|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Effect of Ni coating on the wettability and failure properties of a BiCu solder alloy](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1eITk55t5b24&s=KEBJKDKBKILMAMME) J. K. Yu, X. C. Zhao, Q. Y. Li, Q. Qiao, Y. Q. Guo & H. B. Yang |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1fITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1gITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1hITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[An online surface height measurement method for GTAW-based additive manufacturing](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1iITk55t5b24&s=KEBJKDKBKILMAMME) Xiaolong Wang, Aimin Wang & Yuebo Li |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1jITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1kITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1lITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Evaluation of microstructural and mechanical properties of dissimilar Inconel 625 nickel alloy–UNS S32205 duplex stainless steel weldment using MIG welding](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1mITk55t5b24&s=KEBJKDKBKILMAMME) M. Tumer, T. Karahan & T. Mert |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1nITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1oITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1pITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Influence of welding angle on the weld morphology and porosity in laser-arc hybrid welding of AA2219 aluminum alloy](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1qITk55t5b24&s=KEBJKDKBKILMAMME) Cong Chen, Yiping Shen, Ming Gao & Xiaoyan Zeng |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1rITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1sITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1tITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Single-phase friction riveting: metallic rivet deformation, temperature evolution, and joint mechanical performance](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1uITk55t5b24&s=KEBJKDKBKILMAMME) Gonçalo Pina Cipriano, Aakash Ahiya, Jorge F. dos Santos, Pedro Vilaça & Sergio T. Amancio-Filho |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1vITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1wITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1xITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Multiphysical characterization of FSW of aluminum electrical busbars with copper ends](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1yITk55t5b24&s=KEBJKDKBKILMAMME) Dagur Ólafsson, Pedro Vilaça & Jussi Vesanko |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI1zITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI20ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI21ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Effect of process parameter characteristics on joint strength during ultrasonic metal welding of electrical contacts](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI22ITk55t5b24&s=KEBJKDKBKILMAMME) J. Pradeep Kumar |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI23ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI24ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI25ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Weldability testing to understand composition effects on eutectic backfilling in Ni-30Cr alloys](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI26ITk55t5b24&s=KEBJKDKBKILMAMME) R. A. Wheeling & J. C. Lippold |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI27ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI28ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI29ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Thermodynamic simulation of ferritic to ferritic dissimilar metal welds](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2aITk55t5b24&s=KEBJKDKBKILMAMME) Fabian Dittrich, P. Mayr & J. A. Siefert |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2bITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2cITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2dITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Numerical simulation of microscopic residual stress evolution in polycrystalline aggregate subjected to weld thermal cycle](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2eITk55t5b24&s=KEBJKDKBKILMAMME) Y. Mikami, W. Sadakane & M. Mochizuki |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2fITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2gITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2hITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Evaluation of hydrogen-assisted cracking susceptibility in modified 9cr-1mo steel welds](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2iITk55t5b24&s=KEBJKDKBKILMAMME) Gopa Chakraborty, R. Rejeesh, O. Venkata Ramana & S. K. Albert |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2jITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2kITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2lITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[An overview on the cold wire pulsed gas metal arc welding](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2mITk55t5b24&s=KEBJKDKBKILMAMME) R. A. Ribeiro, P. D. C. Assunção, E. B. F. Dos Santos, E. M. Braga & A. P. Gerlich |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2nITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2oITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2pITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Fatigue crack detection using a piezoelectric ceramic sensor](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2qITk55t5b24&s=KEBJKDKBKILMAMME) Shogo Morichika, Hidehiko Sekiya, Osamu Maruyama, Shuichi Hirano & Chitoshi Miki |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2rITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2sITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2tITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Application of fracture mechanics to welds with crack origin at the weld toe—a review. Part 2: welding residual stresses. Residual and total life assessment](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2uITk55t5b24&s=KEBJKDKBKILMAMME) U. Zerbst |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2vITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2wITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2xITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Influence of cyclic loading on the relaxation behavior of compressive residual stress induced by UIT](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2yITk55t5b24&s=KEBJKDKBKILMAMME) Takyuki Yonezawa, Hiroshi Shimanuki & Takeshi Mori |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI2zITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI30ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI31ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Prediction of welding-induced distortions in large weld structure through improved equivalent load method based on average plastic strains](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI32ITk55t5b24&s=KEBJKDKBKILMAMME) Saurav Suman, P. V. S. S. Sridhar, Pankaj Biswas & Deepjyoti Das |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI33ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI34ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI35ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Development of high entropy alloys for brazing applications](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI36ITk55t5b24&s=KEBJKDKBKILMAMME) W. Tillmann, T. Ulitzka, L. Wojarski, M. Manka, H. Ulitzka & D. Wagstyl |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI37ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI38ITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI39ITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Brazing of porous copper foam/copper with amorphous Cu-9.7Sn-5.7Ni-7.0P (wt%) filler metal: interfacial microstructure and diffusion behavior](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3aITk55t5b24&s=KEBJKDKBKILMAMME) Nur Amirah Mohd Zahri, Farazila Yusof, Yukio Miyashita, Tadashi Ariga, A. S. Md.Abdul Haseeb, Nashrah Hani Jamadon & Nazatul Liana Sukiman |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3bITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3cITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3dITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Shear strength/microstructure relationship for dissimilar IN738/IN718 TLP joints](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3eITk55t5b24&s=KEBJKDKBKILMAMME) R. Bakhtiari, A. Yarmou Shamsabadi & K. Alipour Moradi |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3fITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3gITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3hITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Research Paper |  |

[Experimental study on brazing AZ31B magnesium alloy by magnalium alloys](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3iITk55t5b24&s=KEBJKDKBKILMAMME) Yongchao Wu, Wenqing Qu, Zheng Wang & Hongshou Zhuang |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3jITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3kITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3lITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Correction |  |

[Correction to: In-process monitoring of micro series spot welding using dual accelerometer system](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3mITk55t5b24&s=KEBJKDKBKILMAMME) Han Jun Lin & Hee Seok Chang |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3nITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3oITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3pITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| Institute News |  |

[Vale Marcel Evrard](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3qITk55t5b24&s=KEBJKDKBKILMAMME)  |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3rITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text HTML**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3sITk55t5b24&s=KEBJKDKBKILMAMME)   [**» Full text PDF**](http://alerts.springer.com/re?l=D0In6dz8lI6hqu6ixI3tITk55t5b24&s=KEBJKDKBKILMAMME) |

 |

 |