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| Dear Reader, |
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| Taiga Taniguchi, Seiji Furusako, Shinji Kodama |

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| Dennis Lauterbach, Nima Eslami, Alexander Harms, Daniel Keil, Klaus Dilger |

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| Yu-Jun Xia, Tian-Le Lv, Hassan Ghassemi-Armaki, Yong-Bing Li, Blair E. Carlson |

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| Saed Enam Mustafa, Rajiv Nandan Rai, Raashid Firoz |

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| Gholamreza Khalaj, Moein Moradi, Ebrahim Asadian |

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| Pascal Pöthig, Michael Grätzel, Jean Pierre Bergmann |

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| [Temperature-based quality analysis in ultrasonic welding of copper sheets with microstructural joint evaluation and machine learning methods](http://links.springernature.com/f/a/rUETNHmIdTt3bFw3V4fcQw~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ2My0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Elisabeth Birgit Schwarz, Fabian Bleier, Friedhelm Guenter, Ralf Mikut, Jean Pierre Bergmann |

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| [A comparative investigation of butt friction stir welding of aluminium alloys, AA 1100 and AA 7075, with AISI 304 stainless steel](http://links.springernature.com/f/a/9xEUggi8t1W9SiiJ7gXV4g~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUxNC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Abhijit Datta, Ankit Shrivastava, Nilrudra Mandal, Himadri Roy, Shitanshu Shekhar Chakraborty |

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| [Keyhole-in-keyhole formation by adding a coaxially superimposed single-mode laser beam in disk laser deep penetration welding](http://links.springernature.com/f/a/cB9Jth426UCW-UbP841Fjw~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4NC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| M. Möbus, P. Woizeschke |

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| [Effect of beam offset on the microstructure and properties of a dissimilar tungsten/kovar electron beam weld](http://links.springernature.com/f/a/KCT-d9JX_InNyj4ABVYSOw~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQxNC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Guoqing Chen, Xinyan Teng, Qianxing Yin, Binggang Zhang, Xuesong Leng |

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| [Quality characteristics and analysis of input parameters on laser beam welding of hairpin windings in electric drives](http://links.springernature.com/f/a/91W1YelvN2Umug0ax5Fi2w~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwMC15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Markus Omlor, Niklas Seitz, Tom Butzmann, Tobias Petrich, Rolf Gräf, Ann-Christin Hesse, Klaus Dilger |

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| [Melting efficiency calculation of “finite-element-modeled” weld-bead and “experimental” weld-bead for laser-irradiated Hastelloy C-276 sheet](http://links.springernature.com/f/a/nkED9ay2c8o3youV4Yr1xA~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUxNS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kalinga Simant Bal, Jyotsna Dutta Majumdar, Asimava Roy Choudhury |

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| [Local weld geometry-based characterization of fatigue strength in laser-MAG hybrid welded joints](http://links.springernature.com/f/a/f3PjyiFvHvfcyGDzcthmSQ~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4OC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Abinab Niraula, Heikki Remes, Pauli Lehto |

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| [Residual stress stability of HFMI-treated transverse attachments under variable amplitude loading with the P(1/3) and the linear spectrum](http://links.springernature.com/f/a/6_VH6aUAjHQI-pdY6cZ9KQ~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5MS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Daniel Löschner, Paul Diekhoff, Richard Schiller, Imke Engelhardt, Thomas Nitschke-Pagel, Klaus Dilger |

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| [Fatigue strength of shot-peened as-welded joints and post-weld-treated and subsequently clean-blasted fillet weld joints](http://links.springernature.com/f/a/_Mb_v_UDR2eulMncK6QhgA~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5OC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A. Ahola, K. Lipiäinen, J. Riski, M. Koskimäki, J. Pyörret, T. Björk |

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| [Capability of weld seam improvement techniques for the fatigue strength optimization of welded high strength steels](http://links.springernature.com/f/a/rkpFQo154E98LJSeMJilwg~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4NS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Tom Werner, Thomas Nitschke-Pagel, Klaus Dilger |

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| [Research on influence parameters and fatigue life prediction method of weld with undercut imperfection](http://links.springernature.com/f/a/iMczjTPlBI0HCSqChb8cUg~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwNy01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhengping He, Bingzhi Chen, Xiangwei Li |

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| [Method for evaluating the ductile fracture properties of steel parent material and weld metal](http://links.springernature.com/f/a/0yrpLNYTj3u4JRP8v26FCw~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUxMi04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Asato Hatamoto, Hiroshi Shimanuki |

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| [Correction to: Quality characteristics and analysis of input parameters on laser beam welding of hairpin windings in electric drives](http://links.springernature.com/f/a/SnJr6p9GVqxfUEE1OWCymQ~~/AABE5gA~/RgRmPzEhP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUyMy01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N182JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA1MTFXA3NwY0IKZFEhrFxkdhT9z1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Markus Omlor, Niklas Seitz, Tom Butzmann, Tobias Petrich, Rolf Gräf, Ann-Christin Hesse, Klaus Dilger |

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