

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号

WO 2023/036308 A1

(43) 国际公布日
2023 年 3 月 16 日 (16.03.2023)

(51) 国际专利分类号:
C01B 25/45 (2006.01) H01M 10/0525 (2010.01)
H01M 4/58 (2010.01)

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(21) 国际申请号: PCT/CN2022/118186

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(22) 国际申请日: 2022 年 9 月 9 日 (09.09.2022)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202111064354.9 2021 年 9 月 10 日 (10.09.2021) CN

(81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD,

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(54) Title: NOVEL GREEN LITHIUM IRON PHOSPHATE PRECURSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

(54) 发明名称: 一种新型绿色磷酸铁锂前驱体及其制备方法、应用

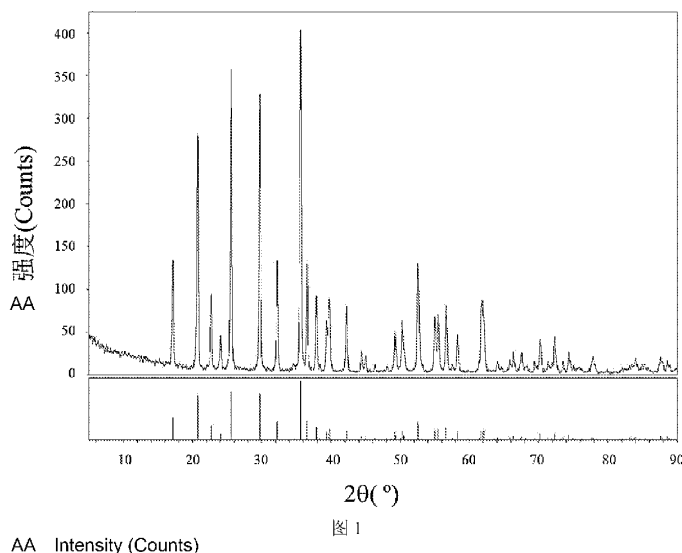


图 1

(57) Abstract: Disclosed in the present invention are a novel green lithium iron phosphate precursor, a preparation method therefor and an application thereof. The preparation method for the lithium iron phosphate precursor comprises the following steps: S1, reacting a mixture of an iron source and a phosphoric acid solution, and grinding after the reaction is completed to obtain a product A; reacting a mixture of an organic acid solution, a lithium source, and a carbon source, and obtaining a product B after the reaction is completed, the preparation order of the product A and the product B being not limited; and S2, grinding the mixture of the product A and the product B to obtain a lithium iron phosphate precursor. In the preparation process of the lithium iron phosphate precursor of the present invention,

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根据细则4.17的声明:

- 关于申请人有权申请并被授予专利 (细则
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- 发明人资格 (细则4.17(iv))

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- 包括国际检索报告 (条约第21条(3))。

the solid content can be greatly improved, the energy consumption of the subsequent process is low, the preparation method is simple,
and the cost is low. The prepared lithium iron phosphate precursor has extremely small particle size and high charge and discharge rate.

(57) 摘要: 本发明公开了一种新型绿色磷酸铁锂前驱体及其制备方法、应用。该磷酸铁锂前驱体的制备方法包
括如下步骤: S1.将铁源与磷酸溶液的混合物反应, 反应完成后进行研磨得到产物A; 将有机酸溶液、锂源和碳
源的混合物反应, 反应完成后得到产物B; 所述产物A和所述产物B的制备先后顺序不限; S2.将所述产物A与
所述产物B的混合物进行研磨, 得到磷酸铁锂前驱体。本发明的磷酸铁锂前驱体的制备过程中, 能够大幅提升
固含量, 后续工艺能耗小, 制备方法简单; 成本低; 制得的磷酸铁锂前驱体粒径极小, 充放电倍率高。