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Compatibility of lithium oxalyldifluroborate with lithium metal anode in rechargeable batteries

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Graphical abstract

LiODFB, containing the same molecular moieties as those of LiBOB and $LiBF_4$, has the combined advantages of these two Li^+ salts. Although LiODFB has shown good electrochemical performance in Li-ion batteries, few reports have been released about its use in metallic Li rechargeable batteries. This work has demonstrated the preferential feasibility of LiODFB as the Li^+ salt for electrolyte in metallic Li rechargeable batteries.