

*Supplementary Material*

# A Study on Mechanical Characteristics of Cement Composites Fabricated with Nano-Silica and Carbon Nanotube

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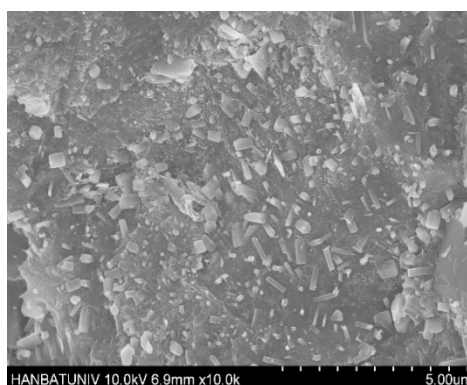
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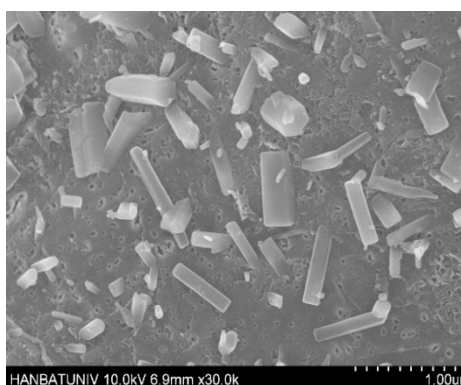
<sup>3</sup> Department of Civil and Environmental Engineering, Korea Advanced Institute of Science and Technology, Daejeon 34141, Korea; nemilhm@kaist.ac.kr

<sup>4</sup> School of Spatial Environment System Engineering, Handong Global University, Gyeongbuk 37554, Korea

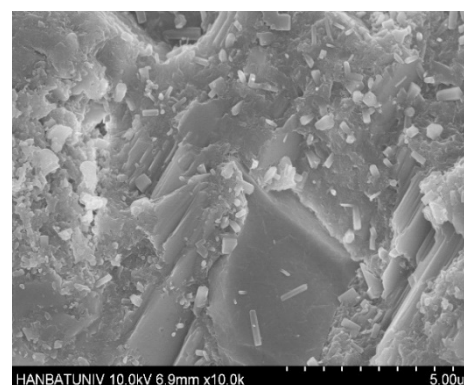
\* Correspondence: namiru@handong.edu; Tel.: +82-54-260-1422



(a1)

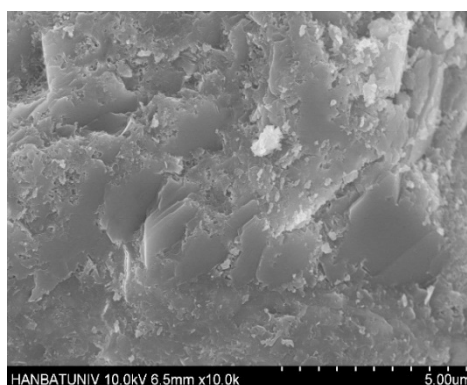


(a2)

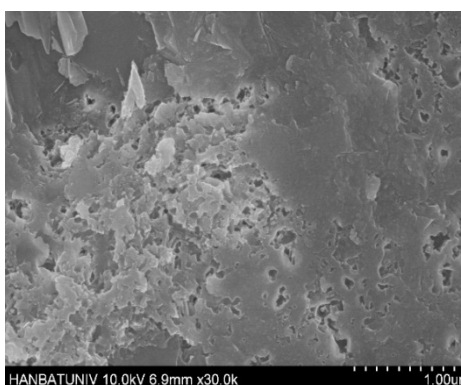


(a3)

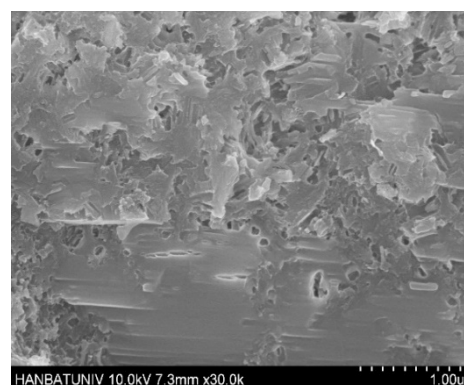
(a) CON0.



