

## *Electronic Supplementary Information*

### **Controlled Growth of SiC Flexible Field Emitters with Clear and Sharp Tips**

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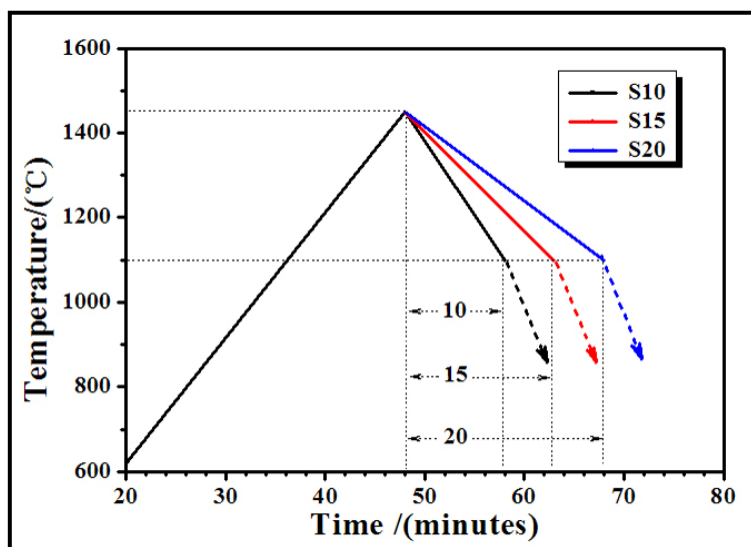
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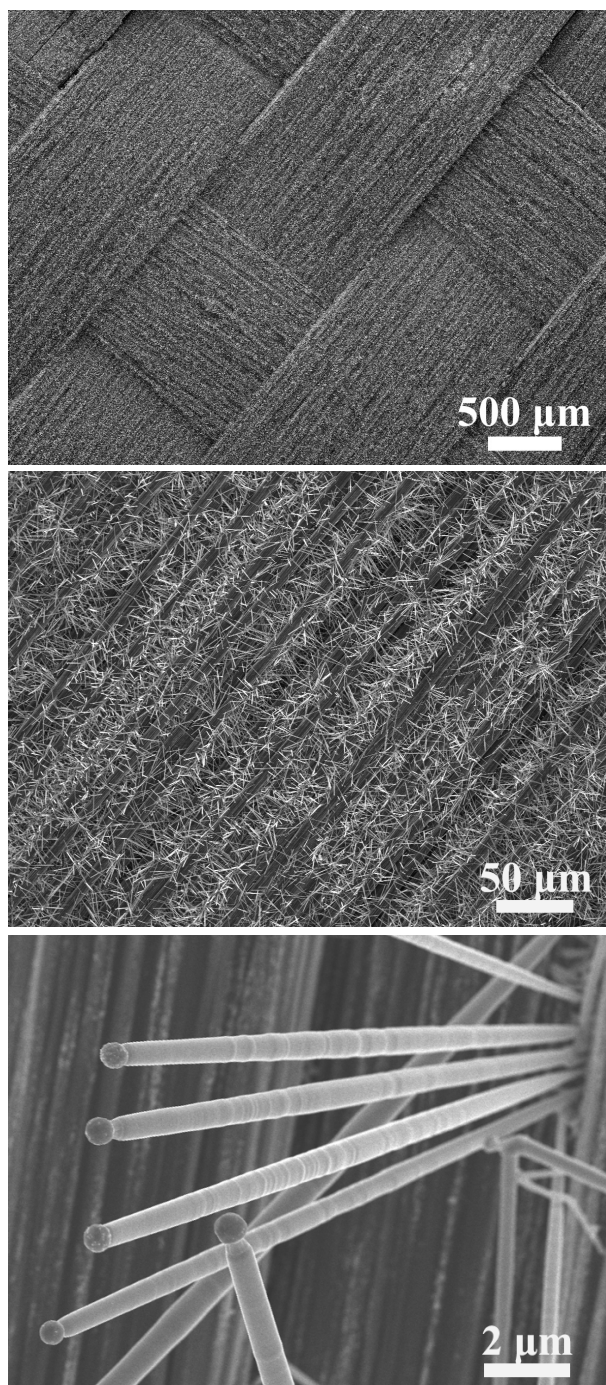
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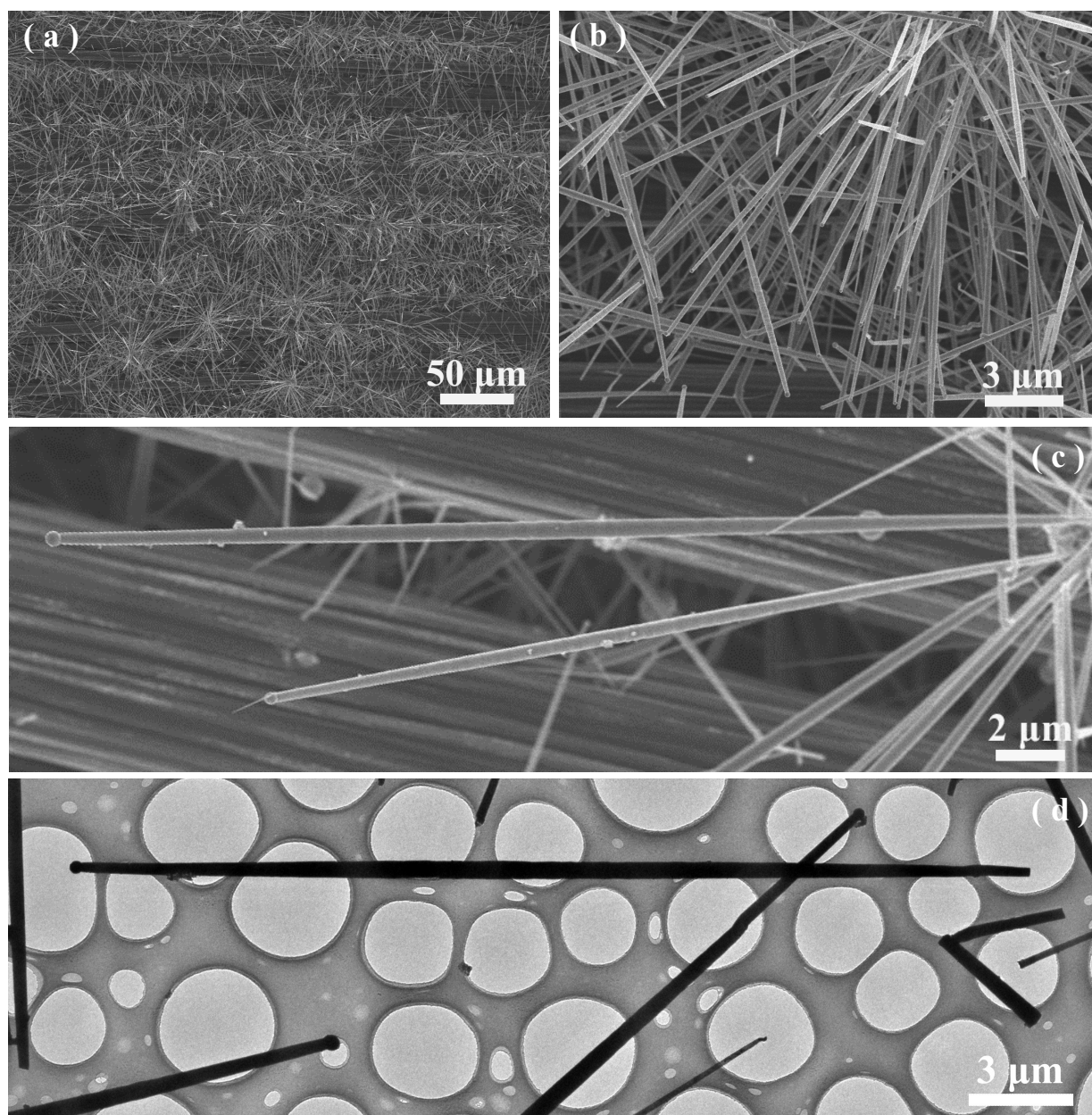
***Tel:*** +86-574-87080966, ***Fax:*** +86-574-87081221



