

**Welding in the World**. [Volume 66, Issue 5](http://links.springernature.com/f/a/f2juEt_P-JW4KJMAErm5Iw~~/AABE5gA~/RgRkM_UTP0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjYvNT91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjZfNSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwNDA5VwNzcGNCCmJLE3BRYkfKvy1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)

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| [Effect of heat input on microstructure and mechanical property of wire-arc additive manufactured Ti-6Al-4V alloy](http://links.springernature.com/f/a/XAZdrLnxuLXvR7KWUlk19A~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTI0OC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Guo Xian, Jeong mok Oh, Junghoon Lee, Sang Myung Cho, Jong-Tak Yeom, Yoonsuk Choi, Namhyun Kang |

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| [Effect of process parameters and heat treatments on delta-phase precipitation in directed energy deposited alloy 718](http://links.springernature.com/f/a/Yu1jdMn4_MfKF-oqieXdLA~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1My0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Suhas Sreekanth, Kjell Hurtig, Shrikant Joshi, Joel Andersson |

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| [Effect of laser energy excitation position on the microstructure in laser-arc hybrid heat source processing](http://links.springernature.com/f/a/aSA9TkAC71q46iWxymbvyQ~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2MC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yuhua Cai, Yi Luo, Fanshun Tang, Xinxin Wang, Fuyuan Zhang, Yanrui Peng, Shuqing Yang |

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| [Laser spot welding of additive manufactured 304L stainless steel](http://links.springernature.com/f/a/qjKP5_FDrS5G4a92xUGiAw~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Cheryl Hawk, Brian Simonds, Jack Tanner, Robin Pacheco, Michael Brand, Greg Vigil, Daniel Javernick, Stephen Liu |

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| [Influence of pin profile on microstructure and mechanical properties of armour grade AA5083 friction stir welding butt joints](http://links.springernature.com/f/a/ZLZ4_9Z288GrlLSf2EMVcQ~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTIzNS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. SaravanaKumar, T. Rajasekaran |

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| [Influence of the rotation speed on the interface microstructure and joining quality of aluminum alloy 6061/CF-PPS joints produced by refill friction stir spot welding](http://links.springernature.com/f/a/cV1xAXlamaDdGYa-iCXiqg~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1OC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hong Li, Xu-sheng Liu, Yu Zhang, Tao Yuan, Erika Hodúlová, Beáta Šimeková, Mariusz Bober, Jacek Senkara, Zhuo-xin Li |

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| [Welding quality evaluation for refill friction stir spot welding based on three-dimensional feature of ultrasonic image](http://links.springernature.com/f/a/2PMDJr_l9FN5-4W3RFAuYg~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI4My04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xue Li, Yanbo Liu, Honggang Yi, Zhu Wang, Min Li |

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| [Corrosion susceptibility and mechanical properties of friction-stir-welded AA2024-T3 joints](http://links.springernature.com/f/a/am_2PUhs6FvtHJ0sBle_SQ~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI4Mi05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Na Li, Yaxin Xu, Wenya Li, Pengliang Niu, Achilles Vairis |

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| [Structural changes from vibration welding of maple and pine woods analyzed by solid-state NMR](http://links.springernature.com/f/a/ZEUpyDinugv-OTWlCLjAzg~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTI0My04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Curtis Covelli, Shichen Yuan, David Grewell, Klaus Schmidt-Rohr |

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| [Effects of solder thickness on interface behavior and nanoindentation characteristics in Cu/Sn/Cu microbumps](http://links.springernature.com/f/a/VVFtGYbQXwvGRTDs7FBHlg~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2MS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhiyuan Zhang, Jieshi Chen, Jianing Wang, Yuzhu Han, Zhiyuan Yu, Qinzhao Wang, Peilei Zhang, Shanglei Yang |

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| [Effect of welding temperature on microstructure and mechanical properties of TiAl/Ti2AlNb spark plasma diffusion welded joint](http://links.springernature.com/f/a/gqTUb0aNMuaKnY7KoTqMbw~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMS0wMTI0Ny00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Mingqian Ma, Chunhuan Chen, Lu Chai, Yanlong Lv, Jinbao Hou, Boxian Zhang |

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| [Evaluation of the microstructures and mechanical properties of AISI2205 stainless steel TLP joints using BNI-3 filler metal](http://links.springernature.com/f/a/7t8ubnYalsKaoxNOGjRBZQ~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1MC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Alireza Beheshti, Masoud Mosallaee, Afshin Babanezhad |

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| [Microstructure and properties of TLPB joints of IN718 with 3D waveform structure prepared by SLM](http://links.springernature.com/f/a/A7siUjf-oXWJYZZ6amM9Ow~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1MS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Boyu Wang, Haichuan Shi, Peilei Zhang, Zhishui Yu, Hua Yan, Qiran Cheng, Nan Song |

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| [Comparison of the core–shell and mechanical mixing of the Ni–Cr-P-Cu composite filler metal](http://links.springernature.com/f/a/el9FbapFHlN9D_e5Olz71g~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1Mi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| J. F. Tan, M. Wan, W. P. Han, R. Zhao, H. Kang, P. Qu |

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| [Research on interface structure and performance of diamond brazed coating based on non-vacuum environment](http://links.springernature.com/f/a/-JWo3YRA3I4etvBdezKNig~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI1OS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Weimin Long, Quanbin Lu, Sujuan Zhong, Jian Qin, Hua Yu, Aiping Wu |

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| [An investigation of the influence of integration of steel heat treatment and brazing process on the microstructure and performance of vacuum-brazed cemented carbide/steel joints](http://links.springernature.com/f/a/eVOYM59MoiiR9k4qYNc0HA~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI2Ni05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| W. Tillmann, T. Ulitzka, L. Dahl, L. Wojarski, H. Ulitzka |

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| [Correction to: Mechanical properties of wire and arc additively manufactured high-strength steel structures](http://links.springernature.com/f/a/a6U8-96_kyXja6ZBkNJDaw~~/AABE5gA~/RgRkM_UTP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI3NS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA0MDlXA3NwY0IKYksTcFFiR8q_LVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Johanna Müller, Jonas Hensel, Klaus Dilger |

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