

. [Volume 67, Issue 11](http://links.springernature.com/f/a/3jg1N5xqo_lH4rhBO_rwaQ~~/AABE5gA~/RgRnEhqvP0SMaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjcvMTE_dXRtX3NvdXJjZT10b2MmdXRtX21lZGl1bT1lbWFpbCZ1dG1fY2FtcGFpZ249dG9jXzQwMTk0XzY3XzExJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzEwMThXA3NwY0IKZSCvlS9lVwbr7VISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)

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| [Welding Engineering at Ohio State University—75 years](http://links.springernature.com/f/a/z1jrafiZAfdAlMe3Z9qJ8g~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4Ni00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| J. C. Lippold, D. H. Phillips |

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| [Influence of surface pretreatment on porosity and microstructure of laser welding in AlSi10Mg alloys sheets fabricated by laser powder bed fusion](http://links.springernature.com/f/a/CaIGRi1aiStujYlquhPQCw~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU3OS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Can Wang, Dingyong He, Li Cui, Xingye Guo, Zhen Tan, Xu Wu |

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| [Effect of alloying elements on microstructure, wear, and corrosion behavior of Fe-based hardfacing](http://links.springernature.com/f/a/fvuP2EQX3hvYy73DMGDgPA~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4OC0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Kaushal Kishore, Kuntal Sarkar, Kanwer Singh Arora |

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| [Effect of process parameters on double pulse metal inert gas welded joints of Inconel 718 superalloy](http://links.springernature.com/f/a/WXUktsh578QgukNRYSMm_w~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU1OS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| M. Shantharaj, T. Rajasekaran, Chandan Pandey |

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| [Optimization of plasma arc welding process parameters of SAF 2507/316L dissimilar steel based on response surface method](http://links.springernature.com/f/a/19XP2dA8cTJCDFrujvWhFQ~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4NC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Xiaolong Hong, Bensheng Huang, Tianning Li, Xiaowei Wang, Yanqiu Wu, Jianneng Zheng |

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| [Influence of edge-deposited layers on mechanical and corrosion properties of laser beam welds of 15 mm thick AISI 2205 duplex stainless steel](http://links.springernature.com/f/a/xg5NNFeHw414q1-rjurxgg~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU2Ny03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Anne Straße, Andrey Gumenyuk, Michael Rethmeier |

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| [Microstructure and properties of laser-MIG hybrid welded joints for aluminum alloy extrusions with different gap sizes](http://links.springernature.com/f/a/Gs35CvJWBYmsC-7V5kCzpw~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4Ny0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Zhibin Yang, Xing Wang, Lingzhi Du |

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| [Study on pulsed wave mode laser welding of Nb-Zr-C alloy and many-objective optimization using meta-heuristic techniques](http://links.springernature.com/f/a/6tFehl-CQiCFC66ZT3yeqw~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4Mi04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Santosh Kumar Gupta, Sanjib Jaypuria, Amit Kumar Das, Dilip Kumar Pratihar, Partha Saha |

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| [Understanding the formation of “false friends” (hidden lack of fusion defects) in laser beam welding by means of high-speed synchrotron X-ray imaging](http://links.springernature.com/f/a/TIaH4DSrh_O8_Ve5uMHp3w~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4MS05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| K. Schricker, C. Diegel, L. Schmidt, M. Seibold, H. Friedmann, F. Fröhlich, S. Eichler, Y. Chen, H. Requardt, A. Rack, J. P. Bergmann |

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| [Microstructure characterization of the weld cladding of clad steel plate A516 GR.70 - AISI 904L by electroslag strip cladding using Inconel 625 strip](http://links.springernature.com/f/a/krZSs5Q34IrxiDASzTwjpg~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU3NS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Ivan Bezerra de Mello Picchi, Mathews Lima dos Santos, Thiago Henrique Bezerra de Santana, Renato Alexandre Costa de Santana, Edwar Andrés Torres López, André de Albuquerque Vicente, Tiago Felipe de Abreu Santos |

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| [Effect of microstructure on impact toughness, texture, and nano-indentation on heat-affected zones (HAZ) in a ferrite-bainite steel](http://links.springernature.com/f/a/c2THivlBUK1uoHxnO-0w3w~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU3Ni02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Devang Gandhi, Suman Patra, Pampa Ghosh |

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| [Influence of microstructure on near-threshold fatigue crack growth behavior of 18Ni maraging steel weldment](http://links.springernature.com/f/a/P2C3Issy7lYZBzDm_EY_RQ~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5MC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Haitao Zhao, Delun Guo, Qi Qin, Sujun Wu |

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| [Mechanical properties of one-sided welding for the low-temperature steel using a high-current MAG welding](http://links.springernature.com/f/a/0oH73QtpbVUieiG20RQILA~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4NS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Youngho Cho, Byungcheol Kim, Changmin Lee, Namhyun Kang |

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| [Microstructure and properties of diamond/Ni-based alloy composite coatings by induction brazing](http://links.springernature.com/f/a/I5dLCdS7FrZc8elIeHJyFg~~/AABE5gA~/RgRnEhqvP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4MC13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMDE4VwNzcGNCCmUgr5UvZVcG6-1SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Jian Qin, Mingzhu You, Hao Si, Weimin Long, Zidong Wang, Sujuan Zhong |

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