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	Determination of transport levels of organic semiconductors by UPS and IPS. New Journal of Physics, 2008, 10, 085001.	1.2	133
2	Thermally and Magnetically Robust Triplet Ground State Diradical. Journal of the American Chemical Society, 2019, 141, 4764-4774.	6.6	86
3	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
4	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
5	Bonding and Structure of Glycine on Ordered Al2O3Film Surfaces. Langmuir, 2004, 20, 10551-10559.	1.6	50
6	Nanoscale Studies of Organic Radicals: Surface, Interface, and Spinterface. Accounts of Chemical Research, 2018, 51, 753-760.	7.6	48
7	Interfacing a Potential Purely Organic Molecular Quantum Bit with a Real-Life Surface. ACS Applied Materials & Interfaces, 2019, 11, 1571-1578.	4.0	48
8	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
9	Locally Resolved Coreâ€hole Screening, Molecular Orientation, and Morphology in Thin Films of Diindenoperylene Deposited on Au(111) Single Crystals. Advanced Materials, 2010, 22, 3740-3744.	11.1	40
10	Nanoscale Assembly of Paramagnetic Organic Radicals on Au(111) Single Crystals. Chemistry - A European Journal, 2013, 19, 3445-3450.	1.7	36
11	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
12	Nucleation in Organic Thin Film Growth: Perylene on Al2O3/Ni3Al(111). Journal of Physical Chemistry C, 2009, 113, 10990-10996.	1.5	32
13	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. Synthetic Metals, 2015, 203, 16-21.	2.1	32
14	Nanoscale assembly, morphology and screening effects in nanorods of newly synthesized substituted pentacenes. RSC Advances, 2012, 2, 5112.	1.7	30
15	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
16	Investigation of polarization effects in organic thin films by surface core-level shifts. Physical Review B, 2007, 76, .	1.1	29
17	RECOMBINATION IN HgGaInS 4 SINGLE CRYSTALS. Journal of Physics and Chemistry of Solids, 1997, 58, 325-330.	1.9	28
18	Thinâ€Film Properties of DNA and RNA Bases: A Combined Experimental and Theoretical Study. ChemPhysChem, 2008, 9, 740-747.	1.0	27

#	Article	IF	Citations
19	At the interface between organic radicals and TiO2(110) single crystals: electronic structure and paramagnetic character. Chemical Communications, 2013, 49, 10103.	2.2	26
20	High-resolution inner-shell excitation spectroscopy of H2-phthalocyanine. Journal of Chemical Physics, 2006, 125, 014705.	1.2	24
21	Molecular orientation in diindenoperylene thin films deposited on polycrystalline gold. Applied Physics Letters, 2008, 93, .	1.5	24
22	Initial molecular orientation of phthalocyanines on oxide substrates. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2524-2528.	0.8	24
23	Fingerprint of Fractional Charge Transfer at the Metal/Organic Interface. Journal of Physical Chemistry C, 2015, 119, 12538-12544.	1.5	24
24	Resonant Raman spectra of diindenoperylene thin films. Journal of Chemical Physics, 2011, 134, 014504.	1.2	23
25	A high-resolution near-edge x-ray absorption fine structure investigation of the molecular orientation in the pentacene/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) pentacene/system. Journal of Chemical Physics, 2008, 128, 014705.	1.2	22
26	Role of the substrate in electronic structure, molecular orientation, and morphology of organic thin films: diindenoperylene on rutile TiO2(110). Physical Chemistry Chemical Physics, 2009, 11, 9000.	1.3	21
27	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
28	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
29	Raman polarization studies of highly oriented organic thin films. Journal of Raman Spectroscopy, 2009, 40, 2015-2022.	1.2	19
30	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
31	Evidence for efficient screening in organic materials. Physica Status Solidi - Rapid Research Letters, 2008, 2, 40-42.	1.2	17
32	Photoemission electron microscopy of diindenoperylene thin films. Physical Review B, 2008, 78, .	1.1	17
33	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
34	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
35	Ultraviolet photoelectron spectroscopy on new heterocyclic materials for multilayer organic light emitting diodes. Synthetic Metals, 2001, 124, 79-81.	2.1	16
36	A multi-technique investigation of TiO2 films prepared by magnetron sputtering. Surface Science, 2008, 602, 1599-1606.	0.8	15

