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| [Residual stress and deformation of thin titanium alloy plates joined by laser deposition](https://links.springernature.com/f/a/FcKYxfc-dFC_B0lS8Abs8g~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2MC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bo He, Renwei Liu, Dan Wu, Bobo Li, Guang Yang |

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| [Mechanical anisotropy and microstructural characterization of AISI 316LSi stainless steel using micro-plasma directed energy deposition](https://links.springernature.com/f/a/jZFWI9LfFt2eP62nGmvbRQ~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2NC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. Hakim, N. Huda, E.B.F. dos Santos, P.D.C. Assunção, A. Gerlich |

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| [Potential of thermography for the monitoring of DED-Arc processes](https://links.springernature.com/f/a/bp9F8e22InVNpEWqHWd9IA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY3Ni0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Johanna Müller, Jonas Hensel |

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| [Effect of liquid nitrogen cryogenic cooling during wire arc directed energy deposition of nickel aluminum bronze](https://links.springernature.com/f/a/zS7-pGyHvaOdOJAbwnjHjQ~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5Mi14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Alexey Kuprienko, Jacob Stickle, Dennis Harwig, Michael Carney, Carolin Fink |

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| [Simulation and analysis of the heat transfer mechanism of arc plasma with CMT plus pulse composite heat source](https://links.springernature.com/f/a/EsrF0XeAkV9e7M3f9va9eA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5NC00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhiqiang Zhang, Qingze Gou, Tiangang Zhang, Xuecheng Lu, Lianyong Xu, Jing Zhang |

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| Dejia Liu, Chongling Ni, Zhe Ma, Bin Li, Yanchuan Tang, Xiangjie Wang |

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| [Microstructure characterization of dissimilar metal welds of innovative high- and medium-entropy alloys to austenitic stainless steels joint by tungsten inert gas and friction stir welding](https://links.springernature.com/f/a/r-sDxCAo7bC5gfjXPOChDA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxOC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Tim Richter, Kjell Erxleben, Michael Rhode, Dirk Schroepfer, Thomas Michael, Andreas Boerner |

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| [Plasma powder transferred arc additive manufacturing of ((Fe, Ni)-Al) intermetallic alloy and resulting properties](https://links.springernature.com/f/a/Qk0Vr6ODEJSAVE79m-mFKA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzMS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
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| [Joining dissimilar metals using cold metal transfer process: a review](https://links.springernature.com/f/a/AuAgYNaZh9OhSChMqEX4dA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzOS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| B. N. Manjunath, P. Jayaprakash, Avinash Mishra, H. S. Karthik, D. Arulkirubakaran, D. V. Kiran, N. Venkaiah |

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| [Influence of nitrogen-doped shielding gas for welding of medium manganese austenites for cryogenic applications](https://links.springernature.com/f/a/j1zV89LS2dex4xhKzEoWPg~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1Ni03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Philipp Neef, Christoph Reppin, Kai Treutler, Andreas Gericke, Knuth-Michael Henkel, Volker Wesling |

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| [Microstructure and wear resistance of in situ TiC-reinforced low-chromium iron-based hardfacing alloys](https://links.springernature.com/f/a/srinz5Jlh0Tz4ACao77b-w~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhixiang Tong, Wei Shao, Chengxing He, Dingyong He |

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| [Component test for the assessment of delayed hydrogen-assisted cracking in thick-walled SAW joints for offshore applications](https://links.springernature.com/f/a/qdjfR1ZI7KEd4tuMxmUZyw~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1OC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Michael Rhode, Arne Kromm, Tobias Mente, Daniel Brackrock, Denis Czeskleba, Thomas Kannengiesser |

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| [Low alloy steel girth welds in X65 steel pipes internally clad with alloy 625](https://links.springernature.com/f/a/Lv7joWOhYCpck0SKJY5dFw~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2MS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Alejandro Alvarez, Martin Schmitz-Niederau, Hermann-Josef Weber, Boian T. Alexandrov |

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| [Stress relaxation cracking susceptibility evaluation in 347H stainless steel welds](https://links.springernature.com/f/a/UPQwPHVMCutHfND_sT1CZw~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY3OC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Timothy Pickle, Yu Hong, Judith Vidal, Chad Augustine, Zhenzhen Yu |

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| [Investigations on hydrogen-assisted cold cracking of laser welded AHSS](https://links.springernature.com/f/a/XvKqR4NYuP4drXl4AS3eeQ~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY3OS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Anton Hopf, Sven Jüttner, Klaus Goth, Michael Luttmer |

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| [Stresses in repair welding of high-strength steels—part 1: restraint and cold cracking risk](https://links.springernature.com/f/a/uZX7yX2sG2ctIN9y_5wQXA~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5MS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| D. Schroepfer, J. Witte, A. Kromm, T. Kannengiesser |

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| [Influence of Ni additions on microstructure, non-magnetic properties, and wear resistance of Fe–Mn-Cr alloy deposited by metal-cored arc welding](https://links.springernature.com/f/a/ZBePsuYK8_81cZVyURkmTg~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5NC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhiheng Qin, Dingyong He, Lixia Ma, Chengxing He, Xu Wu, Guohong Wang |

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| [On the interpretation of Varestraint and Transvarestraint hot cracking test results](https://links.springernature.com/f/a/6wzFwbYQO0M3bOx3qTHTAg~~/AABE5gA~/RgRntvMMP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcwNi04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMjBXA3NwY0IKZc4MbtRlnMa7J1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Arne Kromm, Maximilian Thomas, Thomas Kannengiesser, Jens Gibmeier |

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