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(54) **Cathode active material, cathode, and nonaqueous secondary battery**

Aktives Kathodenmaterial, Kathode und nichtwässrige Sekundärbatterie

Matériau actif à cathode, cathode, et batterie secondaire non aqueuse

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(56) References cited:
EP-A- 1 246 290 JP-A- 2004 178 835
US-A1- 2006 014 079

• **XIE H ET AL: "Physical and electrochemical properties of mix-doped lithium iron phosphate as cathode material for lithium ion battery" ELECTROCHIMICA ACTA, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 51, no. 10, 1 February 2006 (2006-02-01), pages 2063-2067, XP025167856 ISSN: 0013-4686 [retrieved on 2006-02-01]**

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