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Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Ведущий научный сотрудник

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Публикации

Статья

Investigations of the Structure and Morphology of CsPbBr3 Films Deposited by Vacuum Thermal Evaporation [Исследования структуры и морфологии пленок CsPbBr3, осажденных методом вакуумного термического испарения]
L. A. Matevosyan, S. A. Petrosyan, V. P. Mkrtchyan, A. P. Aivazyan, V. S. Harutyunyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 202-209

Статья

Investigation of structural and optical properties of CsPbBr3 films synthesized by single-source vacuum evaporation method
Valeri Harutyunyan, Lenrik Matevosyan, Vahram Mkrtchyan, Gayane Pluzyan, Sargis Petrosyan,

Anna Tokmajyan
IET conference proceedings. 2024 38-41/208333

Статья

Residual stress on ettringite crystals in mature Type K shrinkage-compensating cement pastes
Valeri S. Harutyunyan, Ashot P. Aivazyan, Vahram P. Mkrtchyan, Paulo J.M. Monteiro,

Ana Paula Kirchheim, Sebastian Prinz

Construction and Building Materials 2023 132892

Статья

XRD and combined SEM-EDS analysis of long-term hydration products of ye’elimite
Valeri S. Harutyunyan
Materials Chemistry and Physics 2022 125373

Статья

Analysis of hydration products, hydration degree, and CO2 capture in “ye'elimite –H2O” system by X-ray diffraction, combined SEM-EDS, and FTIR techniques
Valeri S. Harutyunyan
Journal of the Taiwan Institute of Chemical Engineers 2022 104222

Статья

Electro Spark Synthesis of α-WC Powder and Study of Its Phase Transformations upon Annealing
V. S. Harutyunyan, L. A. Petrosyan, A. V. Aganyan, A. N. Avagyan, A. K. Kostanyan, S. G. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 382–388

Статья

The Madelung constant and bonding angle as “sensors” of the high-pressure induced amorphization and first-order isostructural phase transition in Mg(OH)2 and Ca(OH)2

Valeri S. Harutyunyan

JOURNAL OF SOLID STATE CHEMISTRY 2021 121993(10pages)

Образовательный Руководство

Պինդ մարմնի ֆիզիկայի լաբորատոր աշխատանքներ. մաս 2

Ալբերտ Կիրակոսյան, Արշակ Վարդանյան, Աննա Ասատրյան, Արամ Մանասելյան,

Վալերի Հարությունյան

2021 190

Статья

Anomalous behavior of the Madelung constant and I–Fe–I bonding angle at high-pressure induced structural phase transition of FeI2

V.S. Harutyunyan

Materials Chemistry and Physics 2020 122315(1-9)

Статья

Analytic dependence of the Madelung constant on lattice parameters for 2D and 3D metal diiodides (MI2) with CdI2 (2H polytype) layered structure

V S Harutyunyan

Materials Research Express 2020 026301(1-11)

Статья

Determination of the complete set of optical parameters of micronsized polycrystalline CH3NH3PbI3−xClx films from the oscillating transmittance and reflectance spectra

Gevorkian Zhyrair, Matevosyan Lenrik, Avjyan Karapet, Harutyunyan Valeri, Aleksanyan Eduard,

Manukyan Khachatur

Materials Research Express 2020 016408(1-7)

Статья

Correlation of the Madelung constant and I—M—I bonding angle with cohesive energy contributions in layered metal diiodides (MI2) with CdI2 (2H polytype) structure

Valeri S. Harutyunyan

Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials 2020 1045 - 1054

Статья

Residual stress on ettringite crystals in expansive cement paste

V.S.Harutyunyan, A.P.Aivazyan, V.P.Mkrtchyan

Proceedings of the YSU A Physical and Mathematical Sciences 2017 105-108

http://www.ysu.am/science/en/journals

Статья

Stress field of a near-surface basal screw dislocation in elastically anisotropic hexagonal crystals

Valeri S. Harutyunyan, Ashot P. Aivazyan, Andrey N. Avagyan

AIMS Materials Science 2017 1202-1219

http://www.aimspress.com/article/10.3934/matersci.2017.6.1202

Конференция

Study of microstructural peculiarities and deformation state of ettringite crystals in Type K cement pastes by FTIR spectroscopy, optical microscopy, combined SEM-EDS, and XRD techniques

V.S. Harutyunyan, A.P. Aivazyan, V.P. Mkrtchyan, P.J.M. Monteiro, A.P. Kirchheim

2016 44-45

http://www.rau.am/optics2016/geninfo.php

Статья

Application of Ca(OH)2 - Comprising Dispersions in CO2 Capture and Sequestration Technologies

Valeri S.Harutyunyan, Ashot P.Aivazyan

Recent Patents on Materials Science 2015 2-14

http://benthamscience.com/journals/recent-patents-on-materials-science/

Конференция

Strain relaxation in AlN−sapphire (0001) heterostructure

V.S. Harutyunyan, E.R. Weber

2015 39-40

http://www.dom-events.org/

Статья

X-ray Diffraction Investigations of Microstructure of calcium Hydroxide Crystallites in the Interfacial Transition Zone of Concrete

Valeri S.Harutyunyan, Vahram P.Mkrtchyan, Minas K.Balyan, Ashot P.Aivazyan, Eduard S. Abovyan,

Paulo J.M.Monteiro

Journal of the American Ceramic Society 2003 2162-2166

http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1551-2916

Статья

Micro strain distribution in calcium hydroxide present in the interfacial transition zone

V.S.Harutyunyan, V.P.Mkrtchyan, M.K.Balyan, E.S.Abovyan, P.J.M.Monteyro

Cement and Concrete Research 2000 709-713

http://www.journals.elsevier.com/cement-and-concrete-research

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