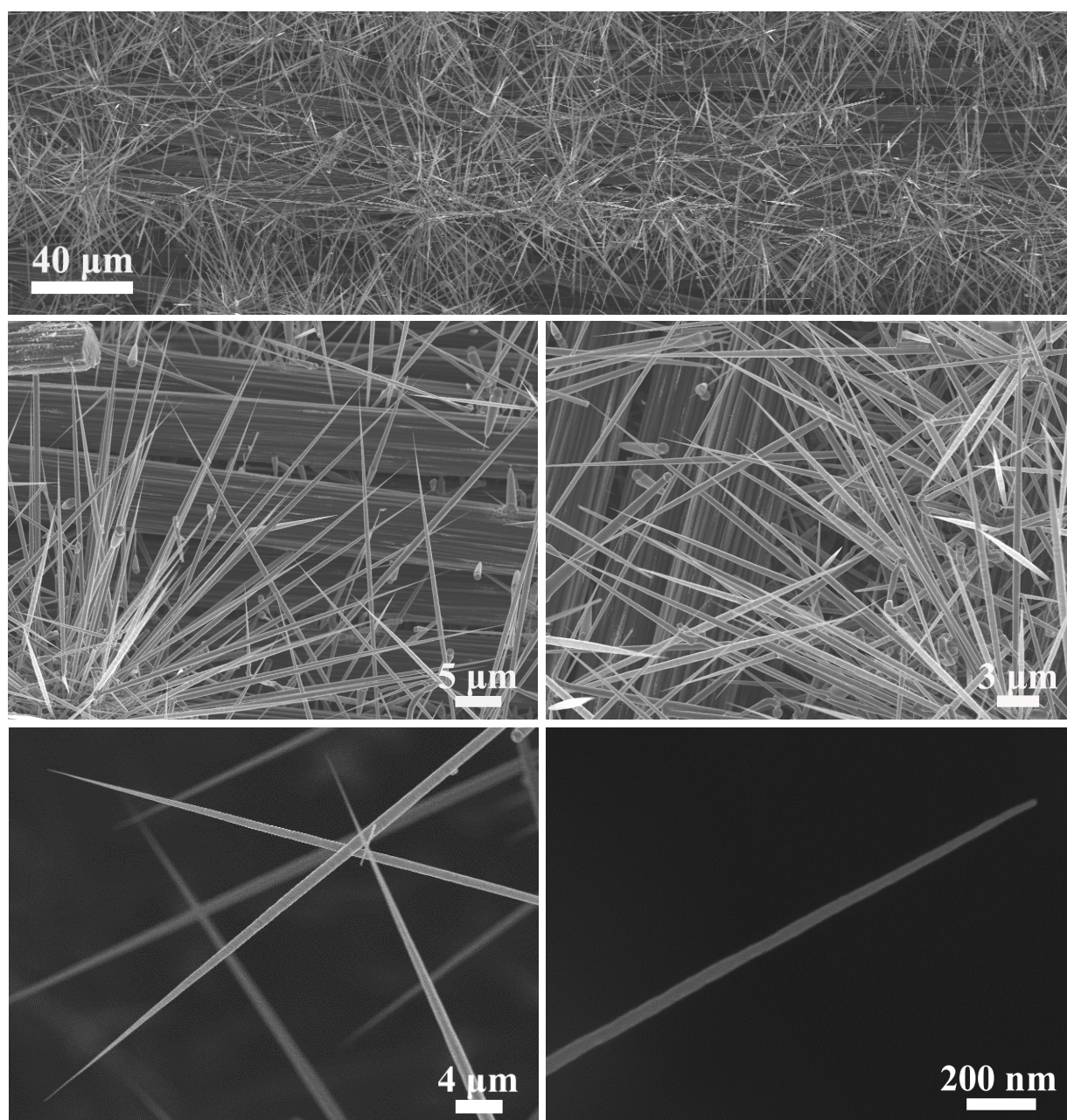
**Fig. S1** Pyrolysis procedures with different cooling times of 10, 15 and 20 min for the growth of quasialigned SiC nanoarrays of S10, S15 and S20.



