

Roberto Biagi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metal Work-Function Changes Induced by Organic Adsorbates: A Combined Experimental and Theoretical Study. <i>Physical Review Letters</i> , 2005, 95, 046804.	7.8	196
2	Direct Observation of Single-Molecule Magnets Organized on Gold Surfaces. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1645-1648.	13.8	190
3	Surface Supramolecular Organization of a Terbium(III) Double-Decker Complex on Graphite and its Single Molecule Magnet Behavior. <i>Journal of the American Chemical Society</i> , 2011, 133, 6603-6612.	13.7	189
4	Localized and Dispersive Electronic States at Ordered FePc and CoPc Chains on Au(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 21638-21644.	3.1	91
5	Isolated single-molecule magnets on native gold. <i>Chemical Communications</i> , 2005, , 1640.	4.1	86
6	Ordered (3 Å– 4) High-Density Phase of Methylthiolate on Au(111). <i>Journal of Physical Chemistry B</i> , 2004, 108, 16-20.	2.6	79
7	Isolated Mn ₁₂ Single-Molecule Magnets Grafted on Gold Surfaces via Electrostatic Interactions. <i>Inorganic Chemistry</i> , 2005, 44, 7693-7695.	4.0	72
8	Spin and orbital configuration of metal phthalocyanine chains assembled on the Au(110) surface. <i>Physical Review B</i> , 2013, 87, .	3.2	67
9	Lateral Fusion of Chemical Vapor Deposited <i>N</i> = 5 Armchair Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 9483-9486.	13.7	65
10	Interfacial Electrostatics of Self-Assembled Monolayers of Alkane Thiolates on Au(111): Work Function Modification and Molecular Level Alignments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10862-10872.	2.6	57
11	Successful grafting of isolated molecular Cr_7Ni on Au(111) surface. <i>Physical Review B</i> , 2009, 79, .	3.2	49
12	Self-Assembled Monolayer of Cr ₇ Ni Molecular Nanomagnets by Sublimation. <i>ACS Nano</i> , 2011, 5, 7090-7099.	14.6	42
13	Very Low Energy Vibrational Modes as a Fingerprint of H-Bond Network Formation: Cysteine on Au(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 14439-14445.	3.1	38
14	Isolated Heterometallic Cr ₇ Ni Rings Grafted on Au(111) Surface. <i>Inorganic Chemistry</i> , 2007, 46, 4937-4943.	4.0	36
15	Antiferromagnetic coupling of TbPc ₂ molecules to ultrathin Ni and Co films. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 320-324.	2.8	36
16	Ferromagnetic Exchange Coupling between Fe Phthalocyanine and Ni(111) Surface Mediated by the Extended States of Graphene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17670-17676.	3.1	36
17	Valence band resonant photoemission of Mn ₁₂ single molecules grafted on Au(111) surface. <i>Surface Science</i> , 2006, 600, 4185-4189.	1.9	35
18	Grafting Derivatives of Mn ₆ Single-Molecule Magnets with High Anisotropy Energy Barrier on Au(111) Surface. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9729-9735.	2.6	35

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19	Magnetic Cooling at a Single Molecule Level: a Spectroscopic Investigation of Isolated Molecules on a Surface. <i>Advanced Materials</i> , 2013, 25, 2816-2820.	21.0	32
20	X-ray absorption and magnetic circular dichroism investigation of bis(phthalocyaninato)terbium single-molecule magnets deposited on graphite. <i>Physical Review B</i> , 2010, 82, .	3.2	31
21	Spin-communication channels between Ln(III) bis-phthalocyanines molecular nanomagnets and a magnetic substrate. <i>Scientific Reports</i> , 2016, 6, 21740.	3.3	30
22	Grafting molecular Cr ₇ Ni rings on a gold surface. <i>Dalton Transactions</i> , 2010, 39, 4928.	3.3	28
23	Magnetic Anisotropy of Cr ₇ Ni Spin Clusters on Surfaces. <i>Advanced Functional Materials</i> , 2012, 22, 3706-3713.	14.9	28
24	Structural Phases of Ordered FePc-Nanochains Self-Assembled on Au(110). <i>Langmuir</i> , 2012, 28, 13232-13240.	3.5	26
25	Relay-Like Exchange Mechanism through a Spin Radical between TbPc ₂ Molecules and Graphene/Ni(111) Substrates. <i>ACS Nano</i> , 2016, 10, 9353-9360.	14.6	26
26	Addressing the magnetic properties of sub-monolayers of single-molecule magnets by X-ray magnetic circular dichroism. <i>Nanoscale</i> , 2010, 2, 2698.	5.6	25
27	Probing magnetic coupling between LnPc ₂ (Ln = Tb, Er) molecules and the graphene/Ni (111) substrate with and without Au-intercalation: role of the dipolar field. <i>Nanoscale</i> , 2018, 10, 277-283.	5.6	25
28	Electronic and Magnetic Properties of Mn ₁₂ Molecular Magnets on Sulfonate and Carboxylic Acid Prefunctionalized Gold Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14936-14942.	3.1	24
29	Electronic structure of aMn ₆ (S=4)single molecule magnet grafted on Au(111). <i>Physical Review B</i> , 2008, 77, .	3.2	23
30	Cesium-induced electronic states and space-charge-layer formation in Cs/InSb(110) interface. <i>Physical Review B</i> , 1996, 53, 13605-13612.	3.2	21
31	Acetylene adsorption on theSi(111)̂ ⁷ (7̂-7)surface: Ultraviolet photoemission and high-resolution electron-energy-loss spectroscopies. <i>Physical Review B</i> , 2001, 64, .	3.2	21
32	HREELS study of the adsorption mechanism and orientational order of 2-mercaptobenzoxazole on Cu(100). <i>Surface Science</i> , 2003, 539, 63-71.	1.9	21
33	Study of the transition from the ideal Si(111)̂ ^H (1̂-1) surface to the (7̂-7) reconstruction by HREELS, UPS and LEED. <i>Surface Science</i> , 2002, 497, 247-253.	1.9	19
34	X-ray magnetic circular dichroism investigation of spin and orbital moments inCr ₈ andCr ₇ Niantiferromagnetic rings. <i>Physical Review B</i> , 2008, 77, .	3.2	19
35	Probing optical excitations in chevron-like armchair graphene nanoribbons. <i>Nanoscale</i> , 2017, 9, 18326-18333.	5.6	19
36	HREELS investigation of hydrogenated GaAs(110) surfaces. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 6613-6622.	1.8	18

