

Realization of a low carbon society through game changing technologies

Additively Manufactured High Strength Titanium Materials by Solid Solution of Oxygen and Nitrogen Atoms

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Summary :

- Problem; O & N atoms cause a significant decrease of ductility in AM Ti materials.
- Solution; Uniform solid solution of O and N elements in Ti materials by optimization of process conditions in AM & heat treatment.
- Quantitative explanation for solving CO₂ emission; estimated 3 million tons/y in 2040

http://www.jwri.osaka-u.ac.jp/~dpt6/index_en.html

