

Electronic Supplementary Information

Materials Advances manuscript

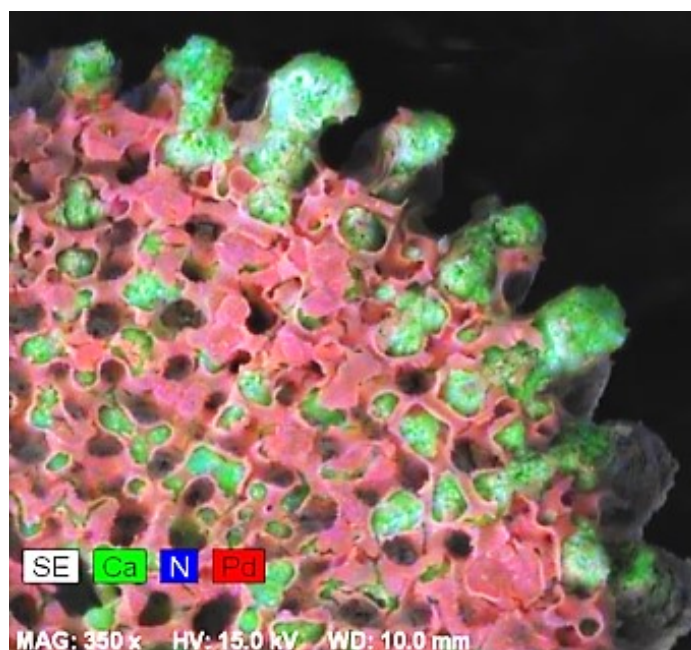
‘Electroless nickel plating on biomineral-based sponge structure’

by H. Takeoka *et al.*

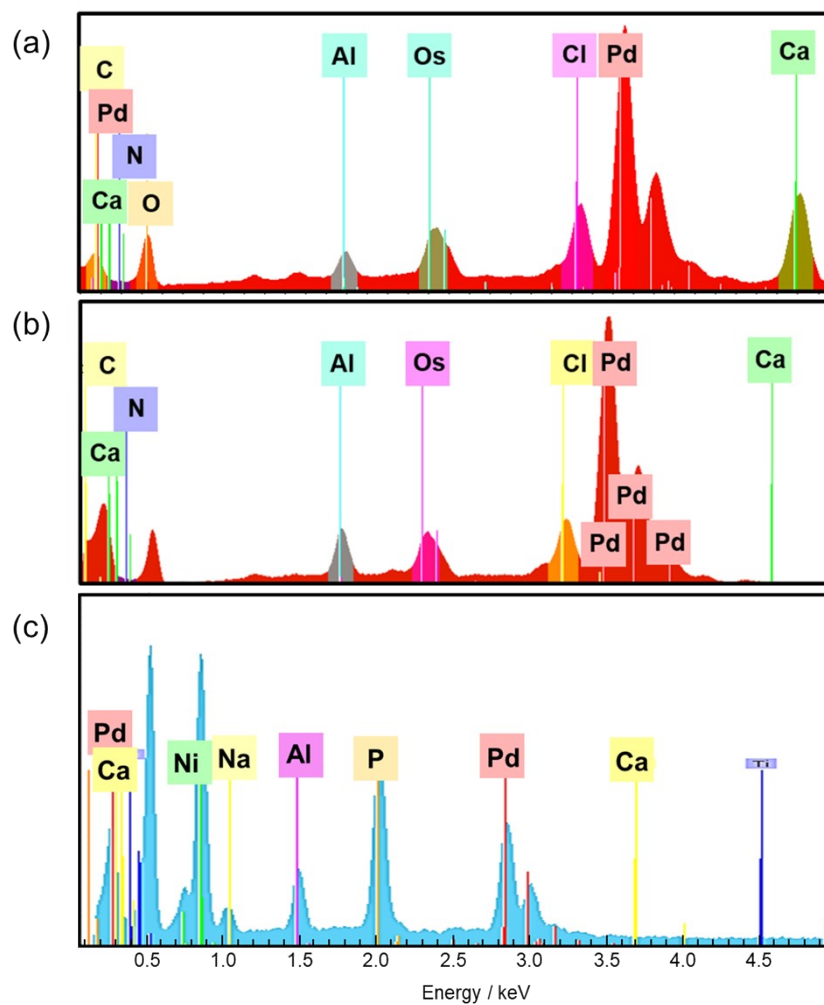
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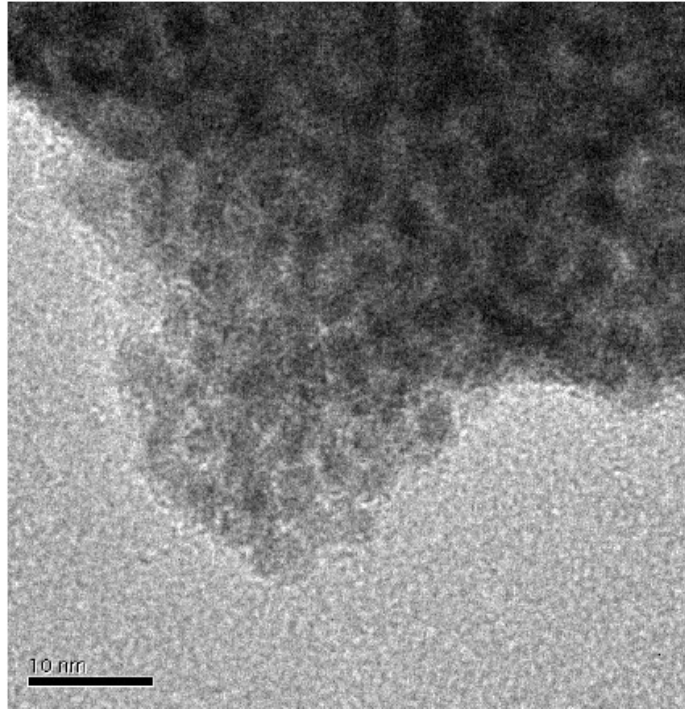
Prof. Syuji Fujii; syuji.fujii@oit.ac.jp