(b1)

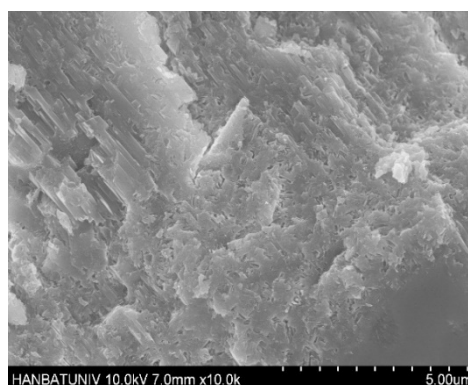


(b2)

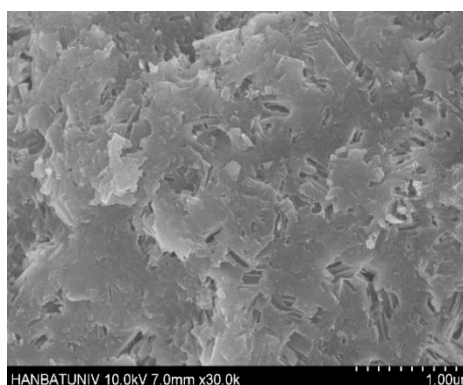


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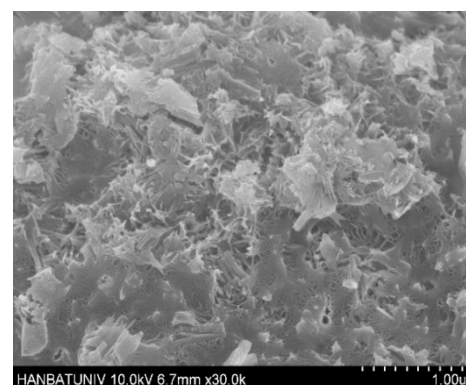
(b) CON1.



(c1)

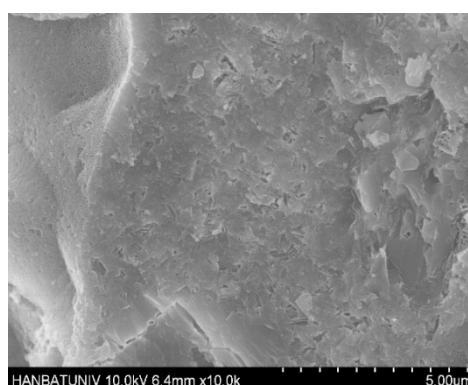


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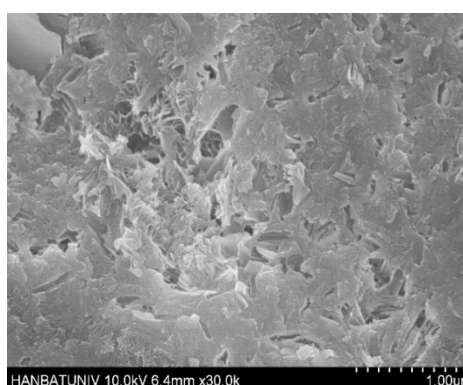


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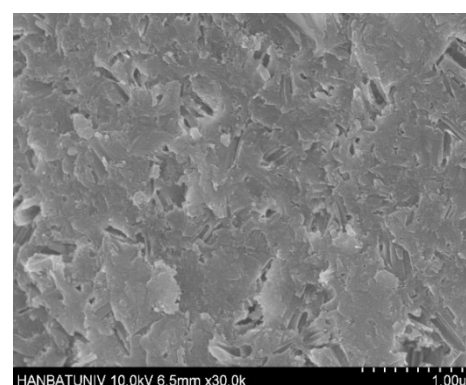
(c) C0N3.



