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Nano-sized boron synthesis process towards the large scale production Vignolo, Maurizio; Matera, Davide; Bernini, Cristina K; Siri, Antonio Sergio K; Bovone, Gianmarco; et al. Chemical Engineering Journal 256 (Nov 15, 2014): 32-38.

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AΒ

■ Abstract (summary) Translate

In the present paper a new process for large scale production of nano-sized boron is reported. The process can be summarized in several steps: boron oxide solubilization in hot water, cryogenic freezing of liquid phase, freezing-drying process, magnesiothermic reduction of boron oxide, boron purification. Each step is described in order to show the innovations and then the purified boron has been employed to synthesize the superconducting MgB2 powder. It is worth to note that for the first time the same MgB2 precursors were used to prepare the superconducting phase following four different techniques and the results directly compared. So several MgB2 conductors were prepared applying different techniques, ex-situ, in-situ, via MgB4 and RLI, and then their superconducting properties investigated. Furthermore morphology, grain size and purity of B and MgB2 powder were analyzed by SEM analysis and X-ray diffraction technique. © 2014 Elsevier B.V.

SUBT, SU

Subject Boron (major); Freezing (major);

Purification (major); Superconductivity (major); X ray diffraction (major)

IF Identifier (keyword) CC

Nano-sized boron, Synthesis process

902: FLUIDEX; Related Topics

Classification

Title

Nano-sized boron synthesis process towards the large scale production

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CODEN	CODEN	coden(CMEJA)		
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ISBN	ISBN	isbn(9781870918015)		
ISSN	ISSN	issn(13858947)		
Issue	ISS	iss(4)	Also searchable by the Look Up Citation tool.	
Journal title	JN	jn("chemical engineering journal")	Displayed in Publication title. Look-Up list available under Publication title.	
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Publication date	PD	pd(20141115) pd(>=20110425) pd(20110501-20110731)	Also searchable by the Look Up Citation tool.	
Publication title ¹	PUB	pub("chemical engineering journal")	Includes all Publication names, including conference titles. Journal names also searchable using JN.	
Publication type	PSTYPE	pstype(books)	Preferred search uses Document type (DTYPE).	
Publication year	YR	yr(2012)	Single year or a range of years may be searched. Displayed within Publication date.	
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