

**Welding in the World. Volume 67, Issue 1**

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| [Experimental study of measures preventing welders from fume exposure](http://links.springernature.com/f/a/zdCEfEuPGfLtbysUnARQYg~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5NS0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. A. Egerland, M. Wiesinger, R. Sharma, B. Ebert |

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| [Reduction of Cr6+ formation in the stellite hardfacing operation by a novel thin film of zinc coating on a stellite filler rod](http://links.springernature.com/f/a/SAwdn-gUQTgXSAT4db0hRA~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwOC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. K. Raajesh Kannan, S. P. Sivapirakasam, Sreejith Mohan, M. Rahul, B.R.Vishnu |

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| [Analytical estimation of thermomechanical distortion and interface layer thickness for gas metal arc lap joining of dissimilar sheets](http://links.springernature.com/f/a/eUl3J3FBK1QnQA4ZQLF_Gw~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyNi14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Atanu Das, Prashant K. Chaurasia, Gopi K. Mandal, Sven F. Goecke, Amitava De |

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| [Grain growth and precipitation behaviour of AISI 430 ferritic stainless steel subjected to pulsed laser beam welding using free-form pulse shaping](http://links.springernature.com/f/a/0p0SV78myvg7laYw2jK_OA~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5OC15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| N. Sommer, F. Stredak, M. Wiegand, S. Böhm |

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| [Experimental and numerical investigation of residual stress and post-weld-shift of coaxial laser diodes during the optoelectronic packaging process](http://links.springernature.com/f/a/JIH4ZKU5ksYMmtVau9PeLw~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwNC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Ziyang Wang, Haibo Zhou, Wangwang Zhou, Zhiqiang Li, Xia Ju, Yichang Peng, Ji’an Duan |

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| Michael Wiegand, Linda Marks, Niklas Sommer, Stefan Böhm |

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| Michael Clemens, Lucas Warnecke, Simon Olschok, Uwe Reisgen, Max Fabian Steiner |

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| Keisuke Takenaka, Yuji Sato, Shumpei Fujio, Keisuke Nishida, Rika Ito, Eiji Hori, Susumu Kato, Masaya Suwa, Shingo Uno, Koji Tojo, Masahiro Tsukamoto |

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| [Distortion simulation of gas metal arc welding (GMAW) processes for automotive body assembly](http://links.springernature.com/f/a/qcBTFz7yuA2XS7fah6I1Zg~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM2OS0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Wayne Cai, Miguel Saez, Patrick Spicer, Debejyo Chakraborty, Richard Skurkis, Blair Carlson, Fernando Okigami, Jeff Robertson |

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| [Effect of electromagnetic stirring on microstructure formation in 12%Ni steel ESW weld metal](http://links.springernature.com/f/a/R2iZhIpY0ZknZLnnECkbpQ~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyMC0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Takanori Ito, Osamu Ozaki, Tomohiro Nishimura, Hiroshi Hashimoto, Hidenori Nako, Keito Ishizaki |

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| [Predicting the quantity and type of intermetallic phases in aluminum–steel dissimilar joints produced by zinc interlayer](http://links.springernature.com/f/a/0FX0DnrX7YRh84d21-hfig~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM4OC0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Emad Cheraghi Rizi, Eslam Ranjbarnodeh, Seyyed Ehsan Mirsalehi |

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| [Microstructure and corrosion resistance of friction stir–welded AZ61A/AZ40M Mg-alloy dissimilar joint](http://links.springernature.com/f/a/ArBpnTO3aAvLwsXSudktOg~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5My0zP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Peishan Zhou, Liang Wang, Hangwei Tang, Chengwu Cui, Ming Xu, Deng Wu |

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| [Hydrogen effect on mechanical properties and cracking of creep-resistant 9% Cr P92 steel and P91 weld metal](http://links.springernature.com/f/a/7LqgX5F71SEJf4-Fbpqs9A~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQxMC01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Michael Rhode, Jonathan Nietzke, Tim Richter, Tobias Mente, Peter Mayr, Alexander Nitsche |

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| [Investigations on the microstructure of drawn arc stud welds on structural steels by quantitative metallography](http://links.springernature.com/f/a/wZlqcksPM08gKhrPAq8VOw~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQxNy15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Oliver Brätz, Knuth-Michael Henkel |

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| [Keyhole TIG welding of newly developed nickel-based superalloy VDM Alloy 780](http://links.springernature.com/f/a/8RxLWv2tj38XKKsjmyTzxw~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyNS15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Achmad Ariaseta, Nima Sadeghinia, Joel Andersson, Olanrewaju Ojo |

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| [Hardness prediction for sub-critically and inter-critically reheated HAZs of low alloy steels](http://links.springernature.com/f/a/vn7Z_6vySHgdP2XSgm7ZFw~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzNC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| T. Kasuya, M. Inomoto, Y. Okazaki, S. Aihara, M. Enoki |

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| [Effect of welding heat input on microstructural evolution and impact toughness of the simulated coarse-grained heat-affected zone of Q960 steel](http://links.springernature.com/f/a/f6uzat9MqEQYF2Ef-tiO3Q~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQxMy0yP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Bing Cui, Zhengwei Liu, Zheng Liu, Mengdu Peng, Mengyang Shi, Quanbin Du, Junqiang Cong |

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| [Recognition of GTAW weld penetration based on the lightweight model and transfer learning](http://links.springernature.com/f/a/UHrWRCQwZ-vOAzrVGwCZzA~~/AABE5gA~/RgRln-MJP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5Ni0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N18xJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzAxMTBXA3NwY0IKY7UJXr1j6lGMD1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Zhenmin Wang, Liuyi Li, Haoyu Chen, Sanbao Lin, Jianwen Wu, Tao Ding, Jiyu Tian, Mengjia Xu |

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