(d1)

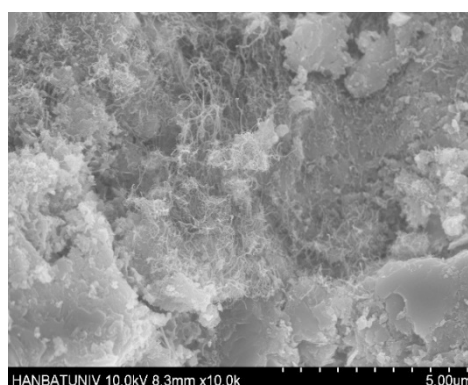


(d2)

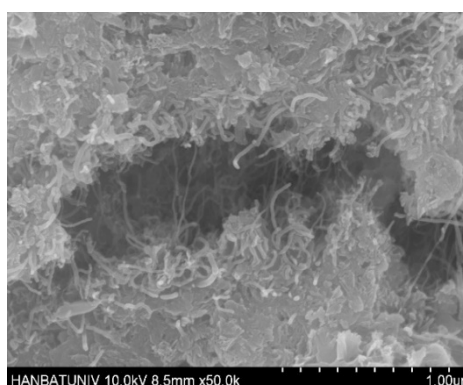


(d3)

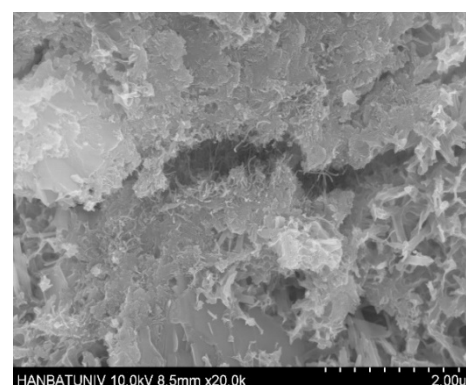
(d) C0N5.



(e1)

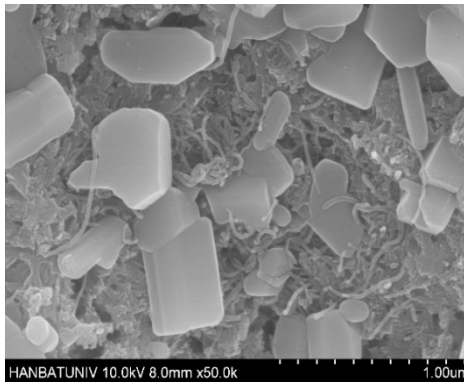


(e2)

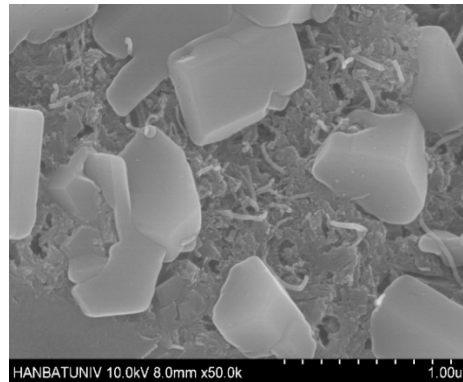


(e3)

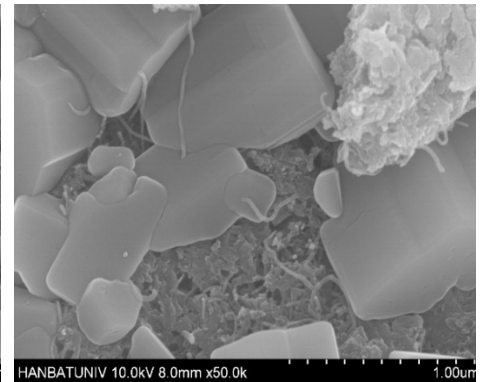
(e) C0.3N0.



