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Title: Interior design engineering of CuS architecture alteration with rise in reaction bath temperature for high performance symmetric flexible solid state supercapacitor

Author: A.M. Patil A.C. Lokhande N.R. Chodankar P.A. Shinde J.H. Kim C.D. Lokhande

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Highlights

- ➤ The nanoflower morphological CuS thin films are successfully synthesized using low cost, simple and convenient chemical bath deposition method.
- ➤ The excellent specific capacitance of 1818.2 F g⁻¹ is achieved with specific surface area of 150.6 m² g⁻¹ for CuS thin film.
- ➤ The CuS electrode exhibits electrochemical cycling stability of 92 % up to 2000 cyclic voltammetry (CV) cycles.
- ➤ The FSS-SCs-PVA-LiClO₄ device glows up 200 red LED panel after 30 s charging.

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