

Assessing structural bonding aspects of multiband superconductors through impurity-induced local lattice distortions : a case study on MgB₂

Pishtshev, Aleksandr; Klopov, Mihhail International journal of quantum chemistry 2013 / p. 643-650 : ill

<https://doi.org/10.1002/qua.24024> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

A comparative study of structural energetics and chemical bonding in Ca-based dielectric materials : an integrated view from first-principles calculations

Pishtshev, Aleksandr; Klopov, Mihhail "Functional materials and nanotechnologies" FM&NT-2012 : 17.-20.04.2012, Riga, Latvia : [abstracts] 2012 / p. 117

Electronic and optical properties of magnesium and calcium hydroxides : the role of covalency and many-body effects

Pishtshev, Aleksandr; Karazhanov, S. Zh.; Klopov, Mihhail Joint 12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference Functional Materials and Nanotechnologies : Institute of Solid State Physics, University of Latvia, September 29-October 2, Riga, Latvia : book of abstracts 2014 / p. 258

Electronic and optical properties of magnesium and calcium hydroxides : the role of covalency and many-body effects

Karazhanov, Smagul Zh.; Pishtshev, Aleksandr; Klopov, Mihhail Physica Scripta 2015 / art. 094015 <https://doi.org/10.1088/0031-8949/90/9/094015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Excitons in Mg(OH)₂ and Ca(OH)₂ from ab initio calculations

Pishtshev, Aleksandr; Karazhanov, S. Zh.; Klopov, Mihhail Solid state communications 2014 / p. 11-15 : ill

<https://doi.org/10.1016/j.ssc.2014.05.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Local lattice distortions induced by impurities in MgB₂ : an integrated view from first principle calculations

Klopov, Mihhail; Pishtshev, Aleksandr 14th International Density Functional Theory Conference : Ateena, 2011, 29 August - 02 September 2011 / p. 55

Materials properties of magnesium and calcium hydroxides from first-principles calculations

Pishtshev, Aleksandr; Karazhanov, S. Zh.; Klopov, Mihhail Computational materials science 2014 / p. 693-705 : ill

<https://doi.org/10.1016/j.commatsci.2014.07.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modeling of self-localized vibrations and defect formation in solids

Hižnjakov, Vladimir; Haas, Mati; Pishtshev, Aleksandr; Šelkan, Aleksander; Klopov, Mihhail Nuclear instruments and methods in physics research section B-beam interactions with materials and ato 2013 / p. 91-94 : ill <https://doi.org/10.1016/j.nimb.2013.01.055>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The interplay of long range interactions and electron density distributions in polar and strongly correlated materials

Kristoffel, Nikolai; Pishtshev, Aleksandr; Rubin, Pavel; Klopov, Mihhail Journal of superconductivity and novel magnetism 2017 / p. 91-96 : ill <https://doi.org/10.1007/s10948-016-3765-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Journal metrics at WOS](#)

The Spin-1/2 Heisenberg model on one-third-depleted square lattice: exact diagonalization study

Rubin, Pavel; Pishtshev, Aleksandr; Klopov, Mihhail Journal of the Physical Society of Japan 2020 / art. 034707, 4 p

<https://doi.org/10.7566/JPSJ.89.034707>