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| P. Rabe, U. Reisgen, A. Schiebahn |

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| Muneo Matsushita, Daiki Yamagishi, Satoshi Igi, Rinsei Ikeda |

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| Jaakko Tapiola, Jari Tuominen, Jorma Vihinen, Petri Vuoristo |

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| H. S. Nithin, K. M. Nishchitha, D. G. Pradeep, C Prasad Durga, Mahantayya Mathapati |

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| Zhou Li, Xiaobing Cao, Xiongfeng Zhou, Zhaoxi Yi, Xianshi Jia |

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| A. Takumi Ozawa, B. Hiroaki Kosuge, C. Yoshiki Mikami, D. Tomoya Kawabata |

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| [Experimental characterization of dynamic fracture toughness behavior of X80 pipeline steel welded joints for different heat inputs](http://links.springernature.com/f/a/vvsenk1cwgO0OkxYGxBNgA~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5MS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Mayur P. Singh, Kanwer Singh Arora, Ankit Gupta, Rajneesh Kumar, Dinesh Kumar Shukla, Pranav Jhunjhunwala |

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| [Experimental study of mechanical properties and fracture modes in different regions of the nickel-based welding joint based on small punch test](http://links.springernature.com/f/a/tKwS0wRYhm2tfFeD8UQIBw~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1MS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xiangxuan Geng, Jian Peng, Liangxiong Jiang, Xuedong Liu, Yi Tu, Zhichao Xue |

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| [Fatigue strength of shot-peened welded joints of steel bridges](http://links.springernature.com/f/a/xGuGRIksT8L4jbGVsN1UQQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwMC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Koji Kinoshita, Kiyoaki Sugawa, Yuki Banno, Yuki Ono, Shohei Yamada, Seiji Kameyama |

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| [Influence of the geometry on the fatigue strength of welded joints using the effective notch stress approach](http://links.springernature.com/f/a/wrmKQBYWT_Mp_c4flMK4aw~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwOS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Sven Lippardt |

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| [Sequence effects on the life estimation of thin-walled welded tubular structures made of HSS + UHSS under bending](http://links.springernature.com/f/a/fY6MThzW0lM5jDSQG2CY1g~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzMi16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Josef Neuhäusler, Jakob Roth, Markus Oswald, André Dürr, Klemens Rother |

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| [Fatigue performance of thick 6061-T6 aluminum friction stir welded joints with misalignment or channel defects](http://links.springernature.com/f/a/gDhumIK8wzZc_X7Ptr_cnA~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzMC0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A. Fleury, R. Ranjan, L. H. Shah, L. St-Georges, A. Rahem, S. Walbridge, A. Gerlich |

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| [Fatigue life improvement of similar and dissimilar aluminum friction stir welds by deep rolling](http://links.springernature.com/f/a/u4L16tKQpQU-i2MrZWim7A~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1NS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jan Schubnell, Antonia Müller, Ralf Boywitt, Oliver Maiß, Majid Farajian |

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| [Fatigue strength improvement method for thin sheet GMA welding joints by weaving](http://links.springernature.com/f/a/lznqiSpoka-RlKGydkTPSQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4MC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kazuki Matsuda, Yoshinari Ishida, Shinji Kodama |

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| [Study on prediction of tensile-shear strength of weld spot based on an improved neural network algorithm](http://links.springernature.com/f/a/MS1dFnlbYAlEssGUg6pXOA~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwNi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Wu Gang, Chen Tian, Zhang Dongdong |

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| [Experimental investigation on residual stress distribution in an austenitic stainless steel weld overlay pipe after local ultrasonic impact treatment](http://links.springernature.com/f/a/1HLgVliEPLgN14ys5ur4nw~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0NC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Chuan Liu, Yuefeng Chen, Hui Xiao, Kai Wang, ShuangWang, Weihua Liu |

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| [Influence mechanism of laser power on hybrid laser-MAG welding undercut defect](http://links.springernature.com/f/a/XPBixdGAD1Lw9-2MXALvEw~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyMy0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Luyu Li, Ziyi Luo, Yaoyong Yi, Yongjun Hu |

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| [Controlling root penetration in electron beam welding by a through-current feedback](http://links.springernature.com/f/a/VD8bM-EusbY6C6v85PMd_w~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzOS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Miikka Karhu, Veli Kujanpää |

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| [Thermal influence of resistance spot welding on a nearby overmolded thermoplastic–metal joint](http://links.springernature.com/f/a/AALjZUJ7lln-yeENI_LQyA~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ2NS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jan Wippermann, Gerson Meschut, Wikentji Koschukow, Alexander Liebsch, Maik Gude, Steven Minch, Björn Kolbe |

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| [Ferrite fraction in duplex stainless steel welded with a novel plasma arc torch](http://links.springernature.com/f/a/RUA0rwh4kkMR_4mxsUJEYQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Klara Trydell, Kjell-Arne Persson, Nuria Fuertes, Erwan Siewert, Nakhleh Hussary, Michael Pfreuntner, Per Bengtsson, Paul Janiak, Ravi Vishnu, Mette Frodigh |

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| [**» Abstract**](http://links.springernature.com/f/a/RUA0rwh4kkMR_4mxsUJEYQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/RUA0rwh4kkMR_4mxsUJEYQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/tCjyZEiOa3mrnB3v6WMOQA~~/AABE5gA~/RgRlwOYwP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjItMDE0NDctNj91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjdfMyZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMwMjA0VwNzcGNCCmPTMGHeY3WMpGhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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| [Corrosion resistance of austenitic stainless steel welds with no-backing gas](http://links.springernature.com/f/a/BWxOFWqm1wZxpY6wlFgarQ~~/AABE5gA~/RgRlwOYwP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0Mi14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18zJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAyMDRXA3NwY0IKY9MwYd5jdYykaFISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jeremy McNicol, Badri Narayanan, Narasi Sridhar, Carolin Fink |

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