

Publications

Article

X-ray dynamical diffraction wavefront division interferometer (double-slit diffraction) with an asymmetric monochromator. Corrigendum

Vahram Mkrtchyan, Minas Balyan, Sargis Petrosyan, Ashot Aivazyan

Acta Crystallographica Section A Foundations and Advances 2026 228

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Article

X-Ray Dynamical Diffraction Interferometer with Wave Front Division Using Two Asymmetrical Reflections [Рентгеновский динамический дифракционный интерферометр с разделением волнового фронта с использованием двух асимметричных отражений]

M. K. Balyan, V. P. Mkrtchyan, A. P. Aivazyan, S. A. Petrosyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2026 62-70

<https://link.springer.com/article/10.1134/S1068337226700301>

Article

Double-Slit X-Ray Dynamical Diffraction in the Transmitted Beam [Рентгеновская динамическая дифракция на двух щелях в проходящем пучке]

A. P. Aivazyan, M. K. Balyan, S. A. Petrosyan, V. P. Mkrtchyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 101-107

Article

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

Article

X-ray dynamical diffraction wavefront division interferometer (double-slit diffraction) with an asymmetric monochromator

Vahram Mkrtchyan, Minas Balyan, Sargis Petrosyan, Ashot Aivazyan

Acta Crystallographica Section A Foundations and Advances 2025 438-448

Conference

Double-Slit X-ray Dynamical Diffraction in the Transmitted and Diffracted Beams

A. P. Aivazyan, M. K. Balyan, S. A. Petrosyan, V. P. Mkrtchyan

2025 70 - 70

<https://school.iapp.am/hy/%D5%A3%D5%AC%D5%AD%D5%A1%D5%BE%D5%B8%D6%80/>

Article

Measurements of the geometrical characteristics and refractive index of specimens made

with X-ray interferometers

Vahram Mkrtchyan, Ashot Aivazyan, Sargis Petrosyan, Minas Balyan

Journal of Applied Crystallography 2024 499-502

Article

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

Article

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>

Article

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/materci.2017.6.1202>

Conference

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

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Article

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/>

Article

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

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