

Polymer Nanocomposite-Based Shielding Against Diagnostic X-rays

Shruti Nambiar, Ernest K. Osei, John T. W. Yeow

Published online 16 June 2014

DOI: 10.1002/app.40982

[Article in *J. Appl. Polym. Sci.* 2013, 131, DOI: 10.1002/37980]

In the published article cited above, the below errors were discovered.

Page 4940 the 2nd sentence under the sub-section Material Characterization:

The nanocomposites with 37.73 and 44.44 wt % of BO in PDMS were sectioned with a diamond knife on a Reichert Ultracut E ultramicrotome fitted with a cryochamber (model FC 4E, Reichert-Jung, Wien, Austria) at 120°C.

The text was incorrect and should have read:

The nanocomposites with 37.73 and 44.44 wt % of BO in PDMS were sectioned with a diamond knife on a Reichert Ultracut E ultramicrotome fitted with a cryochamber (model FC 4E, Reichert-Jung, Wien, Austria) at -120°C.

Page 4944 (top):

Figure 6. Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 37.73' nanocomposites using primary X-ray beam. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

The caption was incorrect and should have read:

Figure 6: Percentage-attenuation of PDMS (control) and PDMS/BO nanocomposites with different concentrations of BO using primary X-ray beam. The concentration (in terms of wt %) of the nanocomposites is indicated in the legend. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

Page 4944 (middle):

Figure 7. Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 44.44' nanocomposites using primary X-ray beam. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

The caption was incorrect and should have read:

Figure 7: Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 37.73' nanocomposites using primary X-ray beam. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

Page 4944 (bottom):

Figure 8. Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 37.73' nanocomposites using scattered X-rays generated at tube potentials ranging from 40 to 150 kV. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

The caption was incorrect and should have read:

Figure 8: Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 44.44' nanocomposites using primary X-ray beam. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

Page 4955 (top):

Figure 9. Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 44.44' nanocomposites using scattered X-rays generated at tube potentials ranging from 40 to 150 kV. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

The caption was incorrect and should have read:

Figure 9: Percentage attenuation for different thicknesses (as indicated in the legend) of 'BO 37.73' nanocomposites using scattered X-rays generated at tube potentials ranging from 40 to 150 kV. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

We apologize for any inconvenience this may have caused.