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| [Prediction of bead geometry with consideration of interlayer temperature effect for CMT-based wire-arc additive manufacturing](http://links.springernature.com/f/a/onlqSTRyzd_9kvB3RHgfEA~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE5Mi0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Zeya Wang, Sandra Zimmer-Chevret, François Léonard, Gabriel Abba |

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| [Multiple output analysis for advanced waveform and controlled short-circuit MIG/MAG variants](http://links.springernature.com/f/a/jKirCVyGPj8U-tr5Xz0ixA~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE3Ni0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Régis Henrique Gonçalves e Silva, Daniel Galeazzi, Pedro Correa Jaeger Rocha, Alberto Bonamigo Viviani, Rafael Albino Bernardi |

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| [Regulation of welding residual stress in laser-welded AISI 304 steel-niobium joints using a Cu interlayer](http://links.springernature.com/f/a/D4eBXfMX1Qm9KhyWkiaZHA~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE3Ny0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Mingxiao Shi, Jiugong Chen, Jingyong Li, Weidong Mao, Shengliang Li, Xiang Ma, Huifeng Ni, Haochun Xia |

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| [Determination of LME sensitivity of zinc-coated steels based on the programmable deformation cracking test](http://links.springernature.com/f/a/3xxjG_-FMcwOy-Gs5ZWpLg~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE4MC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| M. Meyerdierks, M. Zinke, S. Jüttner, E. Biro |

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| [Effect of welding current on the microstructures and mechanical properties of GTAW joints for ZLa22 alloy](http://links.springernature.com/f/a/_DI2C4t_dx2lwOvvM3shOg~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE4NC0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Weiyang Zhou, Qichi Le, Ruizhen Guo, Liang Ren, Liang Chen, Xingrui Chen, Xuqiang Huang |

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| Elin M. Westin, S. McCarrick, L. Laundry-Mottiar, Z. Wei, M. C. Biesinger, I. Barker, R. Wagner, K.-A. Persson, K. Trydell, I. Odnevall, H. L. Karlsson, Y. S. Hedberg |

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| [Microstructure evolution of friction stir processed 2507 duplex stainless steel](http://links.springernature.com/f/a/R0e0R3RVYv8QCQ7EPZaDOQ~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE3NS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Shikang Gao, Hongyun Zhao, Renxiao Zhang, Chengyue Ma, Li Zhou, Guo Chen, Degang Li, Haifeng Yang, Xiaoguo Song, Yunqiang Zhao |

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| Bruna Figueredo, Dileep Chandran Ramachandran, Andrew Macwan, Elliot Biro |

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| [Influence of ultrasonic vibration on the microstructure and texture evolution of AZ91 magnesium alloy during ultrasonic-assisted friction stir welding](http://links.springernature.com/f/a/BQRz4eOqst_e39xeKFRySw~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE1Ny01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| F. Baradarani, S. Emami, A. Mostafapour, F. Khan MD |

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| [Study on ultrasonic bonding characteristics of semi-solid Al6061](http://links.springernature.com/f/a/_UgJCfwOnsswfTvy2BR2yA~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE2My03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Hao Li, Qi Zhang, Miao Cao, Zhenglong Liang |

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| [Welding exposure scenarios](http://links.springernature.com/f/a/k_iX2_cEg7VnKdQdHzlpDQ~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE4Mi00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| V. Mee |

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| [Influence of current pulsation on solidification parameters during micro-plasma arc welding of thin sheet Alloy 718](http://links.springernature.com/f/a/3u7etoxTqySgqifmZhYnyg~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE5MS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| A. K. Sahu, S. Bag |

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| [Numerical simulation for dynamic behavior of weld pool and fusion hole in TIG welding with gap](http://links.springernature.com/f/a/VKTJmWgDnjFgP8EMZPUPeA~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE4OC15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Xiaofei Wang, Min Lu, Jinqiang Gao |

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| [The reconsitution of the weld pool surface in stationary TIG welding process with filler wire](http://links.springernature.com/f/a/VwiXxr_NPRZ5CUTlOXj39w~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE5NS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Jiankang Huang, Guangyin Liu, Jing He, Shurong Yu, Shien Liu, Huizi Chen, Wei Pan, Ding Fan |

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| [**» Abstract**](http://links.springernature.com/f/a/VwiXxr_NPRZ5CUTlOXj39w~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE5NS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)    [**» Full text HTML**](http://links.springernature.com/f/a/VwiXxr_NPRZ5CUTlOXj39w~~/AABE5gA~/RgRjZ6N8P0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTE5NS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjExMTA1VwNzcGNCCmGBfB6FYYSLxBlSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) [**» Full text PDF**](http://links.springernature.com/f/a/YEKysu1rPwWMmnIhAx7y6w~~/AABE5gA~/RgRjZ6N8P0SgaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjEtMDExOTUtej91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjVfMTImdXRtX2NvbnRlbnQ9ZXRvY19zcHJpbmdlcl8yMDIxMTEwNVcDc3BjQgphgXwehWGEi8QZUhJjd3MtYW5iQGN3cy1hbmIuY3pYBAAABx4~) |

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