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| Antoine Queguineur, Rahul Cherukuri, Aloshious Lambai, Manasi Sameer Dalal, Pasi Peura, Gaurav Mohanty, Jean-Yves Hascoët, Iñigo Flores Ituarte |

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| Shakti Swaroop Choudhury, Ratna Kumar Annabattula, Murugaiyan Amirthalingam |

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| Toshiki Maruyama, Yosuke Ogino, Tomokazu Sano |

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| Bohan Li, Yonghua Shi, Zishun Wang |

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| Yinghao Li, Ran Zong, Yujiao Zhang, Boyang Zhang |

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| [Robotic welding system for adaptive process control in gas metal arc welding](https://links.springernature.com/f/a/-_c06aTvoH6KfxDnzopsiQ~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc1Ni15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A. Biber, R. Sharma, U. Reisgen |

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| H. Wu, Y. L. Chang, C. H. Chang |

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| Stepan Skripko, Anton Gordynets, Alexey Kiselev, Mikhail Slobodyan |

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| [Study on Intermetallic Compound (IMC) in dissimilar joining of steel and aluminum (Fe-Al) – a review paper](https://links.springernature.com/f/a/9lGiLdZhz6yOqiF_jFdVCA~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc4NC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Syahril Azli Abdul Rahman, Sarizam Mamat, Muhammad Iqbal Ahmad, Narong Mungkung, Toshifumi Yuji, Shinichi Tashiro, Manabu Tanaka |

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| [Microstructure of conventional/PBF-LB/M 316L stainless steel hybrid joints brazed with nickel-based brazing alloys](https://links.springernature.com/f/a/7R47b59EJm9pBdMnnZOvXw~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1Mi14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| W. Tillmann, J. Bültena, L. Wojarski, A. Crasmöller |

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| [Recent progress in the fabrication of diamond joints/coatings/composites via laser technology](https://links.springernature.com/f/a/wOPvkOU19-8h7LwxjXnAzA~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1NS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jian Qin, Peiyao Jing, Hongtao Zhu, Xinyi Song, Xu Su, Weimin Long, Zidong Wang |

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| [Effect of Nd element on the microstructure and mechanical performance of brazed diamonds with Ni–Cr filler metal](https://links.springernature.com/f/a/XfOKr5dCZagWyeNonCUY8Q~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcyNS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Banglun Wang, Pengbo Wang, Changjin Liu, Zhihao Chen, Zhan Cheng, Xi Wang, Dong Xu |

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| [Nickel-plated SiCp/Al composites brazed in the air: microstructure and mechanical properties of brazed joints under different processes](https://links.springernature.com/f/a/t551mC83UrRhWAQpW8GSUQ~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTczMi02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Dechao Qiu, Dongfeng Cheng, Jitai Niu, Xianli Ba, Josip Brnic |

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| [In situ observation of the pore formation during laser-based reactive air brazing of alumina](https://links.springernature.com/f/a/2wq3IHOmDtVGsYYDNRtD_A~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTczMy01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Lukas Wojarski, Henrik Ulitzka, Anna Geldmacher, Tim Ulitzka, Wolfgang Tillmann |

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| [Effect of filler paste’s mixing ratio on the properties of Al-64430 dip-brazed joints](https://links.springernature.com/f/a/2eTogqWwT6qb1xZczWOCZA~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc3Mi15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Siddharth Garg, Qasim Murtaza |

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| [Ti–Zr–Cu–Co–Fe amorphous/nanocrystalline brazing filler metals for joining Ti-6Al-4V alloy](https://links.springernature.com/f/a/7VRDJgiNoN707W5CnRuyxw~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc3Ni04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Rao Peng, Yan Si, Huyang Li, Xueyin Bai, Shujie Pang, Huaping Xiong, Tao Zhang |

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| [Dissimilar transient liquid phase bonding of Ti-6Al-4V alloy to Inconel 625 superalloy: effect of bonding temperature on microstructural evolutions and mechanical properties](https://links.springernature.com/f/a/TraNo2o6LWh0YiE8milqcg~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc3Ny03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Behnam Zorriatolhosseini, Seyyed Ehsan Mirsalehi, Faezeh Shamsi |

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| [Enhanced mechanical properties of TZM joint brazed at high temperature using Mo-Ni filler metal with Boron addition](https://links.springernature.com/f/a/-ndUxqP8l2rcjkf0v8l5eQ~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc4My05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Quanbin Lu, Junlan Huang, Zongye Ding, Dengwen Hu, Gaoming Lu, Weimin Long |

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| [Microstructures and mechanical properties of TiAl joint brazed with Ti-Mn-Fe-Ni-Zr system medium-entropy filler alloy](https://links.springernature.com/f/a/F5k0KRciBH9fxnlB0p9hxg~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc4NS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhiliang Zhai, Xinyu Ren, Yonglai Shang, Yaoyong Cheng, Haishui Ren, Huaping Xiong, Yongjuan Jing |

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| [Interfacial microstructure and electrochemical behavior of diffusion welded joints of Zr-Alloy and super duplex stainless steel](https://links.springernature.com/f/a/wOscVdoTQXPlughD01X6Aw~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgwNC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Avinash Kumar, Arindam Dhar, Ishita Koley, Sukumar Kundu |

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| [**» Abstract**](https://links.springernature.com/f/a/wOscVdoTQXPlughD01X6Aw~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgwNC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](https://links.springernature.com/f/a/wOscVdoTQXPlughD01X6Aw~~/AABE5gA~/RgRohzAyP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTgwNC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF85JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA3MjdXA3NwY0IKZqAyq6RmJJBVNVISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](https://links.springernature.com/f/a/l_-7s__J41QT0XcSe5w0gQ~~/AABE5gA~/RgRohzAyP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjQtMDE4MDQtNz91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjhfOSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwNzI3VwNzcGNCCmagMqukZiSQVTVSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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