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| John C. Lippold, Majid Farajian, Thomas Kannengiesser, Américo Scotti, Erdmuthe Raufelder |

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| [Influence of welding thermal cycles on properties of TMCP and Q&T steels evaluated by thermo-physical simulation](https://links.springernature.com/f/a/j2UwvqlFqgZ87uI2VPuduQ~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxNS0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Martin Neumann, André Hälsig, Jonas Hensel |

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| [Evaluation of dry sliding wear behavior of thermally sprayed and microwave post-processed TiO2 reinforced tungsten carbide composite coating](https://links.springernature.com/f/a/XTkp_-X9NdnI0ONa9k2WBw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxNy0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| D. G. Pradeep, H. S. Nithin, B. N. Sharath, K. S. Madhu |

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| [Effect of welding heat input on the corrosion behaviour of high strength steel rebars](https://links.springernature.com/f/a/oOdDtIu-n7txofu67oESgA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0My15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Devang Gandhi, Anushri Nag, Ashok Kumar Perka |

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| [A critical understanding on the microstructure and creep failure of Super304H/T92 dissimilar multilayer welds](https://links.springernature.com/f/a/TEd_1npG6qasvbVmRTQ8Og~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Nandha Kumar E, Ravi Sankar Kottada, G.D. Janaki Ram |

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| [Properties oriented WAAM—microstructural and geometrical control in WAAM of low-alloy steel](https://links.springernature.com/f/a/YExiyLKO3p-IuCs6gFzI5w~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2Ni01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kai Treutler, Tobias Gehling, Maxim Scheck, Andreas Richter, Christian Bohn, Rüdiger Ehlers, Christian Rembe, Volker Wesling |

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| [Overcoming underfill defect with undermatching filler and establishing new acceptance criteria for underfill depth in laser beam welding of ultra-high strength steels](https://links.springernature.com/f/a/c4NzYkoJTeV5MMTnmXeh7w~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY3MS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yoona Lee, Sanghyeon Park, Jeongan Seon, Haksoo Han, Kwanghyeon Lee, Namhyun Kang |

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| [Investigation of creep performance degradation mechanism of service exposed P92 steel and microstructural characterization of FGHAZ](https://links.springernature.com/f/a/-CZc1zEK2dAPrYUvgaWHnA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYyNC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yong Li, Jiaqing Wang, Chengchao Du, Qihong Wang |

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| [Residual stress and creep strain analysis of Inconel 718 and stainless steel 316 welds](https://links.springernature.com/f/a/EgHyn7cSRBG9rKeiW6QYtQ~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0OC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Ravindra Giriraj Bhardwaj, Snehanshu Pal |

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| [Effect of boron addition on the GB precipitation and SRC resistance of CGHAZ in advanced bainitic heat-resistant steel](https://links.springernature.com/f/a/uKkiP4Z4L_xRU3TxW9c-rg~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2Mi05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xue Wang, Dongdong Zhang, Wei Zhang, Xianhong Lai |

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| [Comparative analysis of fatigue strength of a freight wagon frame](https://links.springernature.com/f/a/YQEPhqcWl7zZDt5IYQv_yw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU3Ny01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bruno Vega, Jesús Ángel Pérez |

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| [Life extension analysis considering crack opening-closing behavior in HFMI-treated welds](https://links.springernature.com/f/a/VPxVtvO1DBctGX_srFb58A~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU4My03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Yuki Banno, Koji Kinoshita, Zuheir Barsoum |

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| [Influence of modelling methods of a fluctuating weld geometry on the fatigue assessment using the effective notch stress approach](https://links.springernature.com/f/a/XwDDFoY8MqXnu7KLJ5pRWA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYwMy02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Tobias Pawlowitz, Berend Bohlmann, Philipp Knüppel |

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| [Factors affecting the fatigue strength of additively manufactured Ti-6Al-4V parts](https://links.springernature.com/f/a/I_B68jjGq7EoZ-Ew9E_Ttw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYwNC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Anders Rygg Johnsen, Jan Erik Petersen, Mikkel Melters Pedersen, Halid Can Yıldırım |

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| [Overload and variable amplitude load effects on the fatigue strength of welded joints](https://links.springernature.com/f/a/dnuefxC_R-TriOCe759RMw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY0Mi16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kiia Grönlund, Antti Ahola, Jani Riski, Tero Pesonen, Kalle Lipiäinen, Timo Björk |

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| [Behaviour of aluminium/steel hybrid RSW joints under high cycle fatigue loading](https://links.springernature.com/f/a/C9lfruLLkqxe_KAfHnSSmw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY2My04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Ákos Meilinger, Mariann Fodorné Cserépi, János Lukács |

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| Abhishek Ghimire, František Wald, Martin Vild, Jaroslav Kabeláč |

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| [Deformation and residual stress of T-shaped joints fabricated by laser-arc hybrid welding for steel bridge members](https://links.springernature.com/f/a/8TDEjrBxUjR4nuRzz6e9bw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1MC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Gang Chen, Mikihito Hirohata, Kengo Hyoma, Naoyuki Matsumoto, Koutarou Inose |

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| [Obituary: Prof. Dr.-Ing. Hans Hoffmeister](https://links.springernature.com/f/a/7PJGV5RDtMjp_x0fQGRJfw~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY3NS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Thomas Böllinghaus, Carl Cross |

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| [Publisher Correction: Effect of partial and global shielding on surface-driven phenomena in keyhole mode laser beam welding](https://links.springernature.com/f/a/7QYZosYgTej4_eh4UNuYSA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1OS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Leander Schmidt, Klaus Schricker, Christian Diegel, Florian Sachs, Jean Pierre Bergmann, Andrea Knauer, Henry Romanus, Herwig Requardt, Yunhui Chen, Alexander Rack |

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| [**» Abstract**](https://links.springernature.com/f/a/7QYZosYgTej4_eh4UNuYSA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1OS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](https://links.springernature.com/f/a/7QYZosYgTej4_eh4UNuYSA~~/AABE5gA~/RgRnoIVvP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTY1OS00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82OF8yJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyNDAyMDNXA3NwY0IKZbpvAL5lnOHA81ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](https://links.springernature.com/f/a/HAPj0bByUrjmogpmUlSS9w~~/AABE5gA~/RgRnoIVvP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjMtMDE2NTktND91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjhfMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjQwMjAzVwNzcGNCCmW6bwC-ZZzhwPNSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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