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Supporting Information

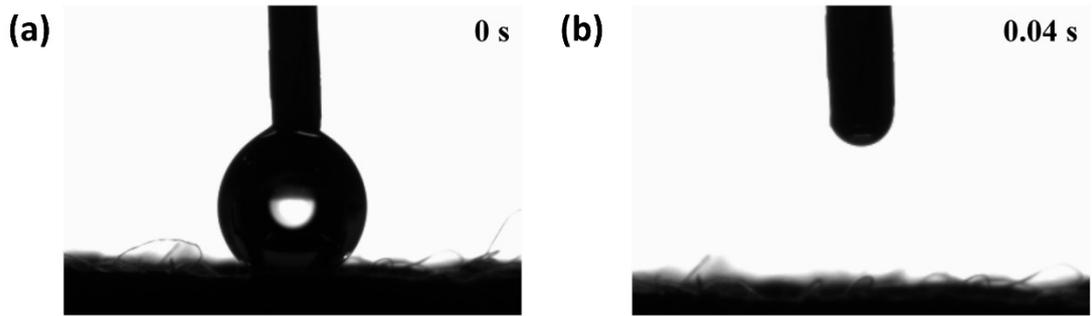
Janus hydrogel skeleton encapsulated yarn-based evaporator for excellent desalination and lithium enrichment

Yue Ma^a, Hong-Bei He^a, Jia-Meng Cheng^a, Ai-Tong Li^a, Hai-Tao Ren^{a,b*}

*^aInnovation Platform of Intelligent and Energy-Saving Textiles, School of Textile
Science and Engineering, Tiangong University, Tianjin 300387, P.R. China;*

*^bMinistry of Education Key Laboratory of Advanced Textile Composite Materials,
Tiangong University, Tianjin 300387, China.*

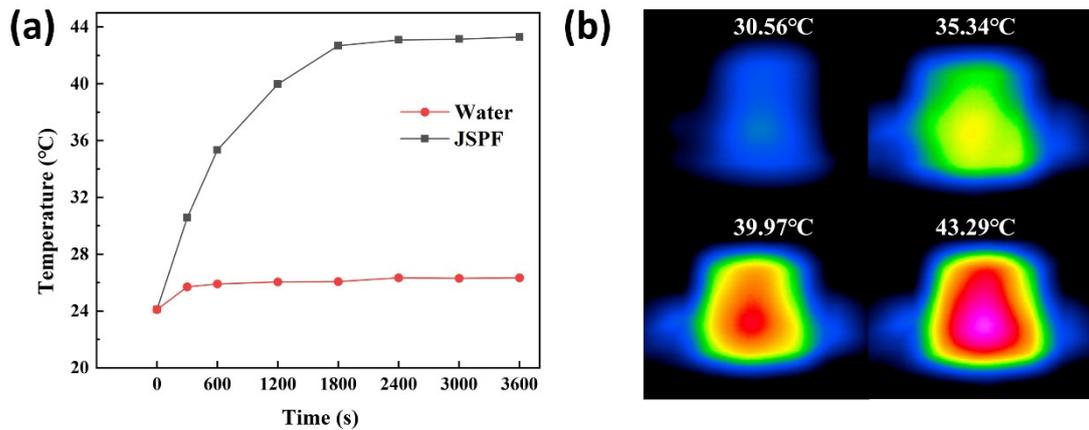
Corresponding Author: *E-mail: renhaitao@tiangong.edu.cn (H.T. Ren)



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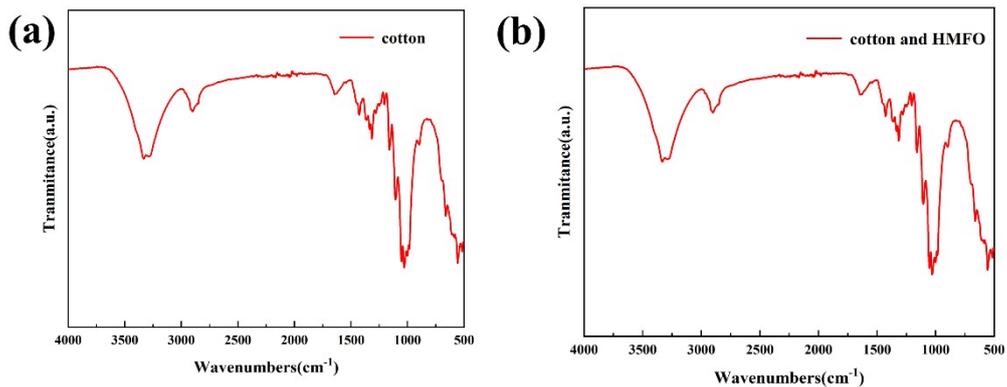
18 **Fig. S1** The contact angle test of JSPF: water droplet (a) before and (b) after contact.