(f1)

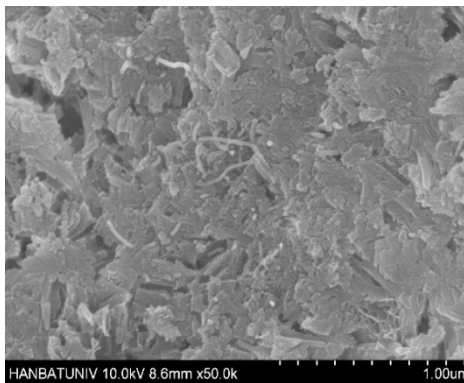


(f2)

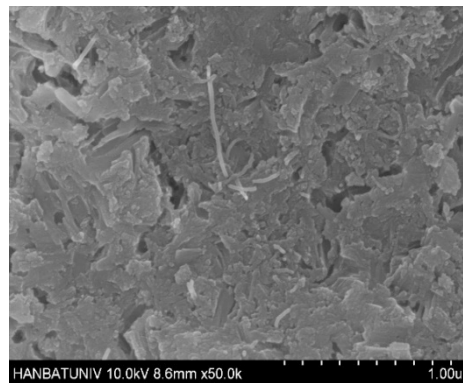


(f3)

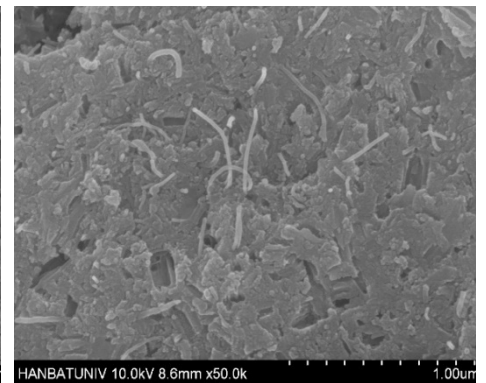
(f) C0.3N1.



(g1)

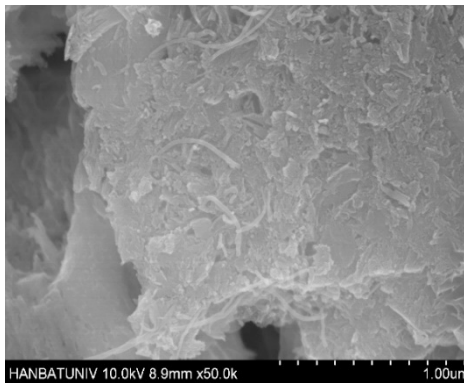


(g2)

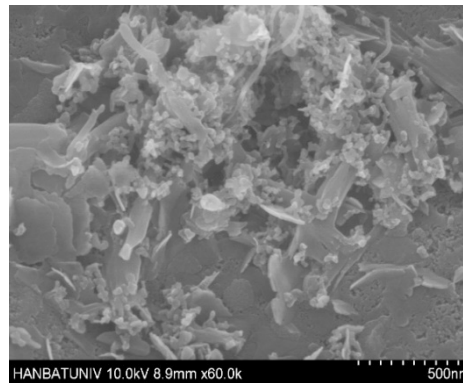


(g3)

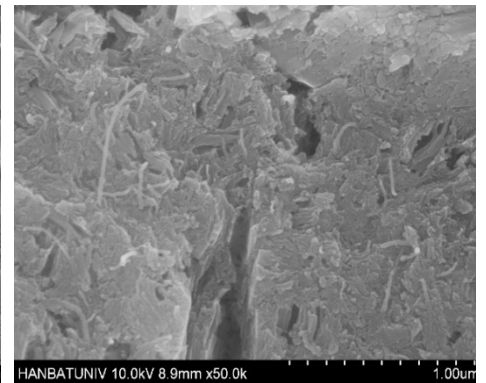
(g) C0.3N3.



