

Andrea Floris

List of Publications by Year in descending order

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48
papers

7,058
citations

218677

26
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

8893
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Molecular Compression by a Hyperthermal Collision Gives Bond-Selective Mechanochemistry. <i>Physical Review Letters</i> , 2021, 126, 056001.	7.8	22
2	Magnetic Energy Landscape of Dimolybdenum Tetraacetate on a Bulk Insulator Surface. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3806.	2.5	3
3	<i>Ab Initio</i> Electron-Phonon Interactions in Correlated Electron Systems. <i>Physical Review Letters</i> , 2021, 127, 126404.	7.8	22
4	Unified Description of the Specific Heat of Ionic Bulk Materials Containing Nanoparticles. <i>ACS Nano</i> , 2021, 15, 563-574.	14.6	6
5	Special issue on novel superconducting and magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 040401.	1.8	0
6	Creating a regular array of metal-complexing molecules on an insulator surface at room temperature. <i>Nature Communications</i> , 2020, 11, 6424.	12.8	3
7	Hubbard-corrected density functional perturbation theory with ultrasoft pseudopotentials. <i>Physical Review B</i> , 2020, 101, .	3.2	43
8	Energy Barrier: Focus on the Essential: Extracting the Decisive Energy Barrier of a Complex Process (<i>Adv. Mater. Interfaces</i> 20/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970128.	3.7	0
9	Focus on the Essential: Extracting the Decisive Energy Barrier of a Complex Process. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900795.	3.7	2
10	Controlling the preferential motion of chiral molecular walkers on a surface. <i>Chemical Science</i> , 2019, 10, 5864-5874.	7.4	6
11	On-surface synthesis on a bulk insulator surface. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 133001.	1.8	7
12	Kinetic control of molecular assembly on surfaces. <i>Communications Chemistry</i> , 2018, 1, .	4.5	6
13	Thermostatic properties of nitrate molten salts and their solar and eutectic mixtures. <i>Scientific Reports</i> , 2018, 8, 10485.	3.3	48
14	Mechanisms of Covalent Dimerization on a Bulk Insulating Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10053-10062.	3.1	9
15	Ethylene Dissociation on Ni ₃ Al(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 7967-7976.	3.1	2
16	Advanced capabilities for materials modelling with Quantum ESPRESSO. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 465901.	1.8	4,303
17	Driving Forces for Covalent Assembly of Porphyrins by Selective C-H Bond Activation and Intermolecular Coupling on a Copper Surface. <i>Journal of the American Chemical Society</i> , 2016, 138, 5837-5847.	13.7	30
18	Increasing the Templating Effect on a Bulk Insulator Surface: From a Kinetically Trapped to a Thermodynamically More Stable Structure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17546-17554.	3.1	7

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19	First-Principles Calculation of the Real-Space Order Parameter and Condensation Energy Density in Phonon-Mediated Superconductors. <i>Physical Review Letters</i> , 2015, 115, 097002.	7.8	26
20	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled Inâ€¦Situ. <i>Angewandte Chemie</i> , 2015, 127, 7207-7211.	2.0	7
21	Thermoelasticity of Fe ²⁺ -bearing bridgmanite. <i>Geophysical Research Letters</i> , 2015, 42, 1741-1749.	4.0	57
22	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled Inâ€¦Situ. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7101-7105.	13.8	26
23	Reduced partition function ratios of iron and oxygen in goethite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 151, 19-33.	3.9	38
24	Anomalous Coarsening Driven by Reversible Charge Transfer at Metalâ€“Organic Interfaces. <i>ACS Nano</i> , 2014, 8, 12356-12364.	14.6	27
25	Infrared spectroscopic properties of goethite: anharmonic broadening, long-range electrostatic effects and Al substitution. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 289-302.	0.8	24
26	Hubbard-corrected DFT energy functionals: The LDA+U description of correlated systems. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 14-49.	2.0	533
27	Fine-Tuning the Electrostatic Properties of an Alkali-Linked Organic Adlayer on a Metal Substrate. <i>ACS Nano</i> , 2013, 7, 8059-8065.	14.6	21
28	Stereoselectivity and electrostatics in charge-transfer Mn- and Cs-TCNQ4 networks on Ag(100). <i>Nature Communications</i> , 2012, 3, 940.	12.8	90
29	Exact Conditions in Finite-Temperature Density-Functional Theory. <i>Physical Review Letters</i> , 2011, 107, 163001.	7.8	73
30	Vibrational properties of MnO and NiO from DFT $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle U \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -based density functional perturbation theory. <i>Physical Review B</i> , 2011, 84, .	3.2	82
31	Electron-phonon interaction and superconductivity in metallic molecular hydrogen. I. Electronic and dynamical properties under pressure. <i>Physical Review B</i> , 2010, 81, .	3.2	47
32	Electron-phonon interaction and superconductivity in metallic molecular hydrogen. II. Superconductivity under pressure. <i>Physical Review B</i> , 2010, 81, .	3.2	60
33	Electronic, vibrational, and superconducting properties of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{CaBeSi} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: First-principles calculations. <i>Physical Review B</i> , 2009, 79, .	3.2	32
34	Multiband superconductivity in Pb, H under pressure and CaBeSi fromab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 164209.	1.8	10
35	The role of Coulomb interaction in the superconducting properties of CaC ₆ and H under pressure. <i>Superconductor Science and Technology</i> , 2009, 22, 034006.	3.5	32
36	<i>Ab Initio</i> Description of High-Temperature Superconductivity in Dense Molecular Hydrogen. <i>Physical Review Letters</i> , 2008, 100, 257001.	7.8	199

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37	Probing the electron-phonon coupling in MgB ₂ through magnetoresistance measurements in neutron irradiated thin films. <i>Europhysics Letters</i> , 2008, 81, 67006.	2.0	12
38	Publisher's Note: <i>Ab initio</i> Description of High-Temperature Superconductivity in Dense Molecular Hydrogen [<i>Phys. Rev. Lett.</i> 100, 257001 (2008)]. <i>Physical Review Letters</i> , 2008, 101, .	7.8	4
39	Two-band superconductivity in Pb from <i>ab initio</i> calculations. <i>Physical Review B</i> , 2007, 75, .	3.2	73
40	Anisotropic gap of superconducting CaC ₆ : A first-principles density functional calculation. <i>Physical Review B</i> , 2007, 75, .	3.2	101
41	Superconducting properties of MgB ₂ from first principles. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 456, 45-53.	1.2	46
42	<i>Ab initio</i> prediction of pressure-induced superconductivity in potassium. <i>Physical Review B</i> , 2006, 73, .	3.2	41
43	Superconductivity in Lithium, Potassium, and Aluminum under Extreme Pressure: A First-Principles Study. <i>Physical Review Letters</i> , 2006, 96, 047003.	7.8	159
44	<i>Ab-initio</i> Computation of Superconducting Properties of Elemental Superconductors and MgB ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 649-652.	0.5	2
45	Superconducting Properties of MgB ₂ from First Principles. <i>Physical Review Letters</i> , 2005, 94, 037004.	7.8	137
46	<i>Ab initio</i> theory of superconductivity. II. Application to elemental metals. <i>Physical Review B</i> , 2005, 72, .	3.2	261
47	<i>Ab initio</i> theory of superconductivity. I. Density functional formalism and approximate functionals. <i>Physical Review B</i> , 2005, 72, .	3.2	314
48	Cu doping effects in MgB ₂ . <i>Physical Review B</i> , 2003, 67, .	3.2	5