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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

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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)

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

V.S. Harutyunyan

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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

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Determination of the complete set of optical parameters of micronized polycrystalline CH₃NH₃PbI₃-xCl_x films from the oscillating transmittance and reflectance spectra

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

Manukyan Khachatur

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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

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Residual stress on ettringite crystals in expansive cement paste

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

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

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

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

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Valeri S.Harutyunyan, Ashot P.Aivazyan

Recent Patents on Materials Science 2015 2-14

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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

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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

Конференция

Strain relaxation in AlN–sapphire (0001) heterostructure

V.S. Harutyunyan, E.R. Weber

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, P.J.M. Monteiro, A.P. Kirchheim, V.P. Mkrtchyan
