Benedetta Casu

List of Publications by Year in descending order

79 papers	1,560 citations	279487 23 h-index	360668 35 g-index
84 all docs	84 docs citations	84 times ranked	1823 citing authors

#	Article	IF	Citations
1	Magnetic behavior in metal-free radical thin films. CheM, 2022, 8, 801-814.	5.8	11
2	High-Spin (S = 1) Blatter-Based Diradical with Robust Stability and Electrical Conductivity. Journal of the American Chemical Society, 2022, 144, 6059-6070.	6.6	30
3	Challenges in Controlled Thermal Deposition of Organic Diradicals. Chemistry of Materials, 2021, 33, 2019-2028.	3.2	10
4	Synthesis and Thin Films of Thermally Robust Quartet (S = 3/2) Ground State Triradical. Journal of the American Chemical Society, 2021, 143, 5508-5518.	6.6	36
5	From radical to triradical thin film processes: the Blatter radical derivatives. Journal of Materials Chemistry C, 2021, 9, 10787-10793.	2.7	13
6	Exploiting the versatile alkyne-based chemistry for expanding the applications of a stable triphenylmethyl organic radical on surfaces. Chemical Science, 2020, 11, 516-524.	3.7	20
7	Stability of radical-functionalized gold surfaces by self-assembly and on-surface chemistry. Chemical Science, 2020, 11, 9162-9172.	3.7	12
8	Thermally and Magnetically Robust Triplet Ground State Diradical. Journal of the American Chemical Society, 2019, 141, 4764-4774.	6.6	86
9	Interfacing a Potential Purely Organic Molecular Quantum Bit with a Real-Life Surface. ACS Applied Materials & Interfaces, 2019, 11, 1571-1578.	4.0	48
10	Nanoscale Studies of Organic Radicals: Surface, Interface, and Spinterface. Accounts of Chemical Research, 2018, 51, 753-760.	7.6	48
11	Doping and oxidation effects under ambient conditions in copper surfaces: a â€œreal-lifeâ€•CuBe surface. Journal of Materials Chemistry C, 2018, 6, 2769-2777.	2.7	6
12	In Situ Real-Time Low-Energy Electron Microscopy. , 2018, , 287-294.		0
13	Thin film properties and stability of a potential molecular quantum bit based on copper(<scp>ii</scp>). Journal of Materials Chemistry C, 2018, 6, 8028-8034.	2.7	8
14	Cyano-Functional Group as an Anchoring Tool for Organic Small Molecules on Gold. Journal of Physical Chemistry C, 2017, 121, 13660-13665.	1.5	5
15	XMCD going ultra-cold: Experiments at 100 mK and 7 T. Journal of Physics: Conference Series, 2017, 875, 112005.	0.3	0
16	Electronic and structural properties in thermally annealed PSiF-DBT:PC71BM blends for organic photovoltaics. Thin Solid Films, 2016, 615, 165-170.	0.8	11
17	A Quasi-Free-Standing Single Layer of a B3N3-Doped Nanographene Molecule Deposited on Au(111) Single Crystals. Journal of Physical Chemistry C, 2016, 120, 17645-17651.	1.5	14
18	Unraveling the mark of surface defects on a spinterface: The nitronyl nitroxide/TiO2(110) interface. Nano Research, 2016, 9, 3515-3527.	5.8	8

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19	Island shape and electronic structure in diindenoperylene thin films deposited on Au(110) single crystals. Physical Chemistry Chemical Physics, 2016, 18, 13693-13700.	1.3	0
20	Interplay between Solution Processing and Electronic Structure in Metal-Free Organic Magnets Based on a TEMPO Pentacene Derivative. Journal of Physical Chemistry C, 2016, 120, 3289-3294.	1.5	8
21	A Derivative of the Blatter Radical as a Potential Metal-Free Magnet for Stable Thin Films and Interfaces. ACS Applied Materials & Interfaces, 2016, 8, 1805-1812.	4.0	75
22	Fingerprint of Fractional Charge Transfer at the Metal/Organic Interface. Journal of Physical Chemistry C, 2015, 119, 12538-12544.	1.5	24
23	Intercorrelation of Electronic, Structural, and Morphological Properties in Nanorods of 2,3,9,10-Tetrafluoropentacene. ACS Applied Materials & Interfaces, 2015, 7, 19774-19780.	4.0	14
24	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. Synthetic Metals, 2015, 203, 16-21.	2.1	32
25	Chemisorption, Morphology, and Structure of a nâ€Type Perylene Diimide Derivative at the Interface with Gold: Influence on Devices from Thin Films to Single Molecules. Chemistry - A European Journal, 2015, 21, 3766-3771.	1.7	15
26	Growth, structure, and electronic properties in organic thin films deposited on metal surfaces investigated by low energy electron microscopy and photoelectron emission microscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 39-48.	0.8	20
27	Electronic Structure and Stability of Fluorophoreâ€“Nitroxide Radicals from Ultrahigh Vacuum to Air Exposure. ACS Applied Materials & Interfaces, 2015, 7, 1685-1692.	4.0	17
28	Core-Hole Screening, Electronic Structure, and Paramagnetic Character in Thin Films of Organic Radicals Deposited on SiO₂/Si(111). Journal of Physical Chemistry C, 2014, 118, 8044-8049.	1.5	15
29	Substrate-induced effects in thin films of a potential magnet composed of metal-free organic radicals deposited on Si(111). Chemical Communications, 2014, 50, 13510-13513.	2.2	9
30	Pentacene-based nanorods on Au(111) single crystals: Charge transfer, diffusion, and step-edge barriers. Nano Research, 2013, 6, 449-459.	5.8	14
31	At the interface between organic radicals and TiO2(110) single crystals: electronic structure and paramagnetic character. Chemical Communications, 2013, 49, 10103.	2.2	26
32	Paramagnetic Nitronyl Nitroxide Radicals on Al2O3(11â€“20) Single Crystals: Nanoscale Assembly, Morphology, Electronic Structure, And Paramagnetic Character toward Future Applications. ACS Applied Materials & Interfaces, 2013, 5, 13006-13011.	4.0	11
33	Paramagnetic Character in Thin Films of Metal-Free Organic Magnets Deposited on TiO₂(110) Single Crystals. Journal of Physical Chemistry C, 2013, 117, 26675-26679.	1.5	11
34	Nanoscale Assembly of Paramagnetic Organic Radicals on Au(111) Single Crystals. Chemistry - A European Journal, 2013, 19, 3445-3450.	1.7	36
35	Island shapes and aggregation steered by the geometry of the substrate lattice. Chemical Communications, 2012, 48, 6957.	2.2	11
36	Nanoscale assembly, morphology and screening effects in nanorods of newly synthesized substituted pentacenes. RSC Advances, 2012, 2, 5112.	1.7	30

