Andrea Floris

List of Publications by Year
in descending order

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48	7,058	218381	223531
papers	citations	26 h-index	46 g-index

49	49	49	8893
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Molecular Compression by a Hyperthermal Collision Gives Bond-Selective Mechanochemistry. Physical Review Letters, 2021, 126, 056001.	2.9	22
2	Magnetic Energy Landscape of Dimolybdenum Tetraacetate on a Bulk Insulator Surface. Applied Sciences (Switzerland), 2021, 11, 3806.	1.3	3
3	AbÂInitio Electron-Phonon Interactions in Correlated Electron Systems. Physical Review Letters, 2021, 127, 126404.	2.9	22
4	Unified Description of the Specific Heat of Ionic Bulk Materials Containing Nanoparticles. ACS Nano, 2021, 15, 563-574.	7.3	6
5	Special issue on novel superconducting and magnetic materials. Journal of Physics Condensed Matter, 2020, 32, 040401.	0.7	0
6	Creating a regular array of metal-complexing molecules on an insulator surface at room temperature. Nature Communications, 2020, 11, 6424.	5.8	3
7	Hubbard-corrected density functional perturbation theory with ultrasoft pseudopotentials. Physical Review B, 2020, 101, .	1.1	43
8	Energy Barrier: Focus on the Essential: Extracting the Decisive Energy Barrier of a Complex Process (Adv. Mater. Interfaces 20/2019). Advanced Materials Interfaces, 2019, 6, 1970128.	1.9	0
9	Focus on the Essential: Extracting the Decisive Energy Barrier of a Complex Process. Advanced Materials Interfaces, 2019, 6, 1900795.	1.9	2
10	Controlling the preferential motion of chiral molecular walkers on a surface. Chemical Science, 2019, 10, 5864-5874.	3.7	6
11	On-surface synthesis on a bulk insulator surface. Journal of Physics Condensed Matter, 2018, 30, 133001.	0.7	7
12	Kinetic control of molecular assembly on surfaces. Communications Chemistry, 2018, 1, .	2.0	6
13	Thermostatic properties of nitrate molten salts and their solar and eutectic mixtures. Scientific Reports, 2018, 8, 10485.	1.6	48
14	Mechanisms of Covalent Dimerization on a Bulk Insulating Surface. Journal of Physical Chemistry C, 2017, 121, 10053-10062.	1.5	9
15	Ethylene Dissociation on Ni₃Al(111). Journal of Physical Chemistry C, 2017, 121, 7967-7976.	1.5	2
16	Advanced capabilities for materials modelling with Quantum ESPRESSO. Journal of Physics Condensed Matter, 2017, 29, 465901.	0.7	4,303
17	Driving Forces for Covalent Assembly of Porphyrins by Selective Câ€“H Bond Activation and Intermolecular Coupling on a Copper Surface. Journal of the American Chemical Society, 2016, 138, 5837-5847.	6.6	30
18	Increasing the Templating Effect on a Bulk Insulator Surface: From a Kinetically Trapped to a Thermodynamically More Stable Structure. Journal of Physical Chemistry C, 2016, 120, 17546-17554.	1.5	7

