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Significant advances in our understanding of the electrochemistry of the solid state have taken place over the last 30 years. The subject has grown rapidly and is now closer to the more established electrochemistry in liquid electrolytes than

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at any time since
Faraday's pioneering
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such as oxides, halides, and cation conductors; and electrochemical kinetics and mechanisms of reactions occurring on solid electrolytes, including gas-phase electrocatalysis. The fundamentals are presented, including structural and defect chemistry, diffusion and transport in solids, conductivity and electrochemical reaction.

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and theoretical, basic and applied work. It equally publishes papers on the thermodynamics and kinetics of electrochemical reactions if at least one actively participating phase is solid.

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SIBEE (Brazilian Symposium on Electrochemistry and

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Electroanalytical
Chemistry), 1. – 5.
September 2019,
Ribeirão Preto, São
Paulo, Brazil. July 2020,
issue 7. Special Topical
issue of Journal of Solid
State Electrochemistry:
“Electrochemistry of
proton-conducting
ceramic materials and
cells” June 2020, issue
6; May 2020, issue 5;
April ...

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ESL was the first rapid-publication electronic journal dedicated to covering the leading edge of research and development in the field of solid-state and electrochemical science and technology. ESL was a joint publication of ECS and IEEE Electron Devices Society.

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Electrochemical CO₂ reduction to high-concentration pure

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An ultrathin robust

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polymer membrane for wearable solid ...

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Solid-State Lithium Batteries: Bipolar Design, Fabrication

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**PRiME 2020, October
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