Giancarlo Trimarchi

List of Publications by Year
in descending order

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27	983	516710 16	526287 27
papers	citations	h-index	g-index

29	29	29	1405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct thermal neutron detection by the 2D semiconductor 6LiInP2Se6. Nature, 2020, 577, 346-349.	27.8	59
2	Charge Density Wave in the New Polymorphs of RE₂Ru₃Ge₅ (RE = Pr, Sm, Dy). Journal of the American Chemical Society, 2017, 139, 4130-4143.	13.7	33
3	Emergence of a few distinct structures from a single formal structure type during high-throughput screening for stable compounds: The case of RbCuS and RbCuSe. Physical Review B, 2015, 92, .	3.2	10
4	Incomplete Peierls-like chain dimerization as a mechanism for intrinsic conductivity and optical transparency: A La-Cu-O-S phase with mixed-anion layers as a case study. Physical Review B, 2015, 92, .	3.2	4
5	Selective Crystal Growth and Structural, Optical, and Electronic Studies of Mn3Ta2O8. Inorganic Chemistry, 2015, 54, 6513-6519.	4.0	6
6	Magnetization of ternary alloys based on Fe0.65Ni0.35 invar with 3d transition metal additions: An ab initio study. Journal of Applied Physics, 2015, 117, .	2.5	7
7	Prediction and Synthesis of Strain Tolerant RbCuTe Crystals Based on Rotation of One-Dimensional Nano Ribbons within a Three-Dimensional Inorganic Network. Journal of the American Chemical Society, 2015, 137, 11383-11390.	13.7	12
8	Structurally unstable<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>A</mml:mi><mml:mi>III</mml:mi></mml:msup><mml:ms mathvariant="normal">BiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>perovskites are predicted to be topological insulators but their stable structural forms are trivial band insulators. Physical Review B, 2014, 90, .	3.2	21
9	KAg11(VO4)4 as a candidate p-type transparent conducting oxide. Journal of Chemical Physics, 2013, 138, 194703.	3.0	6
10	Structural, Optical, and Transport Properties of Î±- and Î²-Ag₃VO₄. Chemistry of Materials, 2012, 24, 3346-3354.	6.7	29
11	Using design principles to systematically plan the synthesis of hole-conducting transparent oxides: Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>VO<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> and Ag<mml:math xmlns:mml="http://www.w3.org/1998	3.2	38
12	Structure prediction and targeted synthesis: A new NanN2 diazenide crystalline structure. Journal of Chemical Physics, 2010, 133, 194504.	3.0	17
13	Prediction of ordering and spontaneous rotation of epitaxial habits in substrate-coherent InGaN and GaAsSb. Applied Physics Letters, 2009, 95, 081901.	3.3	3
14	Long-range order instead of phase separation in large lattice-mismatch isovalentAXâ^'BXsystems. Physical Review B, 2009, 80, .	3.2	5
15	CaFe₄As₃: A Metallic Iron Arsenide with Anisotropic Magnetic and Charge-Transport Properties. Journal of the American Chemical Society, 2009, 131, 5405-5407.	13.7	32
16	Predicting stable stoichiometries of compounds via evolutionary global space-group optimization. Physical Review B, 2009, 80, .	3.2	54
17	Possible pitfalls in theoretical determination of ground-state crystal structures: The case of platinum nitride. Physical Review B, 2009, 79, .	3.2	35
18	Construction and solution of a Wannier-functions based Hamiltonian in the pseudopotential plane-wave framework for strongly correlated materials. European Physical Journal B, 2008, 65, 91-98.	1.5	96

#	Article	IF	Citations
19	LDA+DMFT implemented with the pseudopotential plane-wave approach. Journal of Physics Condensed Matter, 2008, 20, 135227.	1.8	40
20	Finding the lowest-energy crystal structure starting from randomly selected lattice vectors and atomic positions: first-principles evolutionary study of the Auâ€“Pd, Cdâ€“Pt, Alâ€“Sc, Cuâ€“Pd, Pdâ€“Ti, and Irâ€“N binary systems. Journal of Physics Condensed Matter, 2008, 20, 295212.	1.8	26
21	Global space-group optimization problem: Finding the stablest crystal structure without constraints. Physical Review B, 2007, 75, .	3.2	148
22	Strain-Minimizing Tetrahedral Networks of Semiconductor Alloys. Physical Review Letters, 2007, 99, 145501.	7.8	26
23	One-dimensional surface states induced by segregated impurities at transition-metal surfaces. Physica Status Solidi (B): Basic Research, 2006, 243, 2105-2110.	1.5	5
24	Câ€“Fe chains due to segregated carbon impurities on Fe(100). Surface Science, 2006, 600, 3884-3887.	1.9	6
25	Mesoscopic chiral reshaping of the Ag(110) surface induced by the organic molecule PVBA. Journal of Chemical Physics, 2004, 120, 11367-11370.	3.0	40
26	Substrate-induced supramolecular ordering of functional molecules: theoretical modelling and STM investigation of the PEBA/Ag(111) system. Acta Materialia, 2004, 52, 1589-1595.	7.9	15
27	Stereochemical Effects in Supramolecular Self-Assembly at Surfaces:â€‰ 1-D versus 2-D Enantiomorphic Ordering for PVBA and PEBA on Ag(111). Journal of the American Chemical Society, 2002, 124, 7991-8000.	13.7	210