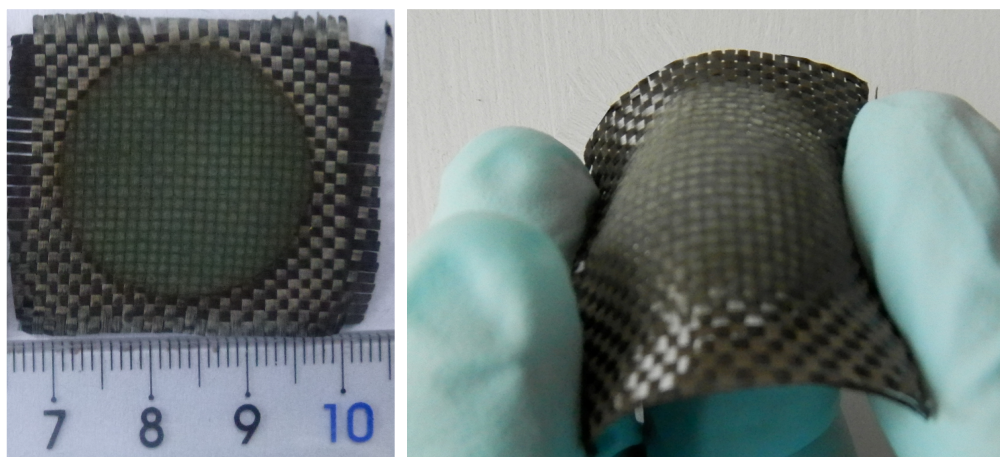
**Fig. S2** Typical SEM images of the quasialigned SiC nanoarrays of S10 with a cooling time of 10 min under different magnifications.