(h1)

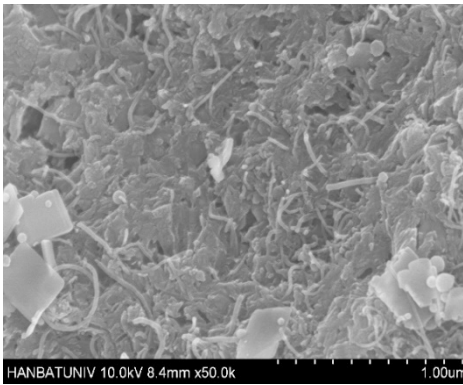


(h2)

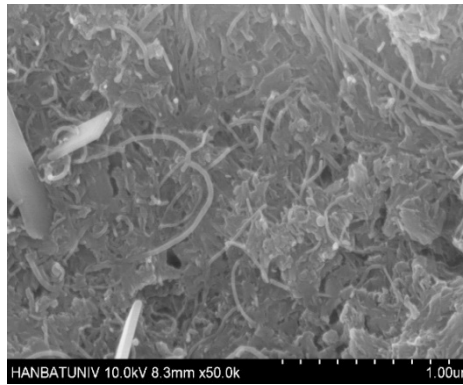


(h3)

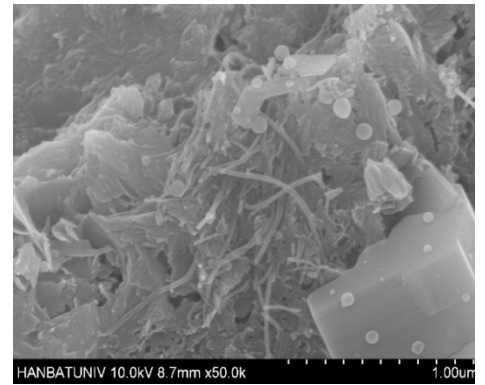
(h) C0.3N5.



(i1)

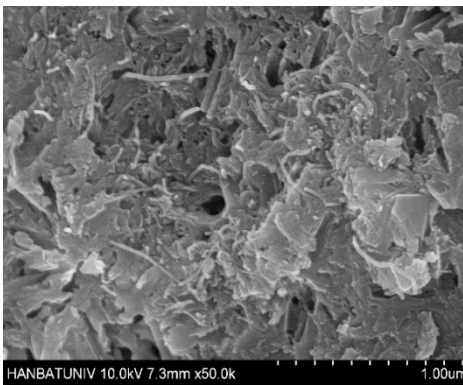


(i2)

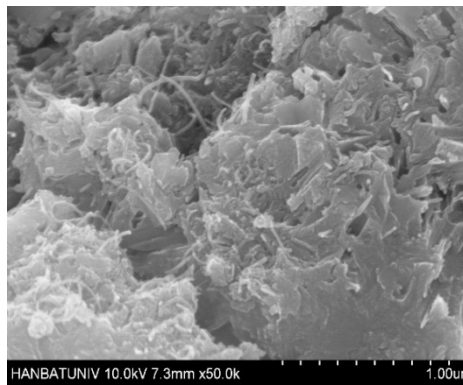


(i3)

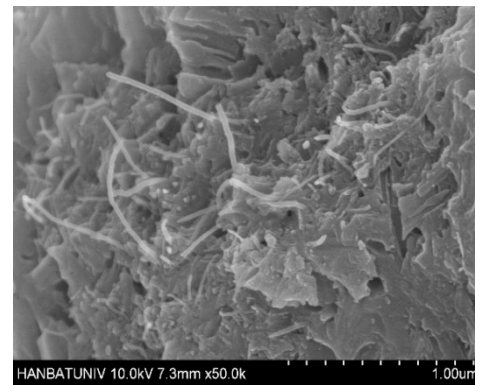
(i) C0.6N0.



