## **Accepted Manuscript**

Theoretical prediction of the temperature-dependent yield strength of solid solution strengthening Nickel-based alloys

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PII: S0020-7403(17)33476-8 DOI: 10.1016/j.ijmecsci.2018.02.042

Reference: MS 4202

To appear in: International Journal of Mechanical Sciences

Received date: 5 December 2017 Revised date: 20 February 2018 Accepted date: 23 February 2018



Please cite this article as: Haibo Kou, Weiguo Li, Jianzuo Ma, Jiaxing Shao, Yong Tao, Xuyao Zhang, Peiji Geng, Yong Deng, Ying Li, Xianhe Zhang, Fanglan Peng, Theoretical prediction of the temperature-dependent yield strength of solid solution strengthening Nickel-based alloys, *International Journal of Mechanical Sciences* (2018), doi: 10.1016/j.ijmecsci.2018.02.042

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#### ACCEPTED MANUSCRIPT

## **Highlights**

- New temperature-dependent yield strength models are developed for Ni-based alloys.
- Point out temperature-dependent yield strength is sensitive to lattice misfit.
- Variation with temperature of the contribution of each mechanism is firstly made.
- Suggestions to improve the temperature-dependent yield strength are provided.

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