

Supporting Information:

Hierarchically assembled 1-dimensional hetero- nanostructures: single crystalline RuO₂ nanowires on electrospun IrO₂ nanofibres

Jaeyeon Lee^a, Hee-Sung Yang^b, Nam-Suk Lee^c, Osung Kwon^d, Hae-Young Shin^e,
Seokhyun Yoon^e, Jeong Min Baik^f, Young-Soo Seo^{b*} and Myung Hwa Kim^{a*}

^a*Department of Chemistry & Nano Science, Ewha Womans University, Seoul, 120-750, Korea*

^b*Department of Nano Science & Technology, Sejong University, 134-747, Seoul, Korea*

^c*National Center for Nanomaterials Technology (NCNT), Pohang University of Science and Technology (POSTECH), Pohang, 790-784, Korea*

^d*Division of Robotics System, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Dalseong, 711-873, Korea.*

^e*Department of Physics, Ewha Womans University, Seoul, 120-750, Korea*

^f*School of Mechanical and Advanced Materials Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, 698-805, Korea*

**To whom all correspondence should be addressed: myungkim@ewha.ac.kr,
ysseo@sejong.ac.kr*

Fig. S1 Additional SEM images of RuO₂ nanowires grown on electrospun IrO₂ nanofibres.

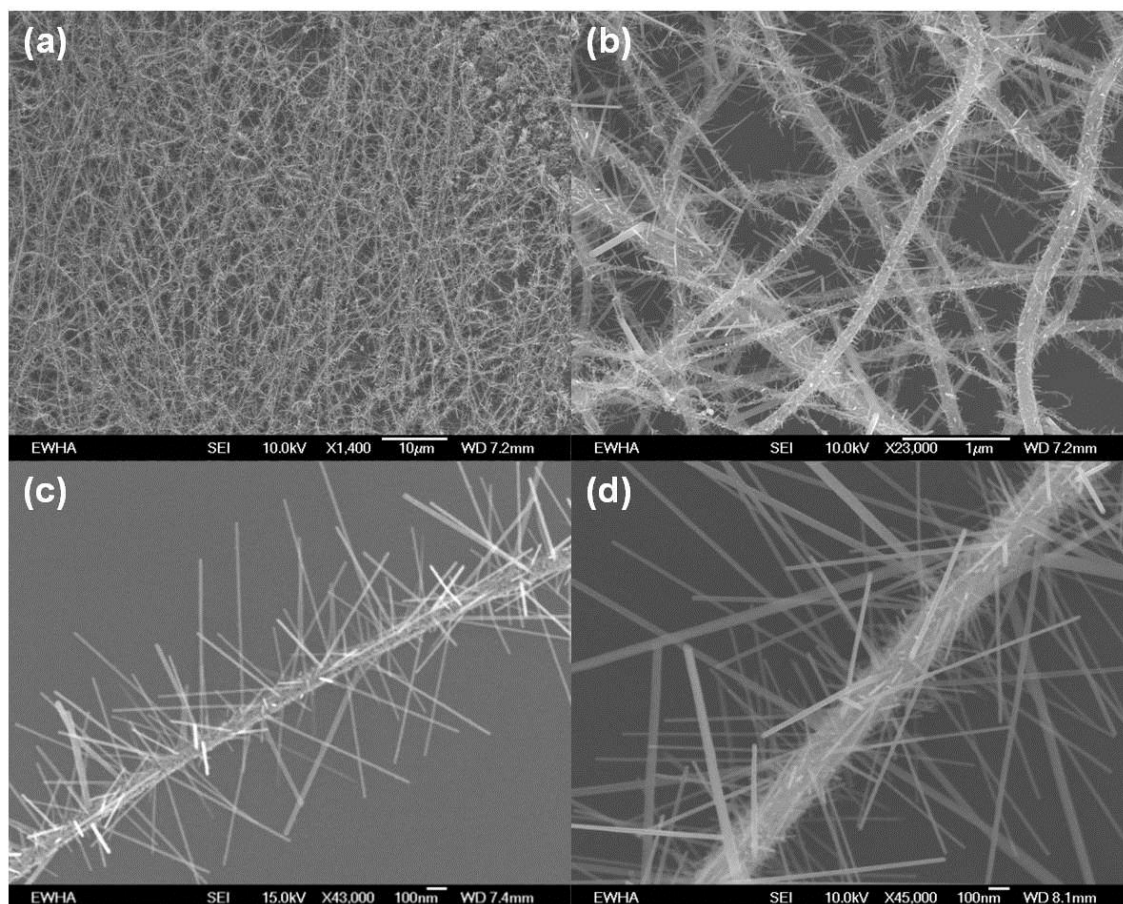


Fig. S2 Additional low and high magnification TEM images of a representative RuO₂ nanowire grown on electrospun fibre and the fast Fourier transform (FFT) of the lattice-resolved image.

