# Leon Petit

List of Publications by Year
in descending order

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Version: 2024-02-01

| 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 | Analytic expressions for Hubbard models with arbitrary structures in programmable optical lattices. Physical Review A, 2021, 104, . | 2.5 | 1 |
| 2 | Experimental and theoretical study of the correlated compound YbCdSn: Evidence for large magnetoresistance and mass enhancement. Physical Review B, 2020, 102, . | 3.2 | 11 |
| 3 | 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 |
| 4 | Magnetic structure of selected Gd intermetallic alloys from first principles. Physical Review B, 2020, 101, . | 3.2 | 5 |
| 5 | Magnetic properties of Gd intermetallics. Journal of Magnetism and Magnetic Materials, 2018, 448, 9-12. | 2.3 | 5 |
| 6 | 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 |
| 7 | Rare-earth pnictides and chalcogenides from first-principles. Journal of Physics Condensed Matter, 2016, 28, 223001. | 1.8 | 24 |
| 8 | Complex Magnetism of Lanthanide Intermetallics and the Role of their Valence Electrons:AbÂInitioTheory and Experiment. Physical Review Letters, 2015, 115, 207201. | 7.8 | 24 |
| 9 | First-principles study of valence and structural transitions in EuO under pressure. Physical Review B, 2014, 90, . | 3.2 | 6 |
| 10 | Phase transitions in rare earth tellurides under pressure. Journal of Physics Condensed Matter, 2014, 26, 274213. | 1.8 | 14 |
| 11 | Effect of pressure on f-electron delocalization and oxidation in actinide dioxides. Journal of Nuclear Materials, 2014, 451, 313-319. | 2.7 | 4 |
| 12 | Self-interaction corrected local spin density calculations of actinides. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012084. | 0.6 | 1 |
| 13 | A first principles investigation of the electronic structure of actinide oxides. Materials Research Society Symposia Proceedings, 2010, 1265, 1. | 0.1 | 1 |
| 14 | Electronic structure and ionicity of actinide oxides from first principles. Physical Review B, 2010, 81, . | 3.2 | 123 |
| 15 | 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 |
| 16 | Ground-state electronic structure of actinide monocarbides and mononitrides. Physical Review B, 2009, 80, . | 3.2 | 53 |
| 17 | Chapter 241 The Dual, Localized or Bandâ€Like, Character of the 4fâ€States. Fundamental Theories of Physics, 2009, 39, 1-112. | 0.3 | 12 |
| 18 | Oxide Interfaces Under the Electron Microscope. Microscopy and Microanalysis, 2008, 14, 1346-1347. | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Pressure induced valence transitions inf-electron systems. Phase Transitions, 2007, 80, 415-443. | 1.3 | 11 |
| 21 | First-principles electronic structure of Mn-doped GaAs, GaP, and GaN semiconductors. Journal of Physics Condensed Matter, 2007, 19, 165207. | 1.8 | 22 |
| 22 | 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 |
| 23 | Electronic Structure of Rare Earth Oxides. Topics in Applied Physics, 2006, , 331-343. | 0.8 | 14 |
| 24 | Electronic structures of normal and inverse spinel ferrites from first principles. Physical Review B, 2006, 74, . | 3.2 | 251 |
| 25 | Valency configuration of transition metal impurities in ZnO. Journal of Electronic Materials, 2006, 35, 556-561. | 2.2 | 4 |
| 26 | Electronic structure of transition-metal impurities inp-type ZnO. Physical Review B, 2006, 73, . | 3.2 | 48 |
| 27 | Electronic structure of rare-earth impurities in GaAs and GaN. Physical Review B, 2006, 74, . | 3.2 | 65 |
| 28 | Ground State Valency and Spin Configuration of the Ni Ions in Nickelates. Physical Review Letters, 2006, 97, 146405. | 7.8 | 23 |
| 29 | Mott transition of MnO under pressure: A comparison of correlated band theories. Physical Review B, 2006, 74, . | 3.2 | 60 |
| 30 | Electronic structure of samarium monopnictides and monochalcogenides. Physical Review B, 2005, 71, . | 3.2 | 57 |
| 31 | Bulk modulus of CeO2 and PrO2â€"An experimental and theoretical study. Journal of Alloys and Compounds, 2005, 400, 56-61. | 5.5 | 226 |
| 32 | First-principles study of rare-earth oxides. Physical Review B, 2005, 72, . | 3.2 | 149 |
| 33 | Electronic structure of praseodymium monopnictides and monochalcogenides under pressure. Journal of Physics Condensed Matter, 2004, 16, 4429-4440. | 1.8 | 30 |
| 34 | The effect of high magnetic field on phase stability in Fe-Ni. Journal of Applied Physics, 2004, 95, 6580-6582. | 2.5 | 10 |
| 35 | Valencies of Mn impurities in ZnO. Materials Research Society Symposia Proceedings, 2004, 825, G2.9.1. | 0.1 | 1 |
| 36 | Electronic structure of Sm and Eu chalcogenides. Physica Status Solidi (B): Basic Research, 2004, 241, 3185-3192. | 1.5 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Half-metallic transition metal oxides. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1816-1817. | 2.3 | 70 |
| 38 | Ab initio charge, spin and orbital energy scales in LaMnO 3. Europhysics Letters, 2004, 65, 519-525. | 2.0 | 19 |
| 39 | Electronic structure of half-metallic ferromagnets and spinel ferromagnetic insulators. Journal of Physics Condensed Matter, 2004, 16, S5587-S5600. | 1.8 | 28 |
| 40 | First-Principles Calculations of PuO2.+-.x.. ChemInform, 2003, 34, no. | 0.0 | 1 |
| 41 | Ab initiostudy of charge order inFe3O4. Physical Review B, 2003, 68, . | 3.2 | 55 |
| 42 | First-Principles Calculations of PuO2Âx. Science, 2003, 301, 498-501. | 12.6 | 144 |
| 43 | Electronic structure of half-metallic double perovskites. Physical Review B, 2003, 68, . | 3.2 | 72 |
| 44 | SIC-LSD study of Î´-Pu and PuO2Â±x. Materials Research Society Symposia Proceedings, 2003, 802, 215. | 0.1 | 0 |
| 45 | Ab initio determination of the localized/delocalized f -manifold in UPd 2 Al 3. Europhysics Letters, 2003, 62, 391-397. | 2.0 | 11 |
| 46 | 5fElectron Localization-Delocalization Transition fromUPd3toUPt3. Physical Review Letters, 2002, 88, 216403. | 7.8 | 24 |
| 47 | Electronic structure and isomer shifts of neptunium compounds. Physical Review B, 2002, 66, . | 3.2 | 5 |
| 48 | Electronic structure of Pu monochalcogenides and monopnictides. European Physical Journal B, 2002, 25, 139-146. | 1.5 | 41 |
| 49 | Simple rules for determining valencies of f-electron systems. Journal of Physics Condensed Matter, 2001, 13, 8697-8706. | 1.8 | 23 |
| 50 | Pressure-Induced Valence Transitions in Rare Earth Chalcogenides and Pnictides. Physica Status Solidi (B): Basic Research, 2001, 223, 105-116. | 1.5 | 43 |
| 51 | Self-interaction-corrected description of the electronic properties of americium monochalcogenides and monopnictides. Physical Review B, 2001, 63, . | 3.2 | 32 |
| 52 | Valencies in actinides. Solid State Communications, 2000, 116, 379-383. | 1.9 | 42 |
| 53 | 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 |
| 54 | Ab initiotheory of valency in ytterbium compounds. Physical Review B, 2000, 62, 13394-13399. | 3.2 | 51 |