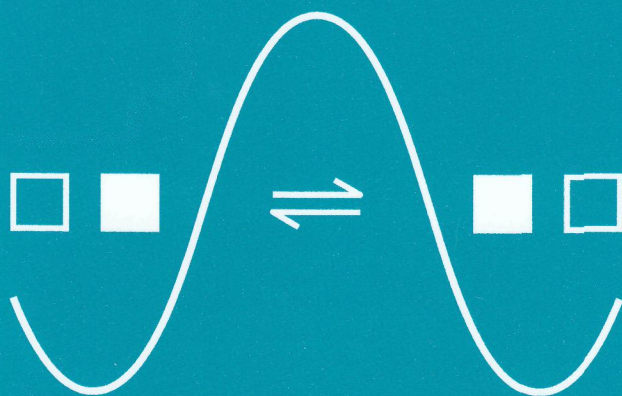


SOLID STATE IONICS

DIFFUSION & REACTIONS



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Solid State Ionics

Volume 238, Pages 1-50 (1 May 2013)

Editorial Board

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Effect of Ni doping on structural, electrical and electrochemical properties of $Nd_{1.8}Ce_{0.2}Cu_{1-x}Ni_xO_{4+\delta}$ mixed ionic–electronic conductor

Original Research Article

Pages 1-6

A.P. Khandale, S.S. Bhoga, R.V. Kumar

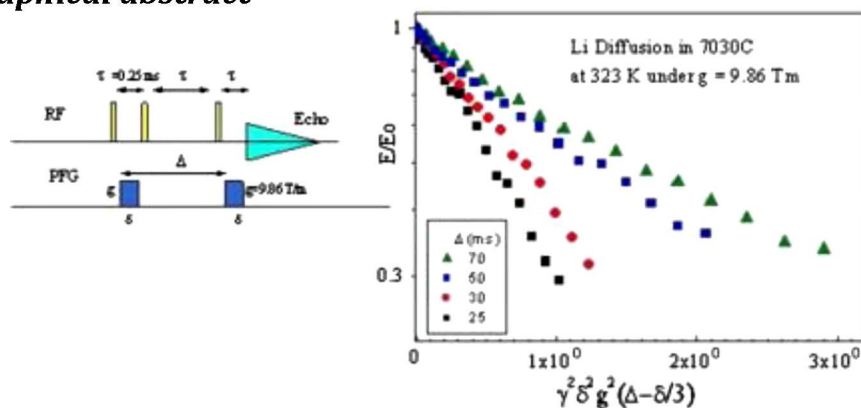
Lithium ion diffusion in solid electrolyte $(Li_2S)_7(P_2S_5)_3$ measured by pulsed-gradient spin-echo 7Li NMR spectroscopy

Original Research Article

Pages 7-14

Kikuko Hayamizu, Yuichi Aihara

Graphical abstract



Highlights

•

A crystalline solid electrolyte $(Li_2S)_7(P_2S_5)_3$ was prepared by high-energy ball milling.

•

Ionic conductivity was measured between 263 and 353 K.

•

7Li migration behaviors were measured by pulsed-gradient spin-echo (PGSE) NMR method.

Lithium ion translational movement scatters in various manners.

Sulphur poisoning of the SOFC cathode material $La_{0.6}Sr_{0.4}CoO_{3-\delta}$

Original Research Article

Pages 15-23

Edith Bucher, Christian Gspan, Ferdinand Hofer, Werner Sitte

In depth discussion of selected phenomena associated with intrinsic battery hysteresis: Battery electrode versus rubber balloons

Original Research Article

Pages 24-29

Joze Moskon, Janko Jamnik, Miran Gaberscek

A novel sulfur/polypyrrole/multi-walled carbon nanotube nanocomposite cathode with core-shell tubular structure for lithium rechargeable batteries

Original Research Article

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Yongguang Zhang, Yan Zhao, The Nam Long Doan, Aishuak Konarov, Denise Gosselink, Hayden Greentree Soboleski, P. Chen

Structural and electrical properties of Pb-substituted $La_2Mo_2O_9$ oxide ion conductors

Original Research Article

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Shigeomi Takai, Yuki Doi, Shuki Torii, Junrong Zhang, T.Y.S. Panca Putra, Ping Miao, Takashi Kamiyama, Takao Esaka

A sulfur-carbon composite for lithium/sulfur battery based on activated vapor-grown carbon fiber

Original Research Article

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