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| Johannes G. Hoffer, Andreas B. Ofner, Franz M. Rohrhofer, Mario Lovrić, Roman Kern, Stefanie Lindstaedt, Bernhard C. Geiger |

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| Xing Han, Chang Li, Xing Gao, Xinxue Chen, Zhaotai Liu |

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| Song Zhu, You Nakahara, Motomichi Yamamoto, Kenji Shinozaki, Hideki Aono, Ryo Ejima |

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| Sen Li, Jinqiang Gao, Erlong Zhou, Qiong Pan, Xiaofei Wang |

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| Xiaoyu Cai, Bolun Dong, Sanbao Lin, Shihua Duan, Zhida Ni, Fengya Hu |

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| Kaiyuan Wu, Ziwei Chen, Hao Huang, Xiaobin Hong, Min Zeng, Zhao Liu |

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| [Analysis of current pulse during short-circuit phase in CMT version of GMAW process under a view of additive manufacturing](http://links.springernature.com/f/a/QNE-gWsuAZnhnBiUArNsnw~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI5OC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Daniel Galeazzi, Régis Henrique Gonçalves e Silva, Ivan Olszanski Pigozzo, Alisson Fernandes Rosa, Alex Sandro Pereira, Cleber Marques |

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| [Development of a simulation model of the manual gas tungsten arc welding process and visualization of the welder’s skill](http://links.springernature.com/f/a/hE9AP3DuxCFoIpzLLrnpqQ~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMwNy0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yosuke Ogino, Kota Imai, Satoru Asai, Yoshihiro Tsujimura, Shinichiro Nakamura, Tsuyoshi Ogawa |

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| [Study on interface morphology and effect of gap gas in explosive welding](http://links.springernature.com/f/a/wUTsDRq3ZX-3nge4ItD5Fg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI4MC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xiangyu Zeng, Xiang Chen, Ping Jin, Xiaojie Li |

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| [Weld quality evaluation: heating after cross-section (HACS)](http://links.springernature.com/f/a/mS3L1FyuiX0a1K27LlcvDQ~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI3Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Miranda Marcus, Matt Nitsch |

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| [Numerical study of thermo-mechanical responses in laser transmission welding of polymers using a 3-D thermo-elasto-viscoplastic FE model](http://links.springernature.com/f/a/yCXe_1DRoP6mLohsZqyRBg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMwMC13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bappa Acherjee |

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| [Effect of element Zr in Ti-Zr–Ni-Nb system brazing filler alloys on the microstructure and strength of TiAl/TiAl joints](http://links.springernature.com/f/a/hgMFjOH6F5lyUxPcQ8EzKQ~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI3NC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yong-Lai Shang, Xin-Yu Ren, Hai-Shui Ren, Shu-Jie Pang, Yong-Juan Jing, Yao-yong Cheng, Hua-Ping Xiong |

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| [Mechanism of intergranular penetration of liquid filler metal into oxygen-free copper](http://links.springernature.com/f/a/9oUeqDO9we1JTDXAg-bc2Q~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI3OC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Guoqian Mu, Yanhua Zhang, Wenqing Qu, Hongshou Zhuang |

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| [Fabrication of joint based on Cu@Sn@Ag core–shell preform under ambient atmosphere for high-temperature applications](http://links.springernature.com/f/a/2MFxnFLRY3ggH_SAXLIVNA~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTI4OS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hong Li, Xuan Liu, Hongyan Xu, Ju Xu, Erika Hodúlová, Ingrid Kovaříková |

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| [Joining of Al2O3 to Cu with Cu-Sn-Ti active brazing filler alloy](http://links.springernature.com/f/a/t7aGEK7ev-9QnnjxoU7gjg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMwNS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Linlin Yuan, Wei Wang, Xiaomeng Huang, Yuefeng Qi, Xiaoying Li |

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| [Obituary: Dr. Arun Kumar Bhaduri (India)](http://links.springernature.com/f/a/R3MiY-FJFLsydMMqyXVrzg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMxOC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| John C. Lippold |

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| [**» Abstract**](http://links.springernature.com/f/a/R3MiY-FJFLsydMMqyXVrzg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMxOC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/R3MiY-FJFLsydMMqyXVrzg~~/AABE5gA~/RgRkeHvcP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMxOC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl83JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMjA1MzFXA3NwY0IKYobc9pVipcTWW1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/lo985z-B_iXt11oTAj6OJQ~~/AABE5gA~/RgRkeHvcP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjItMDEzMTgtMD91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjZfNyZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwNTMxVwNzcGNCCmKG3PaVYqXE1ltSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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