(j1)

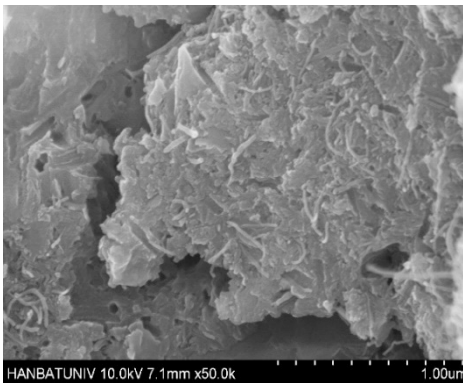


(j2)

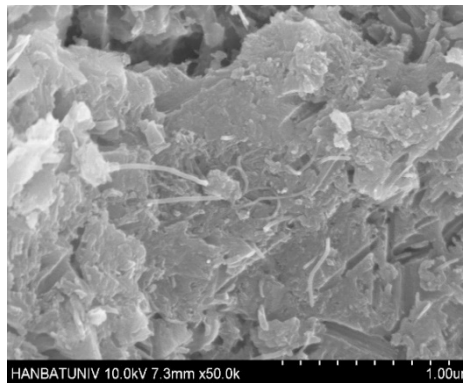


(j3)

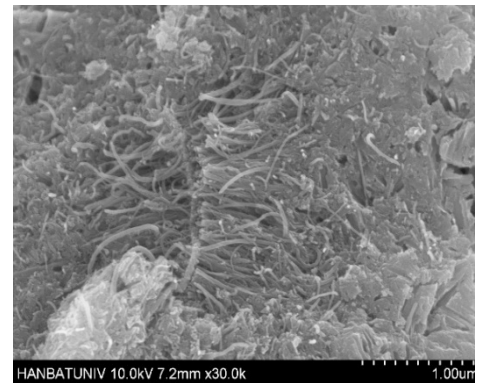
(j) C0.6N1.



(k1)



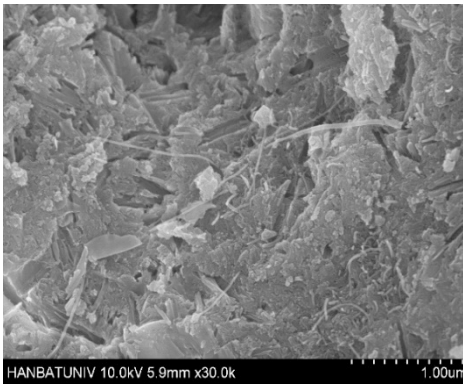
(k2)



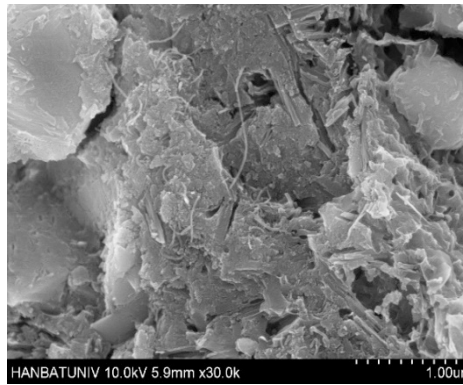
(k3)

(k) C0.6N3.

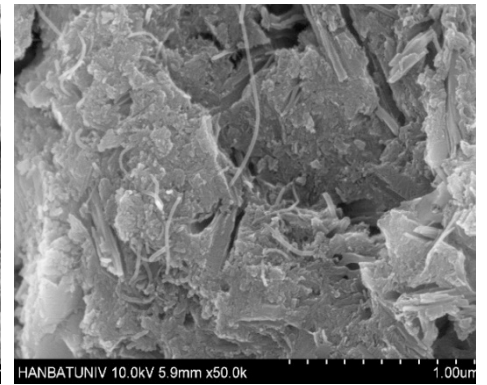




(I1)

