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反跳粒子検出法を用いた酸化物セラミックス中の軽元素の動的挙動解析

Dynamic Behavior of Elements with Low Atomic Numbers in Oxide Ceramics

Using Elastic Recoil Detection Technique

学術論文（査読あり）

[1] N. Matsunami, T. Teramoto, S. Okayasu, M. Sataka and B. Tsuchiya, “Modifications of WN_xO_y Films by Ion Impact”, *Sur. Coat. Technol.*, **355**, 84-89 (2018).

[2] N. Matsunami, S. Okayasu, M. Sataka and B. Tsuchiya, “Ion Irradiation Effects on WN_xO_y Thin Films”, *Nucl. Instr. and Meth. in Phys. Res.*, **B 435**, 146-151 (2018).

[3] K. Morita, B. Tsuchiya, J. Ohnishi, T. Yamamoto, Y. Iriyama, H. Tsuchida, T. Majima and K. Suzuki, “High Resolution Li Depth Profiling of Solid State Li Ion Battery by TERD Technique with High Energy Light Ions”, *Nucl. Instr. and Meth. in Phys. Res.*, **B 426**, 30-33 (2018).

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学術論文（査読なし）

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博士論文

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修士論文

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[2]

卒業論文

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国際会議

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[1] 土屋文、杉山知子、大矢恭久、奥野健二、宮岡裕樹、小島由継、市川貴之、徳永和俊、“リチウム–ジルコニウム酸化物セラミックスの常温水分解・水素吸蔵特性”、日本金属学会 春の大会(東京電機大学 2019年3月20-22日) 講演番号 53

[2] 土屋文、高廣克己、山本春也、“反跳粒子検出法を用いた全固体リチウムイオン二次電池内のリチウム移動その場測定”、日本金属学会 秋の大会(東北大学 2018年9月19-21日) 講演番号 334

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招待講演等

[1] B. Tsuchiya, T. Yamamoto, K. Ohsawa and M. Yamawaki, “Defect Formation Energies Due to Hydrogen-dopants on Interstitial Sites in Uranium Intermetallic Compounds“, The 2018 Energy Material Nanotechnology (EMN) Meeting on Computation and Theory, San Sebastian in Spain, September 3-7, 2018, 招待講演

[2] B. Tsuchiya, S. Yamaguchi, H. Miyaoka, T. Ichikawa and Y. Kojima, “Dependence of hydrogen-storage and -release on density of oxide ceramics exposed in air at room temperature“, The International Conference on Processing and Manufacturing of Advanced Materials (THERMEC-2018), Paris in France, July 8-13, 2018, 招待講演

解説・記事等

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新聞発表等

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特許等

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