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37	Direct observation of step-edge barrier effects and general aspects of growth processes: morphology and structure in diindenoperylene thin films deposited on Au(100) single crystals. CrystEngComm, 2011, 13, 4139.	1.3	14
38	Nanoscale Order and Structure in Organic Materials: Diindenoperylene on Gold as a Model System. Crystal Growth and Design, 2011, 11, 3629-3635.	1.4	17
39	Resonant Raman spectra of diindenoperylene thin films. Journal of Chemical Physics, 2011, 134, 014504. Structural and Functional Characterization of a New Double Variant Haemoglobin	1.2	23
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55	Influence of the preparation conditions on the morphology of perylene thin films on Si(111) and Si(100). Journal of Chemical Physics, 2008, 129, 244708.	1.2	18
56	Photoemission electron microscopy of diindenoperylene thin films. Physical Review B, 2008, 78, .	1.1	17
57	Buried interfacial layer of highly oriented molecules in copper phthalocyanine thin films on polycrystalline gold. Journal of Chemical Physics, 2007, 126, 174704.	1.2	47
58	Investigation of polarization effects in organic thin films by surface core-level shifts. Physical Review B, 2007, 76, .	1.1	29
59	Growth mode and molecular orientation of phthalocyanine molecules on metal single crystal substrates: A NEXAFS and XPS study. Surface Science, 2006, 600, 1077-1084.	0.8	79
60	High-resolution inner-shell excitation spectroscopy of H2-phthalocyanine. Journal of Chemical Physics, 2006, 125, 014705.	1.2	24
61	Bonding and Structure of Glycine on Ordered Al2O3Film Surfaces. Langmuir, 2004, 20, 10551-10559.	1.6	50
62	Interface properties of organic materials investigated by using ultraviolet photoelectron spectroscopy. Synthetic Metals, 2003, 138, 131-134.	2.1	2
63	Band mapping and frontier orbitals at the interface thin native SiO 2 /organics. , 2003, , .		0
64	Electronic structure at the interface between metals and new materials for organic light emitting diodes. Surface Science, 2002, 507-510, 666-671.	0.8	5
65	Electronic structure and localized states in starburst trisphenylquinoxaline. , 2002, , .		1
66	Analysis of detrapping processes of aromatic 1,3,4-oxadiazoles with thermally stimulated luminescence. Synthetic Metals, 2002, 127, 181-184.	2.1	3
67	Electronic structure of aromatic 1,3,4-oxadiazoles studied by ultraviolet photoelectron spectroscopy. Synthetic Metals, 2002, 127, 185-188.	2.1	4
68	Valence electronic structure of oxadiazoles and quinoxalines model compounds. Synthetic Metals, 2001, 121, 1397-1398.	2.1	10
69	Electronic transport properties of heterocyclic materials for heterolayer organic light emitting devices. Synthetic Metals, 2001, 121, 1673-1674.	2.1	3
70	Ultraviolet photoelectron spectroscopy on new heterocyclic materials for multilayer organic light emitting diodes. Synthetic Metals, 2001, 124, 79-81.	2.1	16
71	Thermally stimulated processes in heterocyclic materials suitable for heterolayer organic light emitting diodes. Synthetic Metals, 2001, 124, 83-85.	2.1	5
72	Ultraviolet photoelectron spectroscopy of thin films of new materials for multilayer organic light emitting diodes. Surface Science, 2001, 482-485, 1205-1209.	0.8	6

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73	Electronic Structure of Ordered Langmuir-Blodgett Films of an Amphiphilic Derivative of 2,5-Diphenyl-1,3,4-Oxadiazole. Studies in Interface Science, 2001, , 121-135.	0.0	4
74	A different approach to the analysis of data in life-tests of laser diodes. Microelectronics Reliability, 1998, 38, 767-771.	0.9	8
75	Early signatures for REDR-based laser degradations. Microelectronics Reliability, 1998, 38, 1215-1220.	0.9	3
76	REDR-based kinetics for line defects leading to sudden failures in 980 nm SL SQW InGaAs laser diodes. , 1998, , .		3
77	RECOMBINATION IN HgGaInS 4 SINGLE CRYSTALS. Journal of Physics and Chemistry of Solids, 1997, 58, 325-330.	1.9	28
78	Photovoltaic spectroscopy of exciton structures in Zn1â^'xCdxSe/ZnSe multiple quantum wells. Journal of Applied Physics, 1996, 79, 6995-7000.	1.1	3
79	Development of Single-Crystal OFETs Prepared on Well-Ordered Sapphire Substrates. , 0, , 281-298.		1