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Acta Crystallographica A-Foundation and Advances 2023 14-19

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L.V. Levonyan, H.M. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 203–209

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Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 120-124

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**X-ray Phase Contrast at Diffraction Focusing of a Spherical Wave in a Short-Period Superlattice**

L.V.Levonyan, H.M.Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 92-94

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L.V.Levonyan, H.M.Manukyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2017 113-116

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

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Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 95-101

<http://www.flib.sci.am/eng/Fizika/Frame.html>

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*Статья*

**TRANSMISSION OF NARROW SOUND BEAMS IN NONLINEAR ENVIRONMENT**

S.M.MANUKYAN, A.A.BUTAVYAN, H.M.MANUKYAN

Proceedings of the YSU A. Physical and Mathematical Sciences 2016 45-51

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

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*Статья*

**Dynamical Diffraction of Spherical X-ray Wave on a Superlattice**

L. V. Levonyan, H. M. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 73-78

<http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958>

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**Integrated Intensity of X-ray Reflection from a Superlattice with a Stacking Fault**

H.M.Manukyan, S.M.Manukyan

Proceedings of the International Conference on Electron, Positron, Neutron and X –Ray Scattering under External Influences

2016 224-229

<https://istina.msu.ru/collections/24207893/>

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Статья

**Study of Superlattices by Diffraction Focusing of X-ray Radiation**

L.V.Levonyan, H.M.Manukyan

Proceedings of the International Conference on Electron, Positron, Neutron and X-Ray Scattering under External Influences  
2016 101-106

<https://istina.msu.ru/collections/24207893/>

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H.M.Manukyan, S.M.Manukyan

Journal of Physics: Conference Series 2016 1-6

<http://iopscience.iop.org/journal/1742-6596>

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H. M. MANUKYAN, S. M. MANUKYAN

Proceedings of the YSU A. Physical and Mathematical Sciences 2015 55-58

<http://www.yasu.am/science/en/journals>

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**ВЛИЯНИЕ ВЗАИМНОЙ ДИФФУЗИИ ГЕТЕРОМАТЕРИАЛОВ НА ДИФРАКЦИЮ РЕНТГЕНОВСКИХ ЛУЧЕЙ НА СВЕРХРЕШЕТКЕ С ДЕФЕКТОМ УПАКОВКИ**

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Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2014  
360-365

<http://www.flib.sci.am/eng/Fizika/Frame.html>

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