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[Image PDF (919K)] [References]

Isotope Separation of Silicon by Use of Mid-Infrared Free Electron Laser

Keiji NOMARU[1)] and Haruo KURODA[1)]

1) Research Institute for Science and Technology, The Tokyo University of Science

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Abstract: Mid-infrared free electron laser (MIR-FEL) is an attractive light source for laser isotope separation because of its wavelength tunability and high output pulse energy. Several demonstrations have already done in the world FEL facilities. In this review, the recent results of isotope separation by use of MIR-FEL are described with our experimental result of silicon isotope separation by use of phenyltrifluorosilane.

Key Words: Free electron laser, Infrared multi-photon dissociation, Isotope separation, Selective photochemical reaction, Silicon

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