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37	Graphite-epoxy composites for fuel-cell bipolar plates: Wet vs dry mixing and role of the design of experiment in the optimization of molding parameters. International Journal of Hydrogen Energy, 2021, 46, 4407-4416.	7.1	17
38	Self-assembling of Mn ₁₂ molecular nanomagnets on FIB-patterned Au dot matrix. Surface Science, 2007, 601, 2618-2622.	1.9	16
39	Probing local magnetization in molecular heterometallic Cr_2Mn_2 . Physical Review B, 2010, 82, .	3.2	15
40	Electronic and Magnetic Study of Polycationic Mn ₁₂ Single-Molecule Magnets with a Ground Spin State S = 11. Inorganic Chemistry, 2010, 49, 386-396.	4.0	15
41	Quasi-Two-Dimensional Electron Gas at Submonolayer Coverages of Cs on InSb(110). Europhysics Letters, 1995, 32, 235-240.	2.0	14
42	Oxo-centered carboxylate-bridged trinuclear complexes deposited on Au(111) by a mass-selective electrospray. New Journal of Chemistry, 2011, 35, 1683.	2.8	12
43	Hole-plasmon damping on heavily doped p-type GaAs(110). Physical Review B, 1992, 46, 2467-2472.	3.2	11
44	Two-dimensional versus three-dimensional behavior of a free-carrier gas in $\hat{\Gamma}$ -doped p-type GaAs(001). Physical Review B, 1994, 50, 7573-7581.	3.2	11
45	Magnetic and entanglement properties of molecular Cr ₂ Ni ₂ heterometallic spin rings. Physical Review B, 2012, 86, .	3.2	11
46	Nitrocatechol/ZnO Interface: The Role of Dipole in a Dye/Metal-Oxide Model System. Journal of Physical Chemistry C, 2014, 118, 3910-3917.	3.1	10
47	Investigation of the plasmon excitation on heavily doped p-type GaAs(110) surface. Applied Surface Science, 1992, 56-58, 44-49.	6.1	8
48	Space-charge layer, metallization, and collective excitations of the Bi/GaAs(110) interface. Physical Review B, 1994, 49, 8198-8205.	3.2	8
49	Evaluation of alkali-induced band-bending inhomogeneity and charge transfer trend from core-level analysis. Physical Review B, 2000, 62, R10657-R10660.	3.2	8
50	Charge accumulation layer induced by potassium adsorption on hydrogen terminated Si(111)($1\bar{1}$ -1). Surface Science, 1998, 402-404, 547-550.	1.9	7
51	Temperature dependence of acetylene adsorption and reaction on Si(1 1 1)-($7\bar{7}$ -7). Applied Surface Science, 2001, 184, 90-95.	6.1	7
52	Ordered phases and temperature behaviour of CH ₃ S self-assembled monolayers on Au(111). Journal of Physics Condensed Matter, 2007, 19, 305019.	1.8	7
53	Surface Investigation on Gd ₄ M ₈ (M = Zn, Ni) Single Molecule Coolers. Advanced Functional Materials, 2014, 24, 4782-4788.	14.9	6
54	CoTPP molecules deposited on graphene/Ni (111): Quenching of the antiferromagnetic interaction induced by gold intercalation. Journal of Applied Physics, 2019, 125, .	2.5	6

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55	Single-particle and collective excitations of a two-dimensional electron gas at the Cs/InAs(110) surface. <i>Physical Review B</i> , 2001, 64, .	3.2	5
56	Photoemission investigation of the alkali-metal-induced two-dimensional electron gas at the Si(111)(1 \times 1):H surface. <i>Physical Review B</i> , 2003, 67, .	3.2	5
57	Organized single-molecule magnets: direct observation of new Mn ₁₂ derivatives on gold. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E725-E726.	2.3	4
58	Vibrational signature of the graphene nanoribbon edge structure from high-resolution electron energy-loss spectroscopy. <i>Nanoscale</i> , 2020, 12, 19681-19688.	5.6	3
59	Graphite/epoxy composite for building Bipolar Plates. <i>E3S Web of Conferences</i> , 2022, 334, 04010.	0.5	1
60	Space charge layer at interfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 459-463.	1.7	0
61	Thin Film SiC Epitaxy on Si(111) from Acetylene Precursor. <i>Materials Science Forum</i> , 2003, 433-436, 221-224.	0.3	0