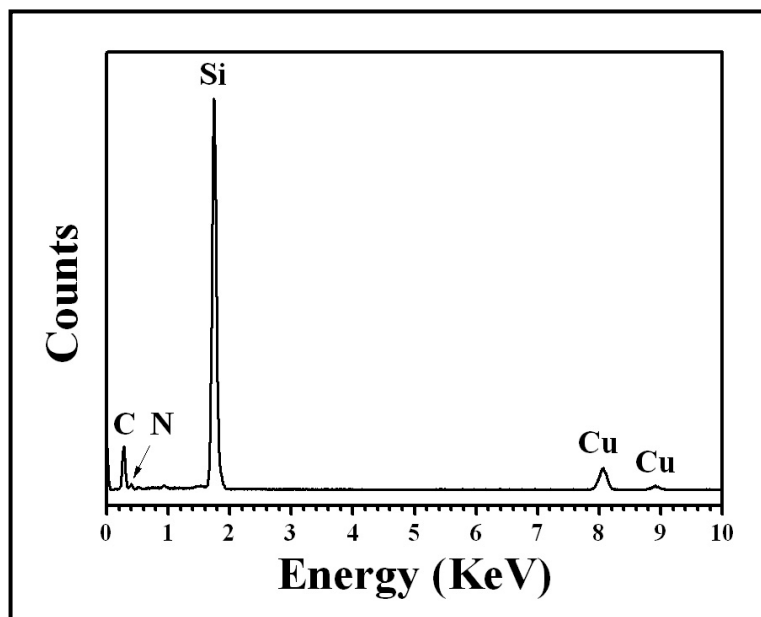
**Fig. S3** Typical SEM (a-c) and TEM (d) images of the quasialigned SiC nanoarrays of S15 with a cooling time of 15 min under different magnifications.



