High Energy And High Power Batteries Based on Graphite Fluoride and Functionalized Hexagonal Boron Nitride NSF STTR Award Number 2109286

Illinois Institute of Technology, Chicago, IL, USA and ² Boron Nitride Power LLC, Chicago, IL, USA



As compared to CFx, besides simultaneously high energy and power density.

US 10,693,137 B2 (2020) US 11,453,596 B2 (2022)

Haobin Huo¹, Leon L. Shaw¹, <u>Karoly Nemeth^{1,2}</u>

www.boronnitridepower.com



Comparison of the performance of fluorinated graphene spheres (FGS, the latest CFx technology) with our much simpler and easy to manufacture CFx technology. Our Li-CFx coin cells perform similarly well while being much simpler to implement.

FGS reference: "Ultrafast Li/Fluorinated Graphene Primary Batteries with High Energy Density and Power Density", Luo et al., ACS Appl. Mater. Interfaces 2021, 13, 18809-18820.

Application areas: electric aircraft, UAVs, VTOLs, pulsed power sources, medical









							1	
1	2							
			i		1			
1		1					1	
	~							
1							.i	 L
1			1					
			-:				1	
							+	
							. i	
			1				11	
							1	
							+	
							4	
			1			227	1	
							1	
							1	
							1	
							·	
							1	
							1	
							4	
			1				1	
							÷	
							.i	
							1	
							÷	
				-	_	-		
			1		-	-	1	
			3000				11.	