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| Welding in the World cover image |

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| Dirk Schröpfer, Julien Witte, Arne Kromm, Thomas Kannengiesser |

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| Haihan Jiao, Hui Jin |

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| M. Giese, M. Graebner, D. Schroepfer, K. Treutler, S. Lorenz, T. Kannengiesser, V. Wesling |

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| D. Ioannidou, A. Kaldellis, N. Makris, S. Deligiannis, P. Skarvelis, P. E. Tsakiridis |

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| Zhang Yujiao, Li Yinghao, Niu Sizhe, Wang Hongtao, Zong Ran |

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| Xueping Song, Jia Zhang, Xiaoquan Yu, Huayu Zhao, Jianzhou Xu, Jian Liu, Jiankang Huang, Ding Fan |

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| Zhi Zeng, Yuancheng Yang, Junrui Yuan, Bojin Qi |

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| Nina Schroeder, Michael Rhode, Thomas Kannengiesser |

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| Yingying Zuo, Huijie Liu, Dongrui Li, Yisong Gao, Xuanmo Li |

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| [Non-destructive characterization of resistance projection welded joints by ultrasonic and passive magnetic flux density testing](https://links.springernature.com/f/a/fjKjoBH2ehDzdoo5RD8Feg~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgwOC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Christian Mathiszik, Johannes Koal, Jörg Zschetzsche, Uwe Füssel, Hans Christian Schmale |

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| Karthik Adiga, Mervin A. Herbert, Shrikantha S. Rao, Arun Kumar Shettigar |

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| [Electrode life evaluation for varied electrode material composition and geometry in resistance spot welding of aluminum alloys](https://links.springernature.com/f/a/NzJqrL8ODmk5bPqnO40jIA~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgxNi0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Hong-geun Park, Deepak Kumar, Kwang-su Park, Ki Sung Nam, Yereum Kim, Young-Min Kim, Taeseon Lee |

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| Konstantin Manuel Prabitz, Thomas Antretter, Michael Rethmeier, Bassel El-Sari, Holger Schubert, Benjamin Hilpert, Martin Gruber, Robert Sierlinger, Werner Ecker |

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| Muhammad Usama Yameen, Khawar Hussain, Muhammad Afzal, Naveed Akhtar, Ameeq Farooq |

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| [Simulation of nonuniform heating induced by alternating-current rail flash butt welding at the end face](https://links.springernature.com/f/a/nZXWi3x66aRJX-zvMVtHZQ~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgyMS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Xiao Wang, Hui Chen, Zongtao Zhu, Meiqi Hao, Hongtao Tan, Yuhu Pei, Qibing Lv |

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| [Influences of the beam offset on microstructures and performance of fiber laser welded Nb521/Ti dissimilar joints](https://links.springernature.com/f/a/cFGRR7Nd8qeVXxNY4eWsZA~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc5MS05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Feipeng An, Linjie Zhang, Gang Zhao, Shurong Li, Suck Joo Na |

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| [Effect of laser power on weld microstructure of AA6082 sheets remote laser welded by circular beam wobbling](https://links.springernature.com/f/a/4w_g8uaJDfBf9g2uBvJ00w~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgwMi05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Ugur Avci, Pasquale Franciosa |

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| [Mechanical and electrochemical behaviour of electron beam welded commercially pure aluminium using oscillating beam](https://links.springernature.com/f/a/1Z8IiOSIq69TCw5SvrqhWQ~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgyMy00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Aakash Rathore, Jeetendra Kumar Singh, Gour Gopal Roy, Indranil Manna, Jyotsna Dutta Majumdar |

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| [Composition design for modified nickel nanopastes containing a low-melting element as additive for pressureless nanojoining](https://links.springernature.com/f/a/ubZgkVRyWWeg-gCnWdcCmw~~/AABE5gA~/RgRox9ZUP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY5OS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwOTE0VwNzcGNCCmbhVFHlZoHDG5ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Benjamin Sattler, Susann Hausner, Nick Rudolph, Guntram Wagner |

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