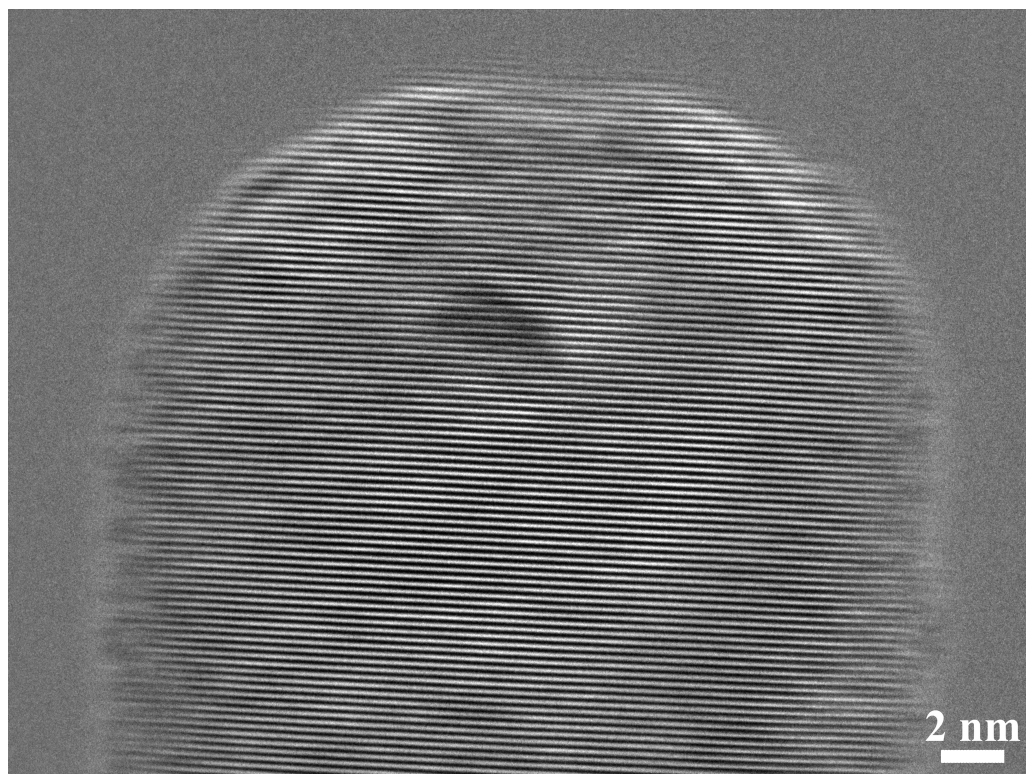
**Fig. S4** Typical SEM images of the quasialigned SiC nanoarrays of S20 with a cooling time of 20 min under different magnifications.



**Fig. S5** Typical digital photos showing the flexibility of the as-synthesized quiasaligned SiC nanoarrays (Data from *J. Mater. Chem. C*, 2013, 1(31): 4779-4784).

