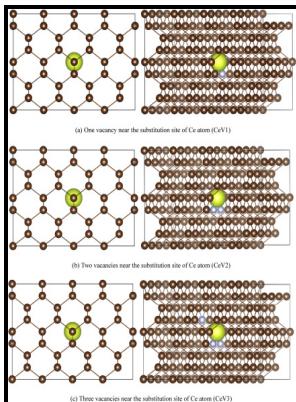


First-principles calculations of spectral properties of rare earth and transition metal ions in crystals, 2006

Transworld Research Network - First principles calculation of spin



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Spectroscopy of rare earth oxide systems. I. Far infrared spectra of the rare earth sesquioxides, cerium dioxide and nonstoichiometric praseodymium and terbium oxides

In Supplementary material chapter we show that for smaller rare earth ion LuNiO₃ the paramagnetic insulating state is stable at 100 K in the absence of magnetism. As our model predicts negligible total charge difference on the two Ni sites, the X-ray scattering needs an alternative explanation. Rietveld refinement of the collected data was carried out using FULLPROF software.

How Can We Control the “Element

The microcrystalline KDP samples with the same particle sizes were used as references. About 1000 k-points are considered for computing the DOS, where we first compute the quasiparticle energies in a sparse k-mesh and then interpolate to a much finer k-mesh.

Chapter 231 First

To address the issue of Ni valence, we use recently derived exact double-counting between the DFT and DMFT methods. A cut-KDP 110 wafer was used as a reference. Note that this electronic configuration gives rise to a dynamic Jahn–Teller system with strong electron–phonon interaction and effective C_{3v} symmetry when the axis of the pair defect is parallel to the high symmetry axis of the host material.

Synthesis, Structures, and Magnetic Properties of Rare

Luminescence lifetimes were measured by a 340 nm laser diode with 1 ns pulse width. This is much higher than the actual saturation value of 1.

Massive Stokes shift in 12

Isovalue increases from blue to red, and the maximum electron localization function value is scaled to 4. As the core energy is very sensitive to the amount of the charge on Ni ion, it is generally accepted that the difference in the core energy comes from the different charge accumulated on Ni 1 and Ni 2 ions.

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