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(r Ni-O)

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Ba_2VO_4; K_3CrO_3; Ba_2CrO_4; Ba_2MoO_4;
Ba_2WO_4; K_2MnO_4; K_3MnO_4; Li_3ReO_4; Ba_2CoO_4
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total energies calcd. within the at. sp approxn. were used to det. the ground state properties of these compds. calcd. equil. lattice const. and the bulk modulus were found to be in agr with the exptl. results. The pressure-vol. relations were calcd. for the compds. and compared with the available exptl. results. For BaNi2P2, the pressure-vol. data are not available for comparison. There are character differences in the band structures of these compds. in the vicinity of th level. The formation of P-P bonding in CaNi2P2 and no such bonding in Sr and BaNi2P2 are discussed in terms of the band structures and charge d. p these compds.