Leon Petit

List of Publications by Year
in descending order

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54	2,170	236925	214800
papers	citations	25	47
		h-index	g-index

55	55	55	2494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic structures of normal and inverse spinel ferrites from first principles. Physical Review B, 2006, 74, .	3.2	251
2	Bulk modulus of CeO2 and PrO2â€"An experimental and theoretical study. Journal of Alloys and Compounds, 2005, 400, 56-61.	5.5	226
3	First-principles study of rare-earth oxides. Physical Review B, 2005, 72, .	3.2	149
4	First-Principles Calculations of PuO2Âx. Science, 2003, 301, 498-501.	12.6	144
5	Electronic structure and ionicity of actinide oxides from first principles. Physical Review B, 2010, 81, .	3.2	123
6	Electronic structure of half-metallic double perovskites. Physical Review B, 2003, 68, .	3.2	72
7	Half-metallic transition metal oxides. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1816-1817.	2.3	70
8	Electronic structure of rare-earth impurities in GaAs and GaN. Physical Review B, 2006, 74, .	3.2	65
9	Rare earth monopnictides and monochalcogenides from first principles: towards an electronic phase diagram of strongly correlated materials. New Journal of Physics, 2010, 12, 113041.	2.9	61
10	Mott transition of MnO under pressure: A comparison of correlated band theories. Physical Review B, 2006, 74, .	3.2	60
11	Electronic structure of samarium monopnictides and monochalcogenides. Physical Review B, 2005, 71, .	3.2	57
12	Ab initiostudy of charge order inFe3O4. Physical Review B, 2003, 68, .	3.2	55
13	Theoretical Study on the Structure, Stability, and Electronic Properties of the Guanineâ^'Znâ^'Cytosine Base Pair in M-DNA. Journal of Physical Chemistry B, 2007, 111, 870-879.	2.6	55
14	Ground-state electronic structure of actinide monocarbides and mononitrides. Physical Review B, 2009, 80, .	3.2	53
15	Ab initiotheory of valency in ytterbium compounds. Physical Review B, 2000, 62, 13394-13399.	3.2	51
16	Electronic structure of transition-metal impurities inp-type ZnO. Physical Review B, 2006, 73, .	3.2	48
17	Self-interaction-corrected local spin density theory of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>5</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:math>electron localization in actinides. Physical Review B, 2007, 76, .	3.2	45
18	Pressure-Induced Valence Transitions in Rare Earth Chalcogenides and Pnictides. Physica Status Solidi (B): Basic Research, 2001, 223, 105-116.	1.5	43

#	Article	IF	Citations
19	Valencies in actinides. Solid State Communications, 2000, 116, 379-383.	1.9	42
20	Electronic structure of Pu monochalcogenides and monopnictides. European Physical Journal B, 2002, 25, 139-146.	1.5	41
21	Electronic structure of Sm and Eu chalcogenides. Physica Status Solidi (B): Basic Research, 2004, 241, 3185-3192.	1.5	40
22	Self-interaction-corrected description of the electronic properties of americium monochalcogenides and monopnictides. Physical Review B, 2001, 63, .	3.2	32
23	Rare-earth/transition-metal magnetic interactions in pristine and (Ni,Fe)-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>YCo</mml:mi><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>GdCo</mml:mi><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2017, 1, .	2.4	31
24	Electronic structure of praseodymium monopnictides and monochalcogenides under pressure. Journal of Physics Condensed Matter, 2004, 16, 4429-4440.	1.8	30
25	Electronic structure of half-metallic ferromagnets and spinel ferromagnetic insulators. Journal of Physics Condensed Matter, 2004, 16, S5587-S5600.	1.8	28
26	5fElectron Localization-Delocalization Transition fromUPd3toUPt3. Physical Review Letters, 2002, 88, 216403.	7.8	24
27	Complex Magnetism of Lanthanide Intermetallics and the Role of their Valence Electrons:AbÂInitioTheory and Experiment. Physical Review Letters, 2015, 115, 207201.	7.8	24
28	Rare-earth pnictides and chalcogenides from first-principles. Journal of Physics Condensed Matter, 2016, 28, 223001.	1.8	24
29	Simple rules for determining valencies of f-electron systems. Journal of Physics Condensed Matter, 2001, 13, 8697-8706.	1.8	23
30	Ground State Valency and Spin Configuration of the Ni Ions in Nickelates. Physical Review Letters, 2006, 97, 146405.	7.8	23
31	First-principles electronic structure of Mn-doped GaAs, GaP, and GaN semiconductors. Journal of Physics Condensed Matter, 2007, 19, 165207.	1.8	22
32	Ab initio charge, spin and orbital energy scales in LaMnO 3. Europhysics Letters, 2004, 65, 519-525.	2.0	19
33	First-order ferromagnetic transitions of lanthanide local moments in divalent compounds: An itinerant electron positive feedback mechanism and Fermi surface topological change. Physical Review B, 2020, 101, .	3.2	15
34	Electronic Structure of Rare Earth Oxides. Topics in Applied Physics, 2006, , 331-343.	0.8	14
35	Phase transitions in rare earth tellurides under pressure. Journal of Physics Condensed Matter, 2014, 26, 274213.	1.8	14
36	Chapter 241 The Dual, Localized or Bandâ€Like, Character of the 4fâ€States. Fundamental Theories of Physics, 2009, 39, 1-112.	0.3	12