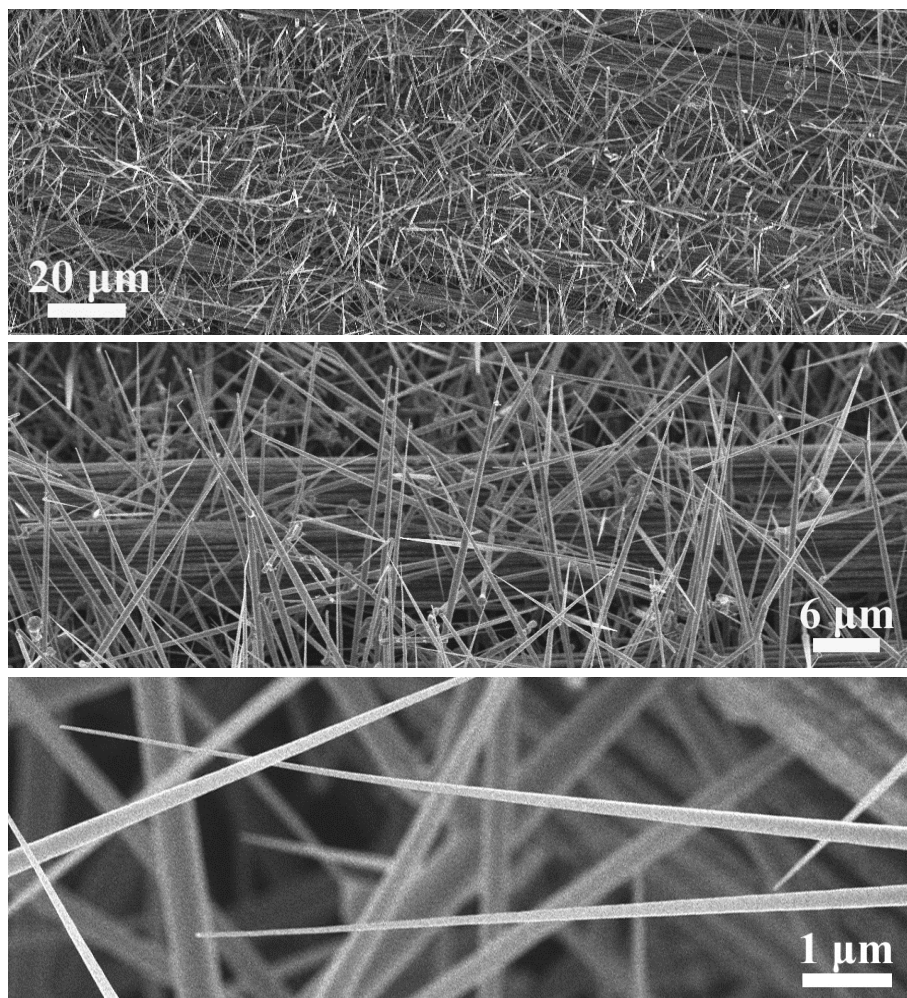


**Fig. S6** A typical EDS pattern recorded from the body of the SiC nanowires of S15.

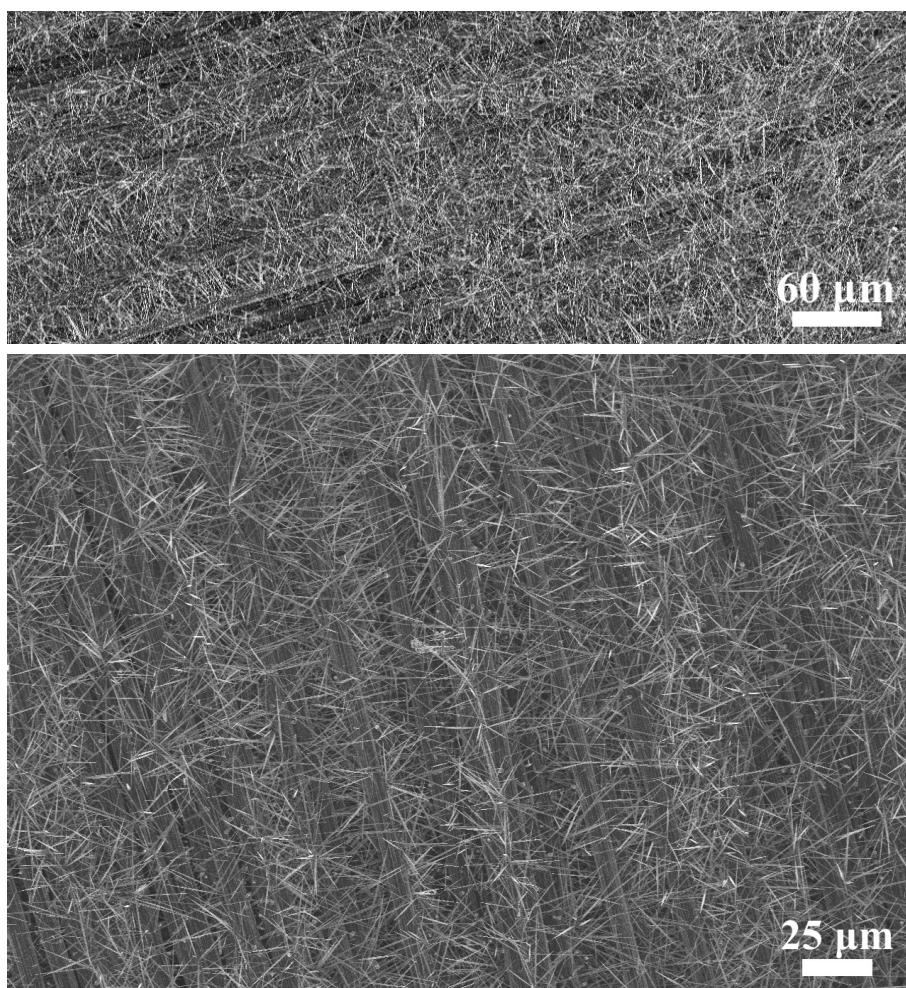


**Fig. S7** A typical HRTEM image of the wire tip of S20, showing the tip are clear and typically sized in  $\sim 5$  nm.





**Fig. S8** Typical SEM images of the quasisaligned SiC nanoarrays of S18 with a cooling time of 18 min under different magnifications.



**Fig. S9** Typical SEM images of the quasisaligned SiC nanoarrays of S25 with a cooling time of 25 min under different magnifications.