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| 1. Record Nr. | UNISALENTO991003859139707536 |
| Titolo | Michel Deguy / Claude Mouchard... [et al.] |
| Pubbl/distr/stampa | Paris : Larousse, 1999 |
| Descrizione fisica | 123 p. ; 23 cm |
| Collana | Littérature ; 114 |
| Altri autori (Persone) | Mouchard, Claude |
| Disciplina | 840.9 |
| Soggetti | Deguy, Michel |
| Lingua di pubblicazione | Francese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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- | | |
|-------------------------|--|
| 2. Record Nr. | UNINA9910786508703321 |
| Autore | Cheruvally Gouri |
| Titolo | Lithium iron phosphate : a promising cathode-active material for lithium secondary batteries / / Gouri Cheruvally |
| Pubbl/distr/stampa | Stafa-Zuerich ; ; Enfield, New Hampshire : , : Trans Tech Publications Limited, , [2008]
©2008 |
| ISBN | 3-03813-240-3 |
| Descrizione fisica | 1 online resource (142 p.) |
| Collana | Materials science foundations, , 1422-3597 ; ; volume 38 |
| Soggetti | Lithium cells - Research
Lithium compounds |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references (pages 114-126). |
| Nota di contenuto | Lithium Iron Phosphate: A Promising Cathode-Active Material for Lithium Secondary Batteries; Dedication; Author; Preface; Table of Contents; Abbreviations; Table of Contents; 1. Introduction; 2. |

Characteristics of LiFePO₄ as a Cathode-Active Material; 3. Synthesis of LiFePO₄: Different Methods; 4. Synthesis of LiFePO₄/C; 5. Influence of Synthesis Parameters on the Properties of LiFePO₄ and LiFePO₄/C; 6. Metal Ion-Doped LiFePO₄: Synthesis and Properties; 7. LiFePO₄-Based Cathode: Influence of Different Parameters on Properties; 8. Lithium Cells with LiFePO₄ Cathode: Influence of Cell Components and Operating Temperature; 9. Safety and Storage of Lithium Batteries with LiFePO₄ Cathodes; 10. Theoretical and Modeling Studies on LiFePO₄; 11. Phosphate Olivines as Cathode-Active Materials; 12. An Overview; References; Authors Index

Sommario/riassunto

Since the first development of lithium-ion batteries in the early 1990's, there have been tremendous advances in the science and technology of these electrochemical energy sources. At present, lithium batteries dominate the field of advanced power sources and have almost entirely replaced their bulkier and less energetic counterparts such as nickel-cadmium and nickel-metalhydride batteries; especially in portable electronic devices. But lithium batteries are still the object of continuing intense research aimed at making further improvements in performance and safety, at lower cost, so as to m
