**Welding in the World**. [Volume 65, Issue 8](http://links.springernature.com/f/a/vLByw0vWxfjlwXNNOMROsw~~/AABE5gA~/RgRi0TzZP0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjUvOD91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjVfOCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjEwNzE0VwNzcGNCCmDo2bfuYJMnNrNSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)  

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| [Preliminary investigation of a novel process: synergetic double-sided probeless friction stir spot welding](http://links.springernature.com/f/a/4GWR9Ljl9veQPpH8ANgwHw~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEwNi0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Q. Chu, W. Y. Li, Y. F. Zou, X. W. Yang, S. J. Hao, X. C. Liu, W. B. Wang |

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| [Refill friction stir spot welding of aerospace alloys in the presence of interfacial sealant](http://links.springernature.com/f/a/byP861J_JbiyBc-xaZywlw~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTExMy0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Pedro Sousa Santos, Anthony R. McAndrew, João Gandra, Xiang Zhang |

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| [Establishment of calculation model for the viscoplastic heat production in friction stir welding process](http://links.springernature.com/f/a/EQQbHyqEyoB3FalQDzJ-7A~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEyNi15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Fang Yan, YuCun Zhang, XianBin Fu, Songtao Mi |

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| [Strength and fracture behavior of AA2A14-T6 aluminum alloy friction stir welded joints](http://links.springernature.com/f/a/EG14kbE_P90kUf314SovUQ~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEzMS0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yue Wang, He Ma, Peng Chai, Yanhua Zhang |

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| [Numerical simulation of temperature distribution by 9-point finite difference scheme to study the weld properties of AA1100 friction stir–welded joints](http://links.springernature.com/f/a/4Tp9w1m_1nTZ6ZRjfPWMYg~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE0Mi15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| N. Pallavi Senapati, Rajat Kumar Bhoi |

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| Elizabeth Hoyos, Yesid Montoya, Ricardo Fernández, Gaspar González-Doncel |

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| [A measurement method of weld temperature and tool positioning during friction stir welding process](http://links.springernature.com/f/a/_eXGvMUtBqOFJ3idfjCE5w~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTA2Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Song-tao Mi, Yu-cun Zhang, Xian-bin Fu, Fang Yan, Jiu-li Shen |

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| [Dissimilar joining of stainless steel and aluminum using twin-wire CMT](http://links.springernature.com/f/a/NPFh9IW9jwrfUeYhTX5UGA~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTA4OS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Wanghui Xu, Huan He, Yaoyong Yi, Haiyan Wang, Chen Yu, Weiping Fang |

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| [Effect of different variants of filler metal S Ni 6625 on properties and microstructure by additive layer manufactured using CMT process](http://links.springernature.com/f/a/DYmF4t4B13THBl5YFfSSJQ~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEwNS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Manuela Zinke, Stefan Burger, Julius Arnhold, Sven Jüttner |

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| [Modeling and simulation of heat transfer, fluid flow and geometry morphology in GMAW-based wire arc additive manufacturing](http://links.springernature.com/f/a/EZKC1aD2AZLHBhu_IpAU6g~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEyMy0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Wenyong Zhao, Yanhong Wei, Jinwei Long, Jicheng Chen, Renpei Liu, Wenmin Ou |

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| [Development of surface coatings for high-strength low alloy steel filler wires and their effect on the weld metal microstructure and properties](http://links.springernature.com/f/a/_0Pk4RMrAl4NikTJbo4NSw~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTA4Ni0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| T. Gehling, K. Treutler, V. Wesling |

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| [Development of the matching filler metal for MARBN—new advanced creep resisting alloys for thermal power plant](http://links.springernature.com/f/a/sXKX3K5xGidXo5pKSuUTNQ~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEwNC00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhuyao Zhang, Vincent Mee |

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| [HAZ hardness prediction of boron-added steels](http://links.springernature.com/f/a/iA0f9uI-6AsY_8Opb4R1DA~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTExMS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| T. Kasuya, M. Inomoto, Y. Okazaki, S. Aihara, M. Enoki |

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| [Beneficial use of hyperbaric process conditions for welding of aluminium and copper alloys](http://links.springernature.com/f/a/dLZZ2F8JvtFRKOC702phOQ~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTA4OC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| K. Treutler, S. Brechelt, H. Wiche, V. Wesling |

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| [Heterogeneous creep deformation behavior of functionally graded transition joints (GTJs)](http://links.springernature.com/f/a/7Zj7Wq9vTkmFz3JXLH5uuQ~~/AABE5gA~/RgRi0TzZP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTEyNC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV84JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTA3MTRXA3NwY0IKYOjZt-5gkyc2s1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Mohan Subramanian, Jonathan Galler, John DuPont, Boopathy Kombaiah, Xinghua Yu, Zhili Feng, Sudarsanam Suresh Babu |

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| Michael Rhode, Tim Richter, Dirk Schroepfer, Anna Maria Manzoni, Mike Schneider, Guillaume Laplanche |

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