Title: Hydrothermal Synthesis of Red Phosphorus @Reduced Graphene Oxide Nanohybrid with Enhanced Electrochemical Performance as Anode Material of Lithium-ion Battery

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PII: S0169-4332(17)32915-X
DOI: https://doi.org/10.1016/j.apsusc.2017.09.256
Reference: APSUSC 37335

To appear in: *APSUSC*

Received date: 14-7-2017
Revised date: 24-9-2017
Accepted date: 29-9-2017

Please cite this article as: Xing Zhu, Zewei Yuan, Xiaobo Wang, Guodong Jiang, Jian Xiong, Songdong Yuan, Hydrothermal Synthesis of Red Phosphorus @Reduced Graphene Oxide Nanohybrid with Enhanced Electrochemical Performance as Anode Material of Lithium-ion Battery, Applied Surface Science https://doi.org/10.1016/j.apsusc.2017.09.256

Hydrothermal Synthesis of Red Phosphorus @Reduced Graphene Oxide Nanohybrid with Enhanced Electrochemical Performance as Anode Material of Lithium-ion Battery

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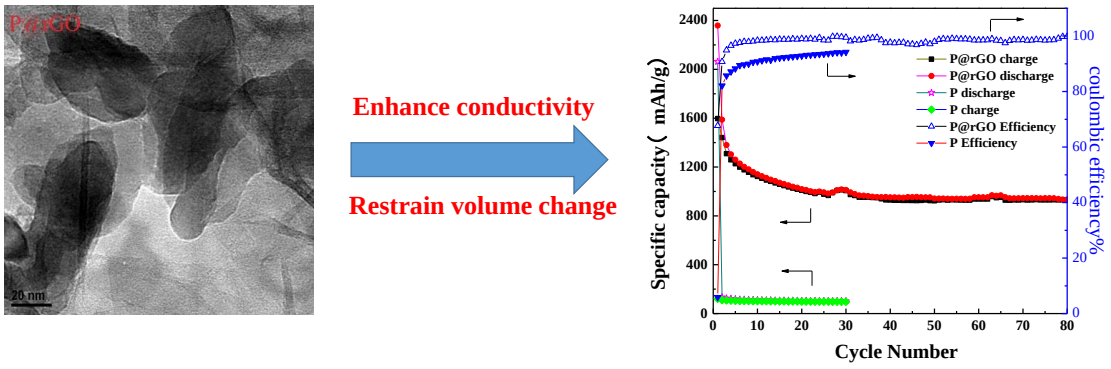
Graphical Abstract



Comparing with pure red phosphorus, red phosphorus @reduced graphene oxide nanohybrid (P@rGO) fabricated by hydro-thermal method shows preferable electrical properties. Reduced graphene oxide contributes to the enhancement conductivity and the remission of the volume change.