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## イオンビーム分析法を用いたリチウム酸化物セラミックスの 水分解による水素吸収特性評価

### Estimation of Hydrogen Absorbed into Lithium-oxide Ceramics Due to Water Dissociation by Ion Beam Analysis

学術論文 (査読あり)

- [1] K. Morita, B. Tsuchiya, H. Tsuchida and T. Majima, "In-situ Total Li Depth Profiling of Solid State Li Ion Batteries Under Charging and Discharging by Means of Transmission Elastic Recoil Detection Analysis with 5 MeV He<sup>2+</sup> Ions", Nucl. Instr. and Meth. in Phys. Res., B 479, 249-253 (2020).
- [2] V. Mathayan, M. V. Moro, K. Morita, B. Tsuchiya, R. Ye, M. Baba and D. Primetzhofer, "In-operando Observation of Li Depth Distribution and Li Transport in Thin Film Li Ion Batteries", Appl. Phys. Lett., 117, 023902, 1-5 (2020).
- [3] K. Suzuki, B. Tsuchiya, K. Yasuda and Y. Nakata, "Light Element Analysis of Ceramics Using in-air ERDA and TOF-ERDA", Nucl. Instr. and Meth. in Phys. Res., B 478, 169-173 (2020).
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- [5] N. Matsunami, N. Ohno, M. Tokitani, B. Tsuchiya, M. Sataka and S. Okayasu, "Modifications of WNO<sub>x</sub> Films by keV D and H Ions", Sur. Coat. Technol., 394, 125798 (2020).
- [6] K. Morita, B. Tsuchiya, H. Tsuchida and T. Majima, "Li Depth Profiles of Metal/Li-electrolyte/Metal Capacitors Under Biasing Studied by Means of MeV Ion Beam Analysis Techniques", Solid State Ionics, 344, 115085-5 (2020).
- [7] K. Morita, B. Tsuchiya, H. Tsuchida and T. Majima, "Change in Li Depth Profiles of Au/LCO/mixed LATP-LAGP/Pt Battery Under Discharging Studied by Ion Beam Analysis Techniques with 9 MeV O<sup>4+</sup> Ions", Solid State Ionics, 344, 115135-5 (2020).

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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卒業論文

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国際会議

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国内会議

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招待講演等

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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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