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| [A study of microstructural evolution in gas tungsten arc welded AlxCoCrFeNi high entropy alloys](http://links.springernature.com/f/a/XDh8DvNVrvMybarCPw1kag~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU2NC13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Ayush Sourav, D. S. Gowtam, J. K. N. Murthy, Shanmugasundaram Thangaraju |

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| [High-speed laser cladding of chromium carbide reinforced Ni-based coatings](http://links.springernature.com/f/a/MmuWcBUNVLsQiiEdDKBN-w~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU1Ny05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jari Tuominen, Jouko Kiviö, Clara Balusson, Lassi Raami, Jorma Vihinen, Pasi Peura |

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| [Wire arc additive manufacturing of ER-4043 aluminum alloy: evaluation of bead profile, microstructure, and wear behavior](http://links.springernature.com/f/a/EYD13Exume95keyyC0k9fg~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU1OC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kashif Hasan Kazmi, Alok Kumar Das, Sumit K. Sharma, Amitava Mandal, Amarish Kumar Shukla |

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| [Effect of processing parameters on porosity defects during SLM: a DOE-FEM approach](http://links.springernature.com/f/a/HBAwaUhMnh5-i6TZPBNr7g~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU2Ni04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Mouna Ben Slama, Sami Chatti, Lioua Kolsi |

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| [Contrasting the mechanical and metallurgical properties of laser welded and gas tungsten arc welded S500MC steel](http://links.springernature.com/f/a/K1dmiChBUlXJL_JiWbJCqw~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU1My16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Saleh Meiabadi, Fardin Nematzadeh, Kianoosh Kornokar, Hossein Mostaan, Mahmoud ShamsBorhan, Rasoul Khandan, Vincent Demers, Jonathan Lawrence, Mahmoud Moradi |

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| [Laser-hybrid welding of 4716MA0 nickel-based alloy: effects of laser power on microstructure and properties](http://links.springernature.com/f/a/dh6DHzn16hi-68PDIyEbnQ~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU2MS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yongdu Li, Yang Li, Yuan Zhang, Shuang Li, Xianju Zhang, Bin Wang, Zhizhong Lv, Liangwen Liu, Jingyi Wang, Mei Yang |

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| [Fatigue performance of ultra-high-strength steel laser cut notches under variable amplitude loading](http://links.springernature.com/f/a/RAny_FtikrPIdujAgis0Iw~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU0NC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kalle Lipiäinen, Antti Ahola, Timo Björk |

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| [Low-cycle fatigue behavior of differently matched welded joints of quenched and tempered steel](http://links.springernature.com/f/a/_lAV7gEueRFTlmxHZv_U6g~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU0NS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| M. Gáspár, Á. Dobosy, Á. Meilinger, Gy. Nagy |

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| [Thickness effect on fatigue life of HFMI-treated welded joints under negative stress ratio](http://links.springernature.com/f/a/PJfBJojm4-osxaRFnEaQ4Q~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU1Ni13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Shuichi Tsumura, Toshiaki Iwata, Toshio Niwa |

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| [Fatigue strength evaluation by measurable stresses for root cracks in U-rib to deck welded joints of orthotropic steel decks](http://links.springernature.com/f/a/_ezixOQ4yThPyNsmtCOU4A~~/AABE5gA~/RgRmreYCP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU2OC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N185JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA4MDNXA3NwY0IKZMkCYctkGTxGB1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Masafumi Hattori, Kazuo Tateishi, Takeshi Hanji, Masaru Shimizu |

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