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| [Magnetically impelled arc butt welding (MIAB): a comprehensive review on welding parameters, microstructure, and joint performance](http://links.springernature.com/f/a/1YGuSwUKFjZjaaZ9WyPRSw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5OC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| S. Santhosh Kumar, S. Ramesh Kumar |

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| [Influence of process parameters on microstructure and mechanical properties of friction stir welded P91 industry grade steel pipes](http://links.springernature.com/f/a/sNGUzT6IbBMIpk96PLzPog~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5My01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Suresh Gain, Suman Kalyan Das, Dipankar Sanyal, Sanjib Kumar Acharyya |

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| [Numerical simulation of rotary friction welding of Ti-6Al-4V tubes](http://links.springernature.com/f/a/9uW2yK323LNY6XN1PV4vZw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5Ny0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yaxin Xu, Wenxue Chen, Wenya Li, Xiawei Yang |

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| [Metallurgical and mechanical study of the effect of FSW parameters on dissimilar joining of St37 and AZ31](http://links.springernature.com/f/a/-nQmR3c-mOaI_Iq75_Hjjw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYwMi03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Ali Ebrahimpour, Amin Shakoori, Tohid Saeid |

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| [Increase of electrode life in resistance spot welding of aluminum alloys by the combination of surface patterning and thin-film diffusion barriers](http://links.springernature.com/f/a/LCpcB9T7oXNxOUXh6cFMgw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxNC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| S. Brechelt, H. Wiche, J. Junge, R. Gustus, H. Schmidt, V. Wesling |

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| Zhao Lun, Wang Shicheng, Li Jiguang, Zeshan Abbas, Xiao Gang |

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| [Studies on the effect of process parameter on corrosion behaviour of electron beam welded Ti-based alloy (Ti6Al4V)](http://links.springernature.com/f/a/ZW0MSBl-zRvvBsJFw-uXGg~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5OS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Jeetendra Kumar Singh, Gour Gopal Roy, Jyotsna Dutta Majumdar |

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| Kevin Hoefer, Mario Kusch, Jonas Hensel |

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| [Technology for manufacture of all-welded deployable shell structures for space purposes](http://links.springernature.com/f/a/EzLxCBZmBZ0ijY82bU06oQ~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5Mi02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yaroslav Borovyk, Leonid Lobanov, Valentin Volkov |

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| [Prediction of BGA solder joint array shape using improved Perzyna model and Anand model](http://links.springernature.com/f/a/3YvqrBrOCJsY9NApi2NdSQ~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5Ni0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Junxiong Fang, Linjie Ran, Wei Huang, Kailin Pan, Yubing Gong |

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| [Ultimate tensile capacity of hot-dip galvanized ultra-high-strength steel cut edges and welded joints](http://links.springernature.com/f/a/UwE0T3DENT-15KGohMI2Cg~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxMS02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Kalle Lipiäinen, Antti Ahola, Vahid Javaheri, Timo Björk |

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| [Mechanical properties of MAG butt welded dissimilar structural steel joints with varying strength from grade S355 up to S960](http://links.springernature.com/f/a/i-vrrrPbXpKKnsS4SHvwQg~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYwMC05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Oliver Brätz, Mareike von Arnim, Stefan Eichler, Andreas Gericke, Jörg Hildebrand, Jean Pierre Bergmann, Ulrike Kuhlmann, Knuth-Michael Henkel |

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| [Numerical analysis of the brittle strength of welded pipelines with corrosion metal loss in the transportation of blends of natural gas with hydrogen](http://links.springernature.com/f/a/tGqtq75UmtSoJpTWWWMmlw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxMi01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Alexey Milenin, Elena Velikoivanenko, Galina Rozynka, Nina Pivtorak |

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| [The short- and long-term properties of welded high-temperature-resistant thermoplastics](http://links.springernature.com/f/a/P7g73hosC_Fm5FkFL_OPcQ~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTU5NS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Sascha Vogtschmidt, Volker Schoeppner |

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| [Joining performance and thermal mechanism of stainless steel/GFRP bonding joints via single-side resistance spot welding process](http://links.springernature.com/f/a/OBq5TOtunyNrmlWlghvArw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYwNy0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Shijia Wang, Caiwang Tan, Jianhui Su, Hao Zhang, Laijun Wu, Bo Chen, Xiaoguo Song |

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| [Characterization of additively manufactured parts for direct screwing](http://links.springernature.com/f/a/L_zS3J4Dn1XQXeMSqrZ1Vw~~/AABE5gA~/RgRnKIoxP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTYxMC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xMiZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMxMTA0VwNzcGNCCmVFMQVGZcogYqBSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| E. Moritzer, C. Held |

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