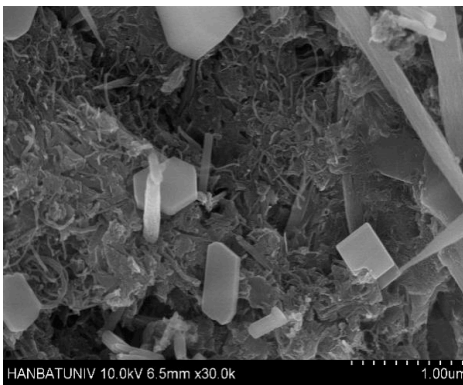


(I2)

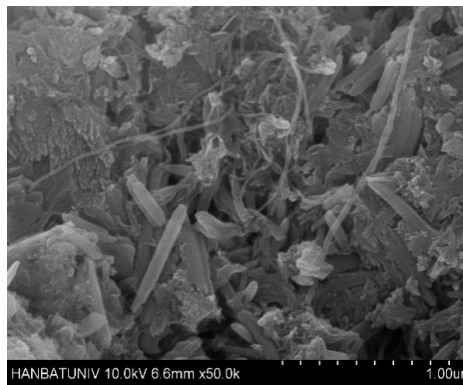


(I3)

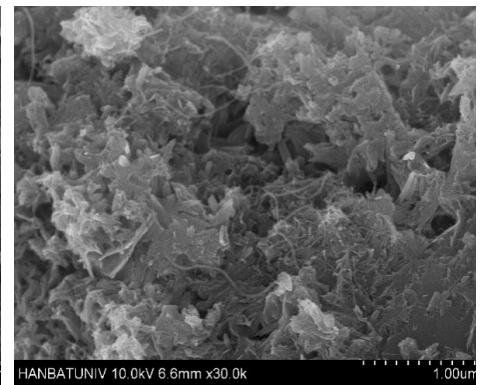
(I) C0.6N5.



(m1)

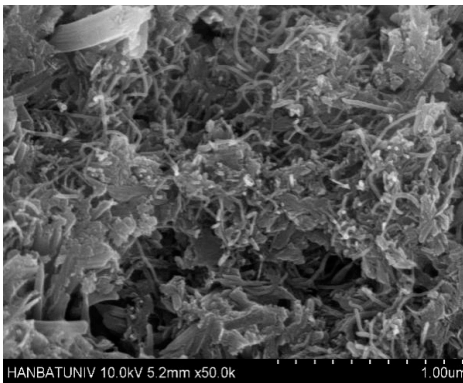


(m2)

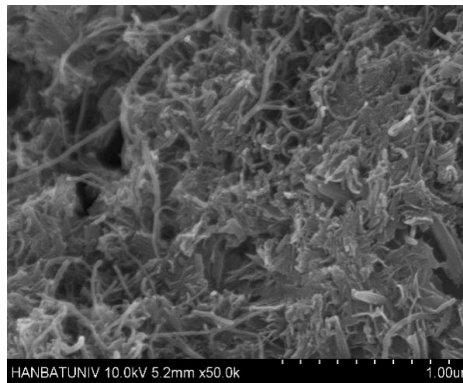


(m3)

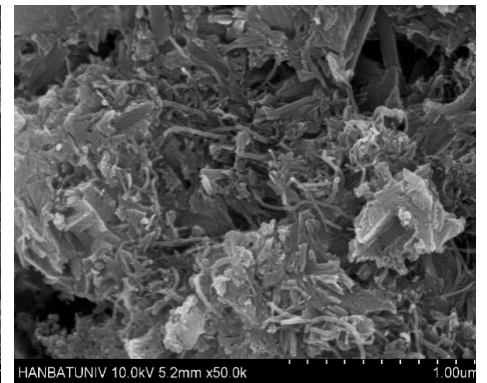
(m) C1.0N0.



