**Welding in the World**. [Volume 65, Issue 3](http://links.springernature.com/f/a/YZAsWh6xTez5RmJZNMccNw~~/AABE5gA~/RgRiKx_2P0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjUvMz91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjVfMyZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjEwMzEwVwNzcGNCCmBH9ppIYNljvbBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)

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| [A non-destructive resonant acoustic testing and defect classification of additively manufactured lattice structures](http://links.springernature.com/f/a/d3WU0IvEZG294HB0KfAjBA~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzNC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A.-F. Obaton, Y. Wang, B. Butsch, Q. Huang |

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| [Effect of chemical composition of welding consumable on slag formation and corrosion resistance](http://links.springernature.com/f/a/N2UuAUGCKpQhjpW5NPWX8w~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTA1OS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yoona Lee, Jonghoon Jang, Stephen Liu |

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| [Hot cracking tendency of flux-cored arc welding with flux-cored wires of types Ni 6625](http://links.springernature.com/f/a/n98_7VdHV4Xq0cFmnj0_Qw~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzNS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Stefan Burger, Manuela Zinke, Sven Jüttner |

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| [Investigation of friction stir welding process applied to ASTM 572 steel plate cladded with Inconel®625](http://links.springernature.com/f/a/xKPKVxotUrwJ3Mi6FuCGZQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwNy13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Renan Mensch Landell, Cleber Rodrigo Lima Lessa, Luciano Bergmann, Jorge Fernandez Santos, Carlos Eduardo Fortis Kwietniewski, Benjamin Klusemann |

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| [Investigating the effect of chemistry on the flash butt weldability of steels through a combination of experiments and modeling](http://links.springernature.com/f/a/wov4yCRWpFA6_nY2tt1KBw~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAyMy13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Nikhil Shajan, Ipsita Madhumita Das, Kanwer Singh Arora, Manas Paliwal, Mahadev Shome |

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| [Friction welding of conventional Ti-6Al-4V alloy with a Ti-6Al-4V based metal matrix composite reinforced by TiC](http://links.springernature.com/f/a/2VsbotLNUaIblMWDqwx-4w~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAyNS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Sergey V. Prikhodko, Dmytro G. Savvakin, Pavlo E. Markovsky, Olexander O. Stasuk, James Penney, Norbert Enzinger, Michael Gaskill, Frank Deley |

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| [Influence of different Ni coatings on the long-term behavior of ultrasonic welded EN AW 1370 cable/EN CW 004A arrestor dissimilar joints](http://links.springernature.com/f/a/SU939umwc7ly0SM5QGCnRQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzMC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Tobias Köhler, Michael Grätzel, Jean Pierre Bergmann |

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| [Investigation of tool offset on mechanical properties of dissimilar AA6061-T6 and AA7075-T6 joint in parallel FSW process](http://links.springernature.com/f/a/4LBJbTix07zhGNGgKFNTFQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzNy00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Amir Ghiasvand, Soran Hassanifard, Maziar Mahdipour Jalilian, Hasan Kheradmandan |

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| [Weld defect localization in friction stir welding process](http://links.springernature.com/f/a/-5e6Spz6PjVHOrHtmC4YrQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAyOC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Debasish Mishra, Sristi Shree, Abhinav Gupta, Ashok Priyadarshi, Sarthak M. Das, Surjya K. Pal, Debashish Chakravarty, Srikanta Pal, Tanushyam Chattopadhyay, Arpan Pal |

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| [Study on the thermal load of the laser impulse metal bonding process to the metallized thermal sensitive substrate](http://links.springernature.com/f/a/Xu8pCKPIXHCWY3azkxbzlw~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTA0MC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| W.-S. Chung, F. Nagel, A. Olowinsky, A. Gillner |

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| [Morphology and texture characterization of grains in laser welding of aluminum alloys](http://links.springernature.com/f/a/3OzfvZMmdyhXx-2lpfR3eQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAxNy04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Qihan Gao, Cheng Jin, Zhibin Yang |

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| [An investigation of different parameters on the penetration depth and welding width of Ti-6Al-4V alloy by plasma arc welding](http://links.springernature.com/f/a/WSPJ4ePNiYiLOV7Wc06bsQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAyNC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Y. Vahidshad, A. H. Khodabakhshi |

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| [Promoting austenite formation in laser welding of duplex stainless steel—impact of shielding gas and laser reheating](http://links.springernature.com/f/a/mKKEFQDO2mbwUr3wpi2HAw~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAyNi03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Amir Baghdadchi, Vahid A. Hosseini, Kjell Hurtig, Leif Karlsson |

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| [Characterization of the local brittle layer formed in electro-gas weld metals](http://links.springernature.com/f/a/1iOKcpA4kBrhuu-5_nUgZA~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzMi05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kangmyung Seo, Hoisoo Ryoo, Hee Jin Kim, Joong Geun Yoon, Changhee Lee |

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| [Microstructure of laser metal deposited duplex stainless steel: Influence of shielding gas and heat treatment](http://links.springernature.com/f/a/AWz5Xo0HX8NSZ6oAyMPYyQ~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAzNi01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Maria Asuncion Valiente Bermejo, Karthikeyan Thalavai Pandian, Björn Axelsson, Ebrahim Harati, Agnieszka Kisielewicz, Leif Karlsson |

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| [The effect of flame straightening on the microstructure and mechanical properties of different strength steels](http://links.springernature.com/f/a/HtjCYr1_qlrEZtsHtXwv0A~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTA1NS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| László Gyura, Marcell Gáspár, András Balogh |

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| [Correction to: Shear strength/microstructure relationship for dissimilar IN738/IN718 TLP joints](http://links.springernature.com/f/a/poM3w4qLK3mxbJMNzcTbxg~~/AABE5gA~/RgRiKx_2P0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDg2MC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAzMTBXA3NwY0IKYEf2mkhg2WO9sFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. Bakhtiari, A. Yarmou Shamsabadi, K. Alipour Moradi |

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