#	Article	IF	Citations
37	Ab initio determination of the localized/delocalized f -manifold in UPd 2 Al 3. Europhysics Letters, 2003, 62, 391-397.	2.0	11
38	Pressure induced valence transitions inf-electron systems. Phase Transitions, 2007, 80, 415-443.	1.3	11
39	Experimental and theoretical study of the correlated compound YbCdSn: Evidence for large magnetoresistance and mass enhancement. Physical Review B, 2020, 102, .	3.2	11
40	The effect of high magnetic field on phase stability in Fe-Ni. Journal of Applied Physics, 2004, 95, 6580-6582.	2.5	10
41	Screened real-space Korringa-Kohn-Rostoker description of the relativistic and magnetic properties of transition metals. Journal of Physics Condensed Matter, 2000, 12, 8439-8454.	1.8	6
42	First-principles study of valence and structural transitions in EuO under pressure. Physical Review B, 2014, 90, .	3.2	6
43	Electronic structure and isomer shifts of neptunium compounds. Physical Review B, 2002, 66, .	3.2	5
44	Magnetic properties of Gd intermetallics. Journal of Magnetism and Magnetic Materials, 2018, 448, 9-12.	2.3	5
45	Magnetic structure of selected Gd intermetallic alloys from first principles. Physical Review B, 2020, 101, .	3.2	5
46	Valency configuration of transition metal impurities in ZnO. Journal of Electronic Materials, 2006, 35, 556-561.	2.2	4
47	Effect of pressure on f-electron delocalization and oxidation in actinide dioxides. Journal of Nuclear Materials, 2014, 451, 313-319.	2.7	4
48	First-Principles Calculations of PuO2.+-.x.. ChemInform, 2003, 34, no.	0.0	1
49	Valencies of Mn impurities in ZnO. Materials Research Society Symposia Proceedings, 2004, 825, G2.9.1.	0.1	1
50	Oxide Interfaces Under the Electron Microscope. Microscopy and Microanalysis, 2008, 14, 1346-1347.	0.4	1
51	Self-interaction corrected local spin density calculations of actinides. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012084.	0.6	1
52	A first principles investigation of the electronic structure of actinide oxides. Materials Research Society Symposia Proceedings, 2010, 1265, 1.	0.1	1
53	Analytic expressions for Hubbard models with arbitrary structures in programmable optical lattices. Physical Review A, 2021, 104, .	2.5	1
54	SIC-LSD study of Î´-Pu and PuO2Â±x. Materials Research Society Symposia Proceedings, 2003, 802, 215.	0.1	0