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(54) **NANOFIBER POLYMER COMPOSITE
CATHODES**

(71) Applicant: **UCHICAGO ARGONNE, LLC,**
Chicago, IL (US)

(72) Inventors: **Yuepeng ZHANG**, Naperville, IL (US);
Sanja TEPAVCEVIC, Chicago, IL
(US); **Devon J. POWERS**, Lemont, IL
(US); **Peter ZAPOL**, Hinsdale, IL
(US); **John N. HRYN**, Hawthorn
Woods, IL (US); **Gregory K.**
KRUMDICK, Homer Glen, IL (US);
Ozgenur KAHVECIOGLU,
Naperville, IL (US); **Krzystof Z.**
PUPEK, Plainfield, IL (US); **Michael**
John COUNIHAN, Downers Grove, IL
(US)

(73) Assignee: **UCHICAGO ARGONNE, LLC,**
Chicago, IL (US)

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ABSTRACT

A cathode for a multilayer solid-state electrochemical cell is described herein. The cathode comprises nanofibers of a cathode active material; particles of the cathode active material; and nanofibers of a cubic phase lithium lanthanum zirconium oxide (c-LLZO); all of which are dispersed in a polymeric matrix. Electrochemical cells comprising a solid-state electrolyte and the cathodes comprising the nanofibers of c-LLZO are also described herein.

