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Behaviors of electrochemical energy storage sources, based on orgao-metallic frameworks and their composites

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Metal-organic frameworks (MOFs), which are constructed through inorganic vertices and organic ligands, have attracted the attention of a wide range of research communities due to their diversity in construction and composition. Recently, MOFs have been considered as suitable substrates in the field of electrochemical energy storage (EES), and many MOFs used in electrochemical fields show unique functions. In this article, I intend to briefly introduce the synthesis strategies and applications and composites of MOFs, as well as the general and electrochemical mechanisms of MOFs in lithium-ion batteries and supercapacitors (SCS). It is expected that these investigations will play an effective role in the development of MOFs and its composites in relation to electrochemical mechanisms[1].

Keywords: Organo-metallic frameworks (MOFs) composites, Lithium-ion batteries, Supercapacitors

References

[1] L. Sun, J. Xie, L. Zhang, R.Y. Jiang, J. Wu, L. Fan, R. Shao, Z.D. Chen, Z. Jin, FlatChem 20 (**2020**) 100152.