

Creation of defects in solids: effect of long-range forces

Hižnjakov, Vladimir; Haas, Mati; **Klopov, Mihhail**; Šelkan, Aleksander Advances in applied physics and materials science congress : 12.-15.05.2011, Antalya, Turkey. Vol. 1 2011 / p. 467

Enhanced mobility of high-frequency discrete breathers in a monatomic chain with odd anharmonicity

Šelkan, Aleksander; **Klopov, Mihhail**; Hižnjakov, Vladimir Physics letters A 2019 / p. 1893-1896 : ill

<https://doi.org/10.1016/j.physleta.2019.03.025> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High frequency intrinsic localized modes in solids: an example of metallic Ni

Hižnjakov, Vladimir; Haas, Mati; **Klopov, Mihhail**; Šelkan, Aleksander Book of abstracts. Programme : 3rd Bilateral Estonian-German Workshop "Strong Nonlinear Vibronic and Electronic Interactions in Solids" : Cottbus, Germany, June 13-15, 2011 2011 / p. 39

Modeling of defect formation and self-localized vibrations in solids

Hižnjakov, Vladimir; Haas, Mati; Šelkan, Aleksander; **Klopov, Mihhail** 2012 Computer Simulation of Radiation Effects in Solids, Santa Fe, New Mexico, USA, June 24-29, 2012 : COSIRES 2012 program book 2012 / p. 24

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

Prediction of high-frequency intrinsic localized modes in Ni and Nb

Haas, Mati; Hižnjakov, Vladimir; Šelkan, Aleksander; **Klopov, Mihhail**; Sievers, A.J. Physical review B 2011 / p. 144303-1 - 144303-8 : ill

Standing and moving discrete breathers with frequencies above the phonon spectrum

Hižnjakov, Vladimir; Haas, Mati; Šelkan, Aleksander; **Klopov, Mihhail** Quodons in mica : nonlinear localized travelling excitations in crystals 2015 / p. 229-245 : ill http://dx.doi.org/10.1007/978-3-319-21045-2_9

Theory and molecular dynamics simulations of intrinsic localized modes and defect formation in solids

Hižnjakov, Vladimir; Haas, Mati; Šelkan, Aleksander; **Klopov, Mihhail** Physica scripta 2014 / p. 1-5 : ill

Transverse intrinsic localized modes in monatomic chain and in graphene

Hižnjakov, Vladimir; **Klopov, Mihhail**; Šelkan, Aleksander Physics letters A 2016 / p. 1075–1081
<http://dx.doi.org/10.1016/j.physleta.2016.01.011>