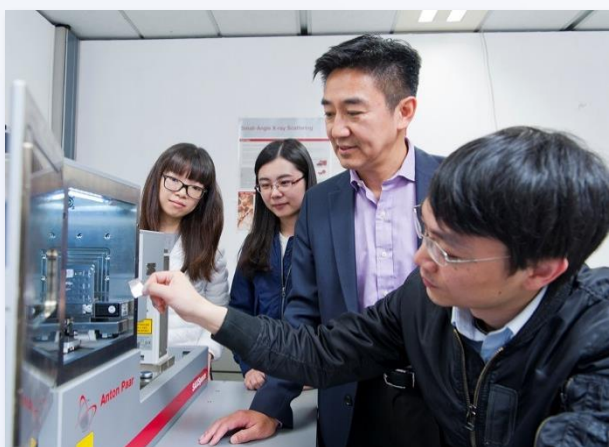


40-year Mystery Solved by Scientist Group Led by Prof Xun-li Wang



Professor Wang (2nd, right) and his research team solved a 40-year scientific mystery.

Professor Xun-li WANG, our Head of Department and Chair Professor of Physics, together with his research collaborators from Australia, Japan and United States, recently uncovered a hidden amorphous phase in the formation of metallic glass. This new breakthrough in the discovery of metallic glass formation has been published in the internationally acclaimed journal *Nature Communications*, and the full article can be found at <http://www.nature.com/articles/ncomms14679>.

Owing to its high resilience which can sustain larger elastic deformation, metallic glass has been used in a variety of applications including but not limited to sports equipment, medical devices and electricity transformers. Building upon the discovery of the hidden amorphous phase, where atoms show a different kind of packing, researchers hope to utilize the simple processing methods such as heat treatment to develop novel materials.

The discovery solved a 40-year scientific mystery and will undoubtedly signify an important milestone in the development of new and better metallic alloys.

Detailed story can be retrieved from the CityU News (20 March 2017):

<http://wikisites.cityu.edu.hk/sites/newscentre/en/Pages/201703201000.aspx>

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5. [【科研突破】城大破解金屬玻璃定型40年謎團 發現新無定型狀態 \[Apple.nextmedia.com\] 2017-03-19](#)
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9. [City University of Hong Kong : 40-year mystery solved by scientist group led by CityU \[4-traders\] 2017-03-19](#)