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Fe/S sample preparation: A method for the calculation of the S concentration required for doping Fe crystals

A method is proposed for the preparation of Fe/S samples using molecular Sulfur to dope Iron samples at high temperatures. Using Fick's semi-infinite diffusion model the time needed to obtain a certain bulk concentration at a specified temperature is calculated. Experimental results obtained this far confirms the possibility of such an experiment.

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Track Classification: Track A - Condensed Matter Physics and Material Science