

Accepted Manuscript

Title: Laser joining of metals to plastics with ultrasonic vibration

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PII: S0924-0136(17)30264-9
DOI: <http://dx.doi.org/doi:10.1016/j.jmatprotec.2017.06.036>
Reference: PROTEC 15289

To appear in: *Journal of Materials Processing Technology*

Received date: 20-11-2016
Revised date: 19-4-2017
Accepted date: 19-6-2017

Please cite this article as: Chen, Y.J., Yue, T.M., Guo, Z.N., Laser joining of metals to plastics with ultrasonic vibration. *Journal of Materials Processing Technology* <http://dx.doi.org/10.1016/j.jmatprotec.2017.06.036>

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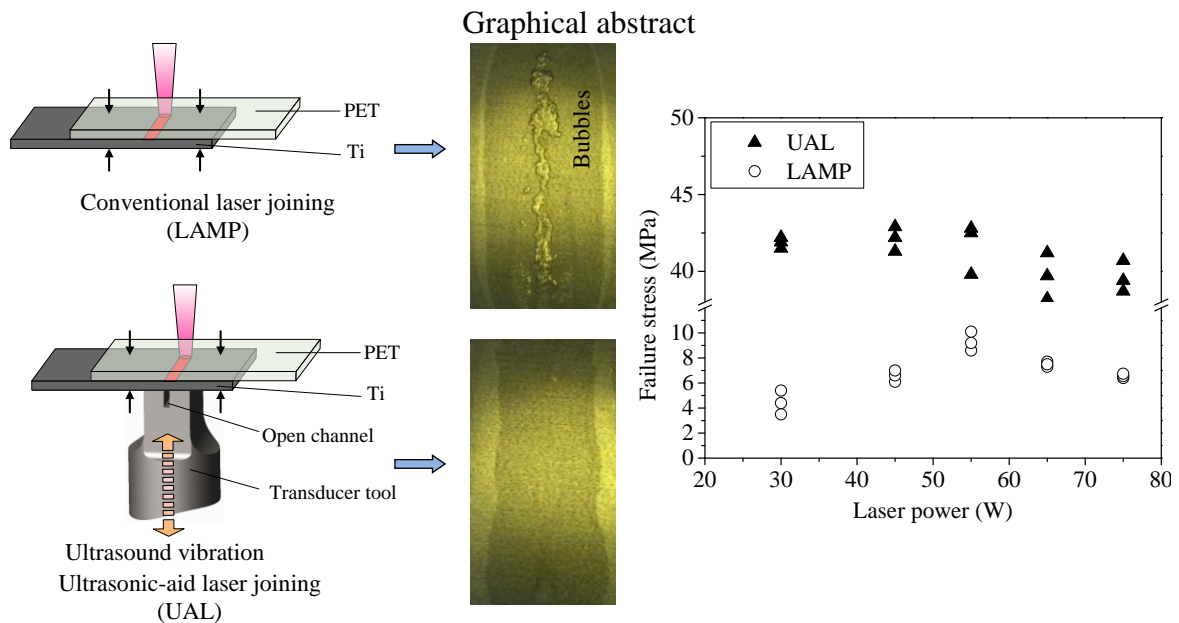
Laser joining of metals to plastics with ultrasonic vibration

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Abstract

Ultrasonic-aided laser joining process (UAL) for bonding metals to plastics has been further developed. With the application of an appropriate ultrasonic transducer tool, the quantity of laser-induced bubbles in the bonding zone can be significantly reduced. The removal mechanism of these bubbles from the molten plastic zone was analyzed based on pressure

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