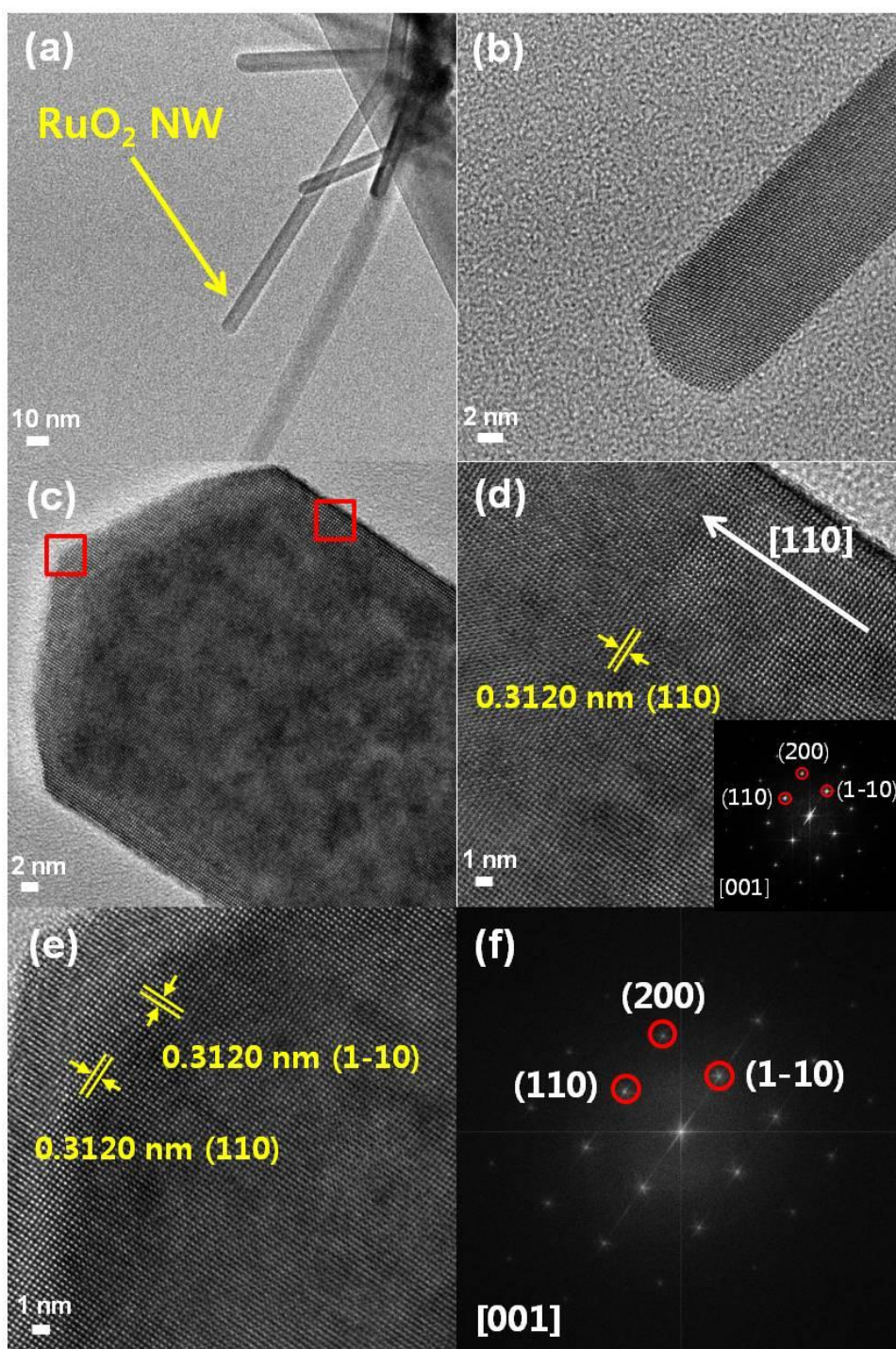


Fig. S3 (a) High angle angular dark field (HAADF) STEM image and (b)-(e) EDS-elemental mapping analysis for Ru(L), Ir(M) and O(K) atoms of RuO₂ nanowires on electrospun IrO₂ nanofibres.

