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| Semih Okan Yaz, Eren Yılmaz |

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| Mohammad-Amin Alirezaei, Ramin Raiszadeh, Gholam Reza Khayati |

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| X. Guo, K. Xu, C. Wei, Y. L. Jiang, X. C. Lv, Y. J. Xu |

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| [Microstructure and mechanical properties characterization of aged and repair welded Alloy 617M](http://links.springernature.com/f/a/dqebSP5ujalMtt4aPdfmfA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5Ny00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bhavana Unikela, Harish Chandra Dey, Shaju K. Albert |

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| [Influence of alloying elements and cooling rate on the presence of delta ferrite in modified 9Cr–1Mo as-welded microstructure produced by gas–metal arc welding](http://links.springernature.com/f/a/uft639MF1kLt5M0FRYUKbA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1Ny00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. S. Mahlalela, P. G. H. Pistorius |

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| [Effect of Ti, Zr, and Cu content on the microstructure and properties of 2195 Al-Li alloy weldment](http://links.springernature.com/f/a/43CwB17KZmAPb1VG1SDu1g~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3MS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. H. Wen, H. J. Jiao, L. G. Zhou, H. Cheng, S. J. Wu |

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| [Fatigue and burst tests of full-scale girth welded pipeline sections for safe operations](http://links.springernature.com/f/a/UdGWCJQkOXZ4ZYF55yRIfw~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwMS14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A. Y. Dakhel, M. Gáspár, Zs. Koncsik, J. Lukács |

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| [Probabilistic fracture mechanics approach to investigate the difference in Charpy requirements for pressure vessels](http://links.springernature.com/f/a/hHTBjJSIwMsL8QLVZVDyeQ~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5NC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yin Jin Janin, Isabel Hadley |

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| [Study on MIG-TIG hybrid brazing of galvanised thin sheet](http://links.springernature.com/f/a/j1rDGgUmaAEo2TMeddV6Cg~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0OS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. Weis, R. Grunert, S. Brumm, U. Prank |

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| [Development of in-process welding torch position control system using AI technology](http://links.springernature.com/f/a/xFQedfq3DOAkIbVDwlpbbQ~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4Ni03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. Amano, Y. Tsujimura, T. Ogawa, T. Shibata |

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| Oliver Brätz, Knuth-Michael Henkel |

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| T. Björk, A. Ahola, T. Skriko, K. Lipiäinen |

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| [Bead shape control in high-speed fillet welding using hot-wire GMA laser hybrid welding technology](http://links.springernature.com/f/a/frLOVZk4-sF_O7ZnwpZoNA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5Ni01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| K. Marumoto, H. Tamata, A. Fujinaga, T. Takahashi, H. Yamamoto, J. Choi, M. Yamamoto |

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| M. F. M. Yusof, M. M. Quazi, S. A. A. Aleem, M. Ishak, M. F. Ghazali |

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| [Effects of Ge on microstructure evolution of the Cu-based filler metal and the Cu-20Sn-10Ti-1Ga/diamond brazing mechanism](http://links.springernature.com/f/a/-plYY1897aOwc94WzG9ZKA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ2Ny13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bing Cui, Peipei Yan, Zhengwei Liu, Xue Zhang, Lei Hu, Baohong Tong, Quanbin Du |

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| [The effect of melting point depressant elements B, Si, and P in Ni-based brazing filler metals on the formation of brazed joints](http://links.springernature.com/f/a/a0ca4s39TLkEABzqzeIvOA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3MC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yubo Sun, Zhiping Wang |

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| [Application of nickel plating by galvanization on steel surface of brazed cemented carbide-maraging steel joints](http://links.springernature.com/f/a/3totw1UpLlASvOBj0mTEkA~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ2MS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| W. Tillmann, T. Ulitzka, L. Dahl, L. Wojarski, H. Ulitzka, M. Koymatli |

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| [Wide gap brazing of NIMONIC 105 superalloy using BNi-2 filler and the effect of post braze heat treatment on joint properties](http://links.springernature.com/f/a/ZlW15IMk_q9gUCnRzSzdQg~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ2MC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Reza Barazandeh, Mohammad Ammar Mofid, Mostafa Jafarzadegan, Hadi Nasiri Vatan |

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| [Pulse-pressure diffusion bonding of Ti-6Al-4 V alloy with nanostructured Cu-W multilayer film as interlayer](http://links.springernature.com/f/a/JuiJwSuhmel5MT8ei3o8Pw~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5Mi05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hong Li, Bo-jin Li, Zeng-cheng Xing, Erika Hodúlová, Yi-peng Wang, Benjamin Lehmert, Zhuo-xin Li, Wolfgang Tillmann |

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| [Analysis of solder mask roughness and stencil shape influence on void formation in solder joints](http://links.springernature.com/f/a/r6PSh_6Xw7mAlT5PBSMMag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwNS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Martin Kozak, Petr Vesely, Karel Dusek |

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| [**» Abstract**](http://links.springernature.com/f/a/r6PSh_6Xw7mAlT5PBSMMag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwNS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/r6PSh_6Xw7mAlT5PBSMMag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwNS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/-MaauxhlXV47JZ6bE0eotQ~~/AABE5gA~/RgRmHN6kP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjMtMDE1MDUtNz91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjdfNSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMwNDE1VwNzcGNCCmQipFk6ZAuFIANSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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| [Correction: Thermal influence of resistance spot welding on a nearby overmolded thermoplastic–metal joint](http://links.springernature.com/f/a/dFCVjCuUi0NgdlBx8a5kag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5OS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jan Wippermann, Gerson Meschut, Wikentij Koshukow, Alexander Liebsch, Maik Gude, Steven Minch, Björn Kolbe |

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| [**» Abstract**](http://links.springernature.com/f/a/dFCVjCuUi0NgdlBx8a5kag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5OS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/dFCVjCuUi0NgdlBx8a5kag~~/AABE5gA~/RgRmHN6kP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ5OS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N181JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MTVXA3NwY0IKZCKkWTpkC4UgA1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/zLE_5y7UG8-GkwdlCgL5cg~~/AABE5gA~/RgRmHN6kP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjMtMDE0OTktMj91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjdfNSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMwNDE1VwNzcGNCCmQipFk6ZAuFIANSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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