

**Welding in the World**. [Volume 68, Issue 5](https://links.springernature.com/f/a/YnvHJHPfjXzrvbtmbi3ytg~~/AABE5gA~/RgRoJaahP0SKaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjgvNT91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjhfNSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwNTE0VwNzcGNCCmYzoSFDZtprN1pSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)

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| Shahriar Afkhami, Mohsen Amraei, Vahid Javaheri, Mehran Ghafouri, Timo Björk, Antti Salminen, Xiao-Lin Zhao |

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| N. Suwannatee, M. Yamamoto, S. Shinohara |

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| Shazia Muzaffer, Kyong-Ho Chang, Mikihito Hirohata |

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| [The effect of thermomechanical welding on the microstructure and mechanical properties of S700MC steel welds](https://links.springernature.com/f/a/OK_kv55SWKp3dxDEXLiM0g~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcxMS14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Peng Wang, Felipe Martins Gomes, Fernando Gustavo Warchomicka, Wolfgang Ernst, Rudolf Vallant, Maria Cecilia Poletti, Norbert Enzinger |

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| Toai Dinh Vu, Xuan Thi Tran, Minh Ngoc Nguyen |

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| [Enhancing joint performance in friction stir welding through tailored double-butt-lap geometry](https://links.springernature.com/f/a/wBIOLIx74slKMMQnHNfzMw~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTczNy0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Uttam Acharya, Smrity Choudhury, Durjyodhan Sethi, Esther Akinlabi, Barnik Saha Roy |

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| Josef Neuhäusler, Jakob Roth, Markus Oswald, André Dürr, Klemens Rother |

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| [Evaluation of the fatigue resistance of butt-welded joints in towers of wind turbines — a comparison of experimental studies with small scale and component tests as well as numerical based approaches with local concepts](https://links.springernature.com/f/a/czXUC5FYCgfljGaVpJ67fA~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYzMC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. Glienke, F. Kalkowsky, A. F. Hobbacher, A. Holch, M. Thiele, F. Marten, R. Kersten, K.-M. Henkel |

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| [Effect of angular distortion and axial misalignment on the fatigue strength of welded and ground mild steel cruciform joints](https://links.springernature.com/f/a/f7IMy9lWVQxNfEXxLPXV5g~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2OS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Benjamin Laher, Christian Buzzi, Martin Leitner, Peter Brunnhofer |

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| [Comparison of fatigue test results of high-strength steel DED-Arc specimens with milled and unmilled surfaces](https://links.springernature.com/f/a/Dw68kAUAcF6OVQypxW6Esg~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY4Ny04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Johanna Müller, Jairan Nafar Dastgerdi, Jonas Hensel |

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| [Structural hot-spot stress approach for toe cracking from plate edge of load-carrying welded attachment](https://links.springernature.com/f/a/OPAGWsZiGueyTvN67veUbw~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcyNC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Takeshi Hanji, Kazuo Tateishi, Nima Rabsel, Masaru Shimizu |

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| [Investigations on the influence of angular and linear misalignment on the fatigue strength of HFMI-treated structural steel butt joints](https://links.springernature.com/f/a/BJ5PAoUrod6Oy7NU5690pw~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcyOC0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Benjamin Ripsch, Göran Gabriel, Andreas Gericke, Knuth-Michael Henkel |

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| [Fatigue strength of single-sided fillet welds in overlapping ultra-high-strength steel sheets](https://links.springernature.com/f/a/3q_u4ODvJVX8cUSoKqwBLg~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTczNi0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Antti Ahola, Samu Salerto, Timo Loisa, Kalle Lipiäinen, Timo Björk |

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| [Numerical investigation of high-frequency mechanical impact treatment of aluminum alloy thin sheet welded joint](https://links.springernature.com/f/a/tr92fahKGuK5spOARcdFnA~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0NC0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hai Zhang, Zhiyan He |

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| [Study on the applicability of a modified strain approach to predict the fatigue life of HFMI-treated transverse stiffeners under variable amplitude loading](https://links.springernature.com/f/a/XOnSY63SrW4t3xrWF5NrxQ~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0Ni0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Daniel Löschner, Imke Engelhardt, Thomas Nitschke-Pagel, Thomas Ummenhofer |

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| [Multi-objective optimization of laser welding parameters for steel/Al based on Kriging-MSSA](https://links.springernature.com/f/a/2FNn7RYX8ke0v4p75GMWTw~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTY4OC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhi-wei Zhu, Yong-huan Guo, Xin-ran Zhang, Xiang-ning Lu, Jun-yi Hua |

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| Wei Wang, Qingyu Jiang, Weijun Liu, Xiangcheng Ji, Fei Xing, Kai Zhang, Jia Wang |

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| Daisuke Abe, Keisuke Torigata, Hitoshi Izuno, Masahiko Demura |

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| [Search for high-creep-strength welding conditions considering HAZ shape factors for 2 1/4Cr–1Mo steel](https://links.springernature.com/f/a/daSVWfjI8huWTI8kDLi9SQ~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTcyNy0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Hitoshi Izuno, Masahiko Demura, Masayoshi Yamazaki, Satoshi Minamoto, Junya Sakurai, Kenji Nagata, Yoh-ichi Mototake, Daisuke Abe, Keisuke Torigata |

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| [A proposed multiphysics comparison of different alloy compositions for electro-thermomechanical reliability analysis](https://links.springernature.com/f/a/GUZsbipvIMgXIo-DkFWOMQ~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0My0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Sinda Ghenam, Abdelkhalak El Hami, Wajih Gafsi, Ali Akrout, Mohamed Haddar |

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| [**» Abstract**](https://links.springernature.com/f/a/GUZsbipvIMgXIo-DkFWOMQ~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0My0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](https://links.springernature.com/f/a/GUZsbipvIMgXIo-DkFWOMQ~~/AABE5gA~/RgRoJaahP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyNC0wMTc0My0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF81JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDA1MTRXA3NwY0IKZjOhIUNm2ms3WlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](https://links.springernature.com/f/a/kQVP3zZzL7vwjAoemf87PQ~~/AABE5gA~/RgRoJaahP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjQtMDE3NDMtMz91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjhfNSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwNTE0VwNzcGNCCmYzoSFDZtprN1pSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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