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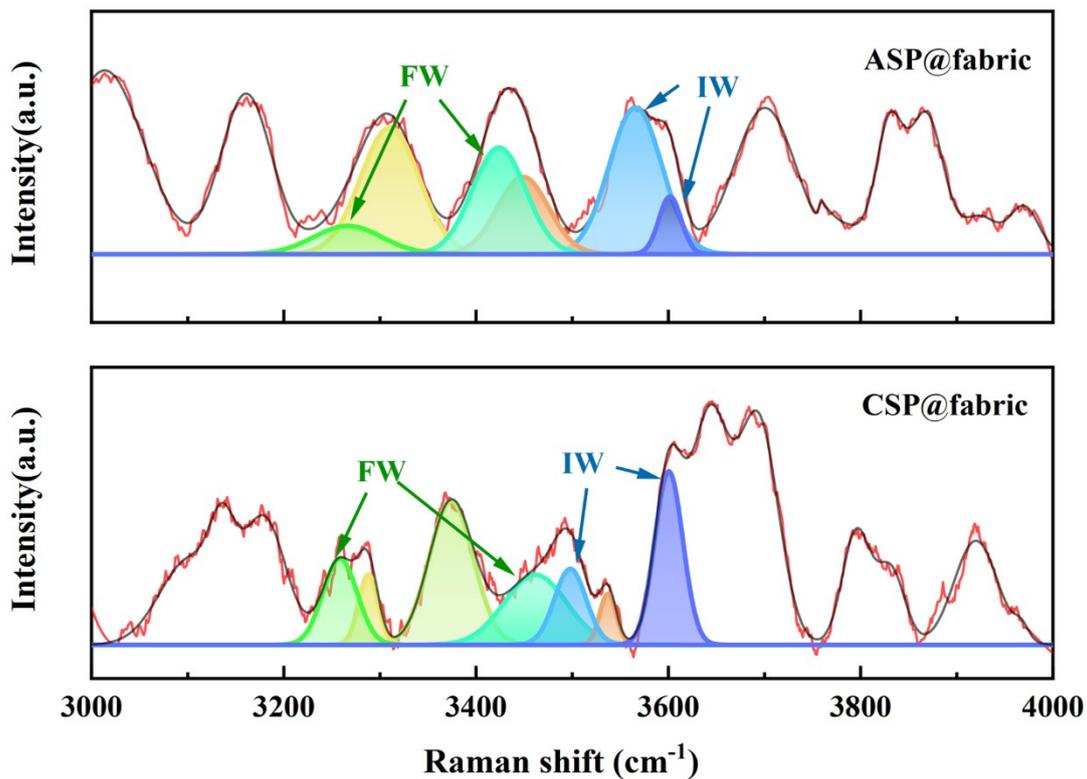
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21 **Fig. S2** (a) Temperature variation of JSPF with time and (b) IR radiation images under
22 simulated sunlight of 1 kW m⁻².



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24 **Fig. S3** FTIR spectra of (a) H_{1.5}MnFe₂O₄@yarn composite and (b) original cotton yarn.



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26 **Fig. S4** Completely dry ASP@fabric and CSP@fabric Raman spectra were used for
 27 fitting.

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29 **Table S1** Adsorption capacity of Mg^{2+} and Li^+ at different Mg^{2+} to Li^+ mass ratios at
 30 the salinity of 1 g L^{-1} .

Mass ratio of Mg^{2+} and Li^+	Li^+ adsorption (mg m^{-2})	Mg^{2+} adsorption (mg m^{-2})
1	776.8	179.2
10	684.2	86.2
20	364.9	43.8
40	286.3	28.6

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