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| [Development of shielded metal arc welding electrodes to achieve carbide-free bainitic weld microstructures](http://links.springernature.com/f/a/Wq-nwzmH0hQ8mRQJ36GFFg~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk4Ny16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Sudharsanan Sundaram, G. D. Janaki Ram, Murugaiyan Amirthalingam |

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| [Effect of zinc on the fracture behavior of galvanized steel/6061 aluminum alloy by laser brazing](http://links.springernature.com/f/a/rrnOgeVtK78_1_Qym9IXOg~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5Mi0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Peilei Zhang, Haichuan Shi, Yingtao Tian, Zhishui Yu, Di Wu |

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| F. Akyel, S. Olschok, U. Reisgen |

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| [Experimental investigation on improving the deposition rate of gas metal arc-based additive manufacturing by auxiliary wire feeding method](http://links.springernature.com/f/a/7NYu-KJuMWMwhFpG06jOyg~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5NC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Qinglin Han, Jia Gao, Changle Han, Guangjun Zhang, Yongzhe Li |

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| [Influence of arc energy and filler metal composition on the microstructure in wire arc additive manufacturing of duplex stainless steels](http://links.springernature.com/f/a/hdx0Mh8QTYR5F6VNTGFRiQ~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5NS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Benjamin Wittig, Manuela Zinke, Sven Jüttner |

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| [Fiber laser welding of hot stamping steel: effect of in situ annealing on the microstructure and mechanical properties](http://links.springernature.com/f/a/wVXa61BAgPf4WFH3RA9NRg~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5Ni15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Raquel Alvim de Figueiredo Mansur, Vagner Braga, Vinicius Machado Mansur, Daolun Chen, Milton Sergio Fernandes Lima |

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| [Experimental characterization and fatigue behavior of thermally and mechanically treated 316L stainless steel MIG-welded joints](http://links.springernature.com/f/a/nqleEo2CiRTjp0pUcDB_5Q~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5Ny14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hichem Guizani, Brahim Tlili, Moez Chafra |

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| H. S. Ren, H. P. Xiong, L. Ye, X. Y. Ren, W. W. Li, R. Y. Qin |

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| [A new approach to improve the ductility of non-penetrating laser-welded lap joints of cold-rolled 301LN stainless steel](http://links.springernature.com/f/a/6uQXBo3VGLkAZwDyHTTHKg~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk5OS05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xiangzhong Guo, Wei Liu, Xiqing Li, Jiafei Fan, Zhikun Song |

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| [The behavior of TIG welding arc in a high-frequency axial magnetic field](http://links.springernature.com/f/a/o26KQw-9Zbkjo_CQ9MOUCA~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwMC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| H. Wu, Y. L. Chang, Alexandr Babkin, Boyoung Lee |

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| [Resistance spot welding with variable electrode force—development and benefit of a force profile to extend the weldability of 22MnB5+AS150](http://links.springernature.com/f/a/sQRKt0XWyzKE2bQPm8Odjw~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwMS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| M. Wohner, N. Mitzschke, S. Jüttner |

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| [Robot-assisted non-destructive testing of automotive resistance spot welds](http://links.springernature.com/f/a/qXCG_LfcWRkZq2NUp9e5Uw~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwMi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Changwook Ji, Jeong K. Na, Yoon-Seok Lee, Yeong-Do Park, Menachem Kimchi |

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| [Electrode wear in short-pulse resistance spot welding of aluminum AA 6016-T4](http://links.springernature.com/f/a/qiasQFutnZ1nMlzdbpd4Nw~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwMy0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Eric Schulz, Ahmed Mahjoubi, Matthias Wagner, Holger Schubert, Bharat Balasubramanian, Luke N. Brewer |

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| [Toughness properties at multi-layer laser beam welding of high-strength steels](http://links.springernature.com/f/a/ONw1ZUeqasNsJzQKPCFfdA~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwNC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Joerg Volpp, Pär Jonsén, Anandkumar Ramasamy, Bert Kalfsbeek |

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| Van Thao Le, Henri Paris |

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| [**» Abstract**](http://links.springernature.com/f/a/5vcAIM1_mAVr3BlVu-wNJA~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwNS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/5vcAIM1_mAVr3BlVu-wNJA~~/AABE5gA~/RgRh1r9rP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMTAwNS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NV8xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMTAxMDVXA3NwY0IKX-trOvRflpjoD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/p15M6RFE3YJF46yAjqwzkg~~/AABE5gA~/RgRh1r9rP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjAtMDEwMDUteT91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjVfMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjEwMTA1VwNzcGNCCl_razr0X5aY6A9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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