(n1)

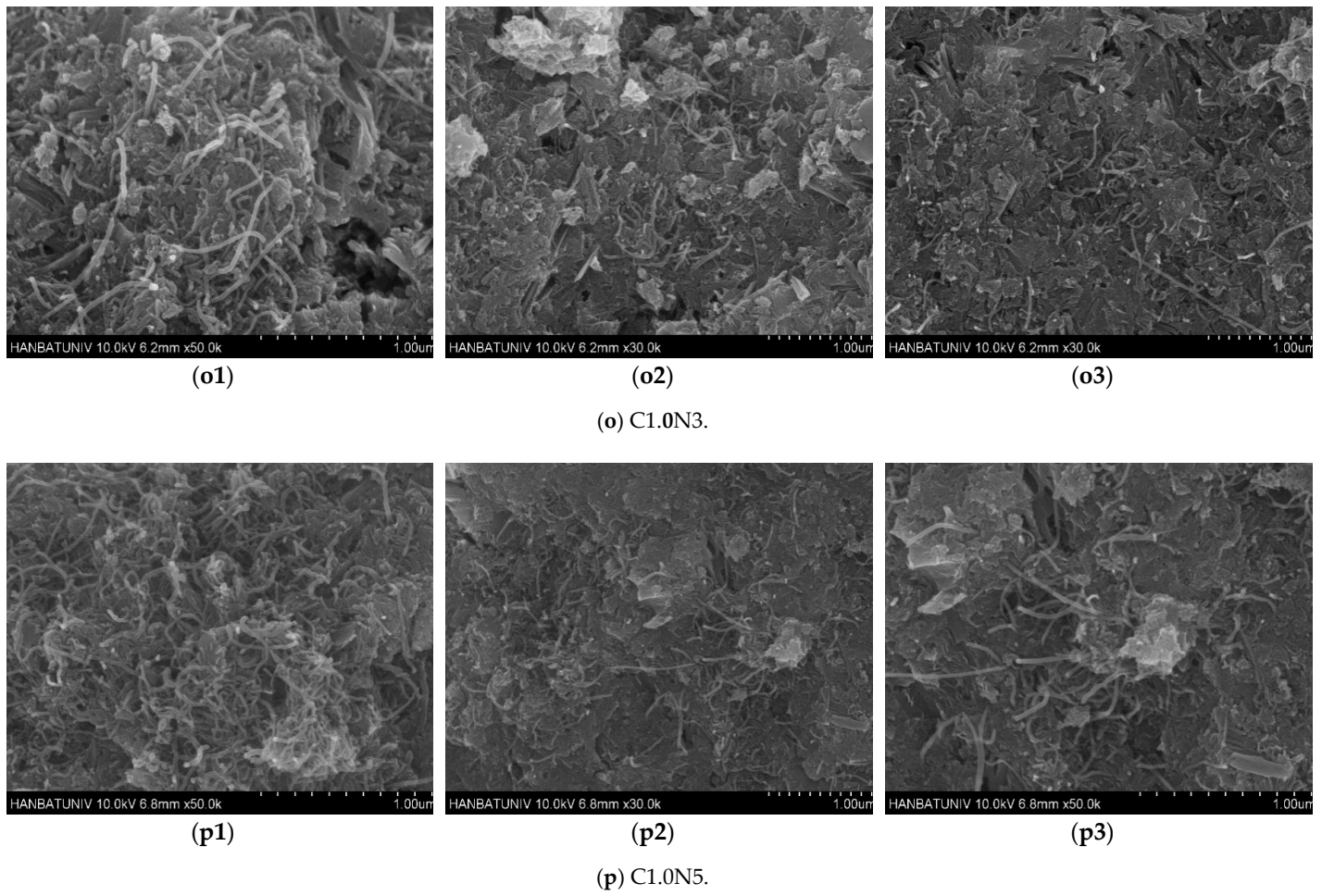


(n2)



(n3)

(n) C1.0N1.



**Figure S1.** Additional SEM images obtained from the fractured surfaces of each composite type.