#	Article	IF	Citations
37	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
38	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
39	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
40	Pentacene-based nanorods on Au(111) single crystals: Charge transfer, diffusion, and step-edge barriers. Nano Research, 2013, 6, 449-459.	5.8	14
41	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
42	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
43	From radical to triradical thin film processes: the Blatter radical derivatives. Journal of Materials Chemistry C, 2021, 9, 10787-10793.	2.7	13
44	Stability of radical-functionalized gold surfaces by self-assembly and on-surface chemistry. Chemical Science, 2020, 11, 9162-9172.	3.7	12
45	Island shapes and aggregation steered by the geometry of the substrate lattice. Chemical Communications, 2012, 48, 6957.	2.2	11
46	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
47	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
48	Electronic and structural properties in thermally annealed PSiF-DBT:PC71BM blends for organic photovoltaics. Thin Solid Films, 2016, 615, 165-170.	0.8	11
49	Magnetic behavior in metal-free radical thin films. CheM, 2022, 8, 801-814.	5.8	11
50	Valence electronic structure of oxadiazoles and quinoxalines model compounds. Synthetic Metals, 2001, 121, 1397-1398.	2.1	10
51	Morphology of perylene thin films on SiOx/Si(100) and SiO2/Si(100): A spectroscopic and microscopic study of the influence of the preparation parameters. Chemical Physics Letters, 2009, 479, 76-80.	1.2	10
52	Challenges in Controlled Thermal Deposition of Organic Diradicals. Chemistry of Materials, 2021, 33, 2019-2028.	3.2	10
53	Unusual energy shifts in resonant photoemission spectra of organic model molecules. Journal of Chemical Physics, 2009, 130, 194705.	1.2	9
54	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

#	Article	IF	Citations
55	A different approach to the analysis of data in life-tests of laser diodes. Microelectronics Reliability, 1998, 38, 767-771.	0.9	8
56	Unraveling the mark of surface defects on a spinterface: The nitronyl nitroxide/TiO2(110) interface. Nano Research, 2016, 9, 3515-3527.	5.8	8
57	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
58	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
59	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
60	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
61	Thermally stimulated processes in heterocyclic materials suitable for heterolayer organic light emitting diodes. Synthetic Metals, 2001, 124, 83-85.	2.1	5
62	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
63	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
64	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
65	Electronic structure of aromatic 1,3,4-oxadiazoles studied by ultraviolet photoelectron spectroscopy. Synthetic Metals, 2002, 127, 185-188.	2.1	4
66	From interfaces to surfaces: soft x-ray spectromicroscopy investigations of diindenoperylene thin films on gold. Journal of Physics Condensed Matter, 2009, 21, 314017.	0.7	4
67	Photovoltaic spectroscopy of exciton structures in Zn1â^'xCdxSe/ZnSe multiple quantum wells. Journal of Applied Physics, 1996, 79, 6995-7000.	1.1	3
68	Early signatures for REDR-based laser degradations. Microelectronics Reliability, 1998, 38, 1215-1220.	0.9	3
69	REDR-based kinetics for line defects leading to sudden failures in 980 nm SL SQW InGaAs laser diodes. , 1998, , .		3
70	Electronic transport properties of heterocyclic materials for heterolayer organic light emitting devices. Synthetic Metals, 2001, 121, 1673-1674.	2.1	3
71	Analysis of detrapping processes of aromatic 1,3,4-oxadiazoles with thermally stimulated luminescence. Synthetic Metals, 2002, 127, 181-184.	2.1	3
72	Interface properties of organic materials investigated by using ultraviolet photoelectron spectroscopy. Synthetic Metals, 2003, 138, 131-134.	2.1	2

#	Article	IF	Citations
73	Electronic structure and localized states in starburst trisphenylquinoxaline. , 2002, , .		1
74	Development of Single-Crystal OFETs Prepared on Well-Ordered Sapphire Substrates. , 0, , 281-298.		1
75	Structural and Functional Characterization of a New Double Variant Haemoglobin		