting in Graphene by C₆₀ Intercalation at the Graphene/Cu Interface. Nano Letters, 2015, 15, 7421-7430.	9.1	25
9	Exciting H₂ Molecules for Graphene Functionalization. ACS Nano, 2018, 12, 513-520.	14.6	24
10	Spin-dependent electron-phonon coupling in the valence band of single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2017, 96, .	3.2	22
11	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). Surface Science, 2018, 678, 57-64.	1.9	18
12	Growth and structure of singly oriented single-layer tungsten disulfide on Au(111). Physical Review Materials, 2019, 3, .	2.4	18
13	Graphene growth by molecular beam epitaxy: an interplay between desorption, diffusion and intercalation of elemental C species on islands. Nanoscale, 2018, 10, 7396-7406.	5.6	17
14	Facing the interaction of adsorbed silicon nano-ribbons on silver. Nanotechnology, 2017, 28, 455701.	2.6	16
15	Nature of the surface states at the single-layer graphene/Cu(111) and graphene/polycrystalline-Cu interfaces. Physical Review B, 2015, 91, .	3.2	15
16	Thermolubricity of gas monolayers on graphene. Nanoscale, 2014, 6, 8062.	5.6	13
17	The adsorption of silicon on an iridium surface ruling out silicene growth. Nanoscale, 2018, 10, 7085-7094.	5.6	13
18	Ultrafast electronic linewidth broadening in the C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:n core level of graphene. Physical Review B, 2021, 104, .	3.2	13

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19	Momentum-resolved linear dichroism in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2019, 100, .	3.2	12
20	Layer and orbital interference effects in photoemission from transition metal dichalcogenides. Physical Review B, 2019, 100, .	3.2	11
21	Hot electron transmission in metals using epitaxial NiSi2/n-Si(111) interfaces. Applied Physics Letters, 2011, 99, 032104.	3.3	10
22	Microscopic characterisation of suspended graphene grown by chemical vapour deposition. Nanoscale, 2013, 5, 9057.	5.6	10
23	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. Journal of Electron Spectroscopy and Related Phenomena, 2021, 250, 147093.	1.7	9
24	Metal phthalocyanines interaction with Co mediated by a moirÃ© graphene superlattice. Journal of Chemical Physics, 2019, 150, 054704.	3.0	8
25	Dual-Route Hydrogenation of the Graphene/Ni Interface. ACS Nano, 2019, 13, 1828-1838.	14.6	8
26	Comparison of hot-electron transmission in ferromagnetic Ni on epitaxial and polycrystalline Schottky interfaces. Physical Review B, 2012, 85, .	3.2	7
27	Dual character of excited charge carriers in graphene on Ni(111). Physical Review B, 2014, 89, .	3.2	7
28	A first-principles study of stability of surface confined mixed metal oxides with corundum structure (Fe2O3, Cr2O3, V2O3). Physical Chemistry Chemical Physics, 2018, 20, 7073-7081.	2.8	7
29	Electronâ€“phonon coupling in single-layer MoS2. Surface Science, 2019, 681, 64-69.	1.9	7
30	Interfacial two-dimensional oxide enhances photocatalytic activity of graphene/titania via electronic structure modification. Carbon, 2020, 157, 350-357.	10.3	7
31	Local order and non-linear optical properties in bulk nanostructured niobiosilicate glasses. Journal of Non-Crystalline Solids, 2011, 357, 1218-1222.	3.1	6
32	Combined Experimental and Theoretical Study of Methyl Acetoacetate Adsorption on Ni{100}. Journal of Physical Chemistry C, 2018, 122, 6186-6194.	3.1	6
33	Hydrogen interaction with graphene on Ir(1â€‰1â€‰1): a combined intercalation and functionalization study. Journal of Physics Condensed Matter, 2019, 31, 085001.	1.8	6
34	Final-state effects in photoemission experiments from graphene on Ni(111). European Physical Journal B, 2013, 86, 1.	1.5	5
35	Periodic Modulation of Graphene by a 2D-FeO/Ir(111) MoirÃ© Interlayer. Journal of Physical Chemistry C, 2017, 121, 2762-2770.	3.1	5
36	Comparison of surface structures of corundum Cr₂O₃(0â€‰0â€‰0â€‰1) and V₂O₃(0â€‰0â€‰0â€‰1) ultrathin films by x-ray photoelectron diffraction. Journal of Physics Condensed Matter, 2018, 30, 074002.	1.8	5

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37	Anisotropic strain in epitaxial single-layer molybdenum disulfide on Ag(110). Nanoscale, 2021, 13, 18789-18798.	5.6	5
38	An Ordered Mixed Oxide Monolayer Formed by Iron Segregation on Rutile-TiO₂(011): Structural Determination by X-ray Photoelectron Diffraction. Journal of Physical Chemistry C, 2016, 120, 26414-26424.	3.1	4
39	Growth Mechanism and Thermal Stability of a MoS₂â€“Graphene Interface: A High-Resolution Core-Level Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2020, 124, 20889-20897.	3.1	4
40	In Situ Synthesis of Metalâ€“Salophene Complexes on Intercalated Graphene. Journal of Physical Chemistry C, 2020, 124, 4279-4287.	3.1	4
41	Unusual reversibility in molecular break-up of PAHs: the case of pentacene dehydrogenation on Ir(111). Chemical Science, 2021, 12, 170-178.	7.4	4
42	Atomic Undercoordination in Ag Islands on Ru(0001) Grown via Size-Selected Cluster Deposition: An Experimental and Theoretical High-Resolution Core-Level Photoemission Study. Journal of Physical Chemistry C, 2021, 125, 9556-9563.	3.1	4
43	Thiolate end-group regulates ligand arrangement, hydration and affinity for small compounds in monolayer-protected gold nanoparticles. Journal of Colloid and Interface Science, 2022, 607, 1373-1381.	9.4	4
44	Electron dynamics in unoccupied states of spatially aligned 7-a graphene nanoribbons on Au(788). Physical Review B, 2014, 90, .	3.2	3
45	Surface states resonances at the single-layer graphene/Cu(111) interface. Surface Science, 2016, 643, 210-213.	1.9	2
46	Vibrational Fine Structure in C 1s High-Resolution Core-Level Spectra of CO Chemisorbed on Ir(111). Journal of Physical Chemistry C, 2022, 126, 1411-1419.	3.1	2