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19	First-Principles Calculation of the Real-Space Order Parameter and Condensation Energy Density in Phonon-Mediated Superconductors. Physical Review Letters, 2015, 115, 097002.	2.9	26
20	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled Inâ€...Situ. Angewandte Chemie, 2015, 127, 7207-7211.	1.6	7
21	Thermoelasticity of Fe²⁺â€bearing bridgmanite. Geophysical Research Letters, 2015, 42, 1741-1749.	1.5	57
22	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled Inâ€...Situ. Angewandte Chemie - International Edition, 2015, 54, 7101-7105.	7.2	26
23	Reduced partition function ratios of iron and oxygen in goethite. Geochimica Et Cosmochimica Acta, 2015, 151, 19-33.	1.6	38
24	Anomalous Coarsening Driven by Reversible Charge Transfer at Metalâ€“Organic Interfaces. ACS Nano, 2014, 8, 12356-12364.	7.3	27
25	Infrared spectroscopic properties of goethite: anharmonic broadening, long-range electrostatic effects and Al substitution. Physics and Chemistry of Minerals, 2014, 41, 289-302.	0.3	24
26	Hubbard-corrected DFT energy functionals: The LDA+U description of correlated systems. International Journal of Quantum Chemistry, 2014, 114, 14-49.	1.0	533
27	Fine-Tuning the Electrostatic Properties of an Alkali-Linked Organic Adlayer on a Metal Substrate. ACS Nano, 2013, 7, 8059-8065.	7.3	21
28	Stereoselectivity and electrostatics in charge-transfer Mn- and Cs-TCNQ4 networks on Ag(100). Nature Communications, 2012, 3, 940.	5.8	90
29	Exact Conditions in Finite-Temperature Density-Functional Theory. Physical Review Letters, 2011, 107, 163001.	2.9	73
30	Vibrational properties of MnO and NiO from DFT<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>+</mml:mo><mml:mspace width="0.28em" /><mml:mi>U</mml:mi></mml:mrow></mml:math>-based density functional perturbation theory. Physical Review B, 2011, 84, .	1.1	82
31	Electron-phonon interaction and superconductivity in metallic molecular hydrogen. I. Electronic and dynamical properties under pressure. Physical Review B, 2010, 81, .	1.1	47
32	Electron-phonon interaction and superconductivity in metallic molecular hydrogen. II. Superconductivity under pressure. Physical Review B, 2010, 81, .	1.1	60
33	Electronic, vibrational, and superconducting properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mtext>CaBeSi</mml:mtext></mml:mrow></mml:mrow></mml:math>: First-principles calculations. Physical Review B, 2009, 79, .	1.1	32
34	Multiband superconductivity in Pb, H under pressure and CaBeSi fromab initiocalculations. Journal of Physics Condensed Matter, 2009, 21, 164209.	0.7	10
35	The role of Coulomb interaction in the superconducting properties of CaC₆and H under pressure. Superconductor Science and Technology, 2009, 22, 034006.	1.8	32
36	AbÂInitioDescription of High-Temperature Superconductivity in Dense Molecular Hydrogen. Physical Review Letters, 2008, 100, 257001.	2.9	199

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37	Probing the electron-phonon coupling in MgB 2 through magnetoresistance measurements in neutron irradiated thin films. Europhysics Letters, 2008, 81, 67006.	0.7	12
38	Publisherâ€™s Note:Ab initioDescription of High-Temperature Superconductivity in Dense Molecular Hydrogen [Phys. Rev. Lett.100, 257001 (2008)]. Physical Review Letters, 2008, 101, .	2.9	4
39	Two-band superconductivity in Pb fromab initiocalculations. Physical Review B, 2007, 75, .	1.1	73
40	Anisotropic gap of superconductingCaC6: A first-principles density functional calculation. Physical Review B, 2007, 75, .	1.1	101
41	Superconducting properties of MgB2 from first principles. Physica C: Superconductivity and Its Applications, 2007, 456, 45-53.	0.6	46
42	Ab initioprediction of pressure-induced superconductivity in potassium. Physical Review B, 2006, 73, .	1.1	41
43	Superconductivity in Lithium, Potassium, and Aluminum under Extreme Pressure: A First-Principles Study. Physical Review Letters, 2006, 96, 047003.	2.9	159
44	Ab-initio Computation of Superconducting Properties of Elemental Superconductors and MgB2. Journal of Superconductivity and Novel Magnetism, 2005, 18, 649-652.	0.5	2
45	Superconducting Properties ofMgB2from First Principles. Physical Review Letters, 2005, 94, 037004.	2.9	137
46	Ab initiotheory of superconductivity. II. Application to elemental metals. Physical Review B, 2005, 72, .	1.1	261
47	Ab initiotheory of superconductivity. I. Density functional formalism and approximate functionals. Physical Review B, 2005, 72, .	1.1	314
48	Cu doping effects inMgB2. Physical Review B, 2003, 67, .	1.1	5