SinhuÃ© LÃ³pez-Moreno

List of Publications by Year
in descending order

37 papers	1,222 citations	361045 20 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	1396 citing authors

#	Article	IF	Citations
1	First-principles study of Mn₃ adsorbed on Au(111) and Cu(111) surfaces. RSC Advances, 2021, 11, 31073-31083.	1.7	3
2	High-pressure characterization of multifunctional CrVO₄. Journal of Physics Condensed Matter, 2020, 32, 385403.	0.7	12
3	First-principles study of elastic and thermal properties of scheelite-type molybdates and tungstates. Materials Today Communications, 2020, 24, 101089.	0.9	11
4	Precise Characterization of the Rich Structural Landscape Induced by Pressure in Multifunctional FeVO₄. Inorganic Chemistry, 2020, 59, 6623-6630.	1.9	19
5	First-principles study of Ni adatom migration on graphene with vacancies. RSC Advances, 2019, 9, 18823-18834.	1.7	7
6	Phase transition systematics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiVO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> by means of high-pressureâ€“high-temperature Raman experiments. Physical Review B, 2018, 98, .	1.1	24
7	Anharmonic contribution to the stabilization of Mg(OH)2 from first principles. Physical Chemistry Chemical Physics, 2018, 20, 17799-17808.	1.3	10
8	Stability of FeVO₄ under Pressure: An X-ray Diffraction and First-Principles Study. Inorganic Chemistry, 2018, 57, 7860-7876.	1.9	27
9	First-Principles Study of InVO₄ under Pressure: Phase Transitions from CrVO₄- to AgMnO₄-Type Structure. Inorganic Chemistry, 2017, 56, 2697-2711.	1.9	25
10	Fe/Ni core/shell nanowires and nanorods: a combined first-principles and atomistic simulation study. Physical Chemistry Chemical Physics, 2017, 19, 16267-16275.	1.3	7
11	Monazite-type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrCr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> under compression. Physical Review B, 2016, 94, .	1.1	30
12	First-principles study of pressure-induced structural phase transitions in MnF₂. Physical Chemistry Chemical Physics, 2016, 18, 33250-33263.	1.3	24
13	Changes in the magnetization hysteresis direction and structure-driven magnetoresistance of a chalcopyrite-based magnetic semiconductor. Journal Physics D: Applied Physics, 2016, 49, 125007.	1.3	10
14	Energetics and the magnetic state of Mn2 adsorbed on Au(111): Dimer bond distance dependence. Journal of Magnetism and Magnetic Materials, 2016, 403, 172-180.	1.0	4
15	Complex magnetic states in Ni/Fe bi-segmented nanorods. Physica Status Solidi - Rapid Research Letters, 2015, 9, 740-744.	1.2	4
16	Polymorphs of CaSeO₄ under Pressure: A First-Principles Study of Structural, Electronic, and Vibrational Properties. Inorganic Chemistry, 2015, 54, 1765-1777.	1.9	31
17	Pressure control of magnetic clusters in strongly inhomogeneous ferromagnetic chalcopyrites. Scientific Reports, 2015, 5, 7720.	1.6	11
18	Atomic and molecular oxygen adsorbed on (111) transition metal surfaces: Cu and Ni. Journal of Chemical Physics, 2015, 142, 154702.	1.2	52

#	Article	IF	Citations
19	High-pressure structural behaviour of HoVO₄: combined XRD experiments andab initiocalculations. Journal of Physics Condensed Matter, 2014, 26, 265402.	0.7	58
20	Physical properties of quasi-one-dimensional MgO and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:r mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>-based nanostructures. Physical Review B, 2014, 90, .	1.1	9
21	Pressure-induced phase-transition sequence in CoF<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>: An experimental and first-principles study on the crystal, vibrational, and electronic properties. Physical Review B, 2013, 88, .	1.1	29
22	Structural, electronic, vibrational, and elastic properties of SWCNTs doped with B and N: an ab initio study. European Physical Journal D, 2013, 67, 1.	0.6	10
23	On the Control Parameters of the Quasiâ€One Dimensional Superconductivity in Sc₃CoC₄. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1985-1995.	0.6	19
24	Ab initioprediction of pressure-induced structural phase transitions of CrVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>-type orthophosphates. Physical Review B, 2012, 86, .	1.1	39
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>WO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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37	Structure and electronic properties of iron oxide clusters: A first-principles study. Physical Review B, 2009, 80, .	1.1	40