Abstract Submitted
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Wide Angle X-ray Diffraction for Shocked Periclase YOICHIRO HIRONAKA, KEISUKE SHIGEMORI, TOSHIHIKO KADONO, KEISUKE FUJIOKA, MINORU TANABE, AKIYUKI SHIROSHITA, NORIMASA OZAKI, KOHEI MIYANISHI, TADASHI KONDO, TASUHIRO SAKAIYA, KATSUYA SHIMIZU, KAZUTO OTANI — We performed wide angle X-ray diffraction for laser shocked single crystal to measure the perfect atomic uniaxial motion near the Hugoniot elastic limit Wide angle X-ray diffraction technique is enabled to identify the three dimensional lattice deformation under shocked crystal. We detected X-rays diffracted from multiple planes of MgO single crystal.

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