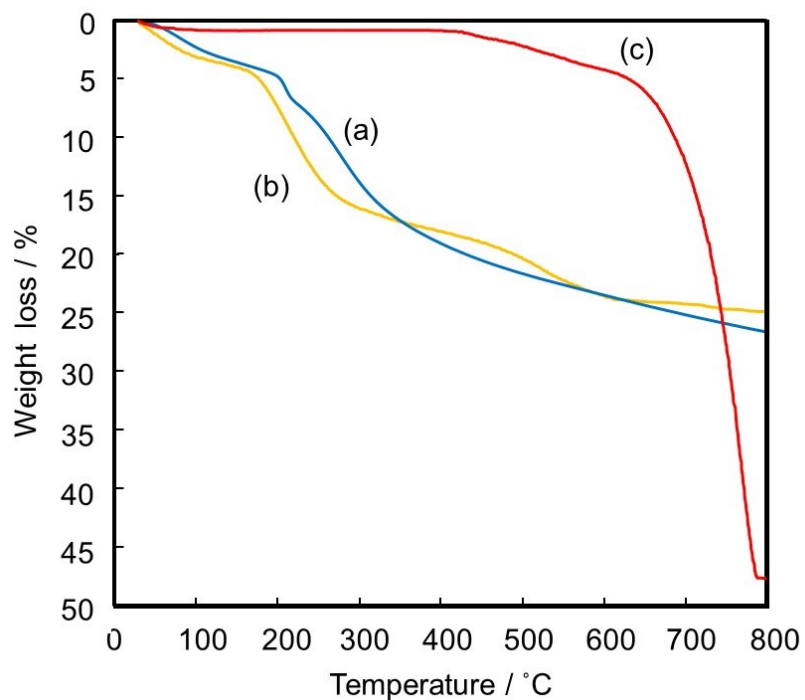
Supporting Figure S1 An EDX image of biomaterial/PPy-Pd nanocomposite: Ca (green) and Pd (red).



Supporting Figure S2 EDX analyses of (a) biominerals/PPy-Pd nanocomposite, (b) PPy-Pd nanocomposite sponge material and (c) Ni-coated PPy-Pd nanocomposite sponge material.



Supporting Figure S3 A TEM image of PPy-Pd nanocomposite.



Supporting Figure S4 TGA curves for (a) PPy-Pd nanocomposite bulk powder, (b) PPy-Pd nanocomposite sponge material and (c) biomaterial. The weight decrease observed in temperature range from 600 and 790 °C is due to decomposition into calcium oxide and carbon dioxide. [Y. Oaki, M. Kijima and H. Imai, *J. Am. Chem. Soc.*, 2011, 133, 8594-8599].