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| **New Issue Alert** | 8 October 2025 |

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| Dear Reader, |
| We are pleased to deliver your requested table of contents alert for **Welding in the World**. [Volume 69, Issue 11](https://links.springernature.com/f/a/aeFgQkOKugqrd_reE_FFTw~~/AABE5hA~/IpgAprEkLzVzXKRgdLAGGmqUBaGkfL05CYO4po6u6rqMl1mIsBHO_M6RBXfDpTbims8DUOhawcMOR5yjCfx_hXyf8rcVFevywQm63EK85ZBZv5pvKFBmKgMCTlfGj5JBpUOzUaoyrRsQ-Mgtx42YGpicvvTSbZewf-RfuO5SzuviwIMXWlt0SKFAHd5BM8f57ZhuWwyjQ8_S_tEn---ghUYvjkN2qQSuOJ8U7-zy3Eo3BlOszpSoUwCkHTxWWWr-IouhD7lk8dTNtKxQfo5F1cSlmds3u_3gk3pocSAmILWO1e4CQkb5So7fY-PVmnwVvXgIGfrRLctwhuBvWnylIw~~) is now available online. |
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| Image: Welding in the World cover |

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| [Role of composition in aging additively manufactured precipitation hardening stainless steels](https://links.springernature.com/f/a/nv80-_z7X57LzB0iPY0pYQ~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amK40FfQfyrXQFHrKfnaRFcmAi_HBVM5amYITTsIbF2B8i66y4QWYnPtrXAPde20QQf1ehaPcdgof2_nUX2DgSLVibTSs6HGPbVmwhLVqlQyxncYqU8aW5oubeA3fYHk8TAT3O6WxFtHW6MbPKanlGabUt9HK24JTHrv46sXLUAm3jMh8-ujSK86-20aOkPZUX7s3FDcXqf1R7Df4vR3a6F06Pq8NtXHwZW8_XsdxRtP-1kjkzRt1cAc1NQEp4IDfOA~~) |
| Derek J. Shaffer |

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| Erhu Li, Li Cui, Wei Shao, Yi Xu, Jinman Yu, Dingyong He |

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| [Influence of energy input and interpass temperature on the mechanical properties of DED-arc manufactured 316L stainless steel](https://links.springernature.com/f/a/XJg4NLRg9OrqOLf3TpSoHw~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amNH1pmUYgQcLDcrQDYGDG7PUFXg4kFRPb7wT1ulpJKoc10Dl1bX-UuU9W31avou_x3Bj3oRDijPCKKAS5tVIeCg8oXGn90X9FZXqknkJpOhFD2iAePPRb-6j9UkoCMv4KvUpVgblmAdX61oIiCgBnzqnrwmXwH11FvflZHBYdo3teSH307HP7iNH7QHEf29Mot8g6CilT3UsH8lIQRXuWxunTvOM6WejYVDo-87EwCTu-uuQD6U-z2m85z7OonWWLg~~) |
| Markus Köhler, Ardeshir Sarmast, Jan Schubnell, Klaus Dilger |

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| [Influence of process parameters on microstructure and mechanical properties of ER 4043 Al-5Si alloys fabricated by wire arc additive manufacturing](https://links.springernature.com/f/a/XH3Zi_gKLvP_KKWAck_3wg~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amPV35BrR5QjZUKf20cFpTpGIDo5gAEOUuwkAiyJFpaA5Arqva1c3XTLpPsxdaIat5DUqRqRfXzT2jPGM8TIyFCs4q_OcwT71wBSgnwvWzXuFFZsWCeLHdRHjOX1AH1NOONk4fa3MWJAVQgFHbDNBR7Wwoc9DmbfdhgOVd6vD95YDKKLimsEcGFHMaoNycWXo4LKFyDWUyISH3Y_0C5CHbIzIZgU9y6r9W5iE-4h19blyD8OLJLgnuhOm5v32US3Fcw~~) |
| Yongxing Li, Dongyu Liu, Yansong Huang, Zeyu Yang, Xin Shang |

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| [Preparation and heat treatment of Q345B high-strength low-alloy steel fabricated by laser powder bed fusion](https://links.springernature.com/f/a/SrPEK8ZXItHzyE0kv02Ulw~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amIZkBr5H85s7F1yKRYPJUrTcGuqUPliV_EXvr9CIoGC8goS--83H3KRSD_wlQTmfmGxkYqlk9ZFdixO2MkijNiQFAld1UPTWVrxp3q1rK8UlIoGX2pN3l26xrgpawJgM6jvXsxyNV_OIeHXvKZ97fvjkOxgVkQIimvqXKTl_wV_dStE9NgS6FK_xMjAHV-b_3bEohVfcwtS5uqfn4t3E7uHsxCXxC7BJ7tc_rNOFMpfn7jWKyaCRP_ldH6-t8mV33w~~) |
| Zihan Zhao, Guanglong Ren, Peng Qi, Jialong Li, Lilan Huang, Hui Li, Yongzhao Hou, Zhichao Dong, Lijuan Zhang |

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| [Production of the Ti-Zr–Nb biomedical alloy powder and its application in the metal cored wire for DED-Arc-M process](https://links.springernature.com/f/a/-MeGg31NzYZcmZiB42VXVg~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amDROQrTeZV6L8QYj5ch6ZAYaApcN2AyLCjrxUCagrVlSDrSwx9vD5C8C5GlO66vrydkFzpqiuTMPk0Q8jWHB6oBzbs3UNjAnf4p6eTtrp5-0SoUI2BCLd5zhelmWtVlRs5ieojZwhUsJR9mwhyNCvWuIlBdxL9Y297DKyE7_f1ZeyORi44d1OeV83HFscDL5eNDvtGZ-3NMxj3X6r6WJQiqkRWNG1AV28OxdOrD9pEy3dZ-xLM9knGRJOgq-G0klng~~) |
| Serhiy Schwab, Roman Selin, Mykhailo Voron, Taras Yanko, Maksym Khokhlov |

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| [Friction stir processing of Cu-W composites: effects of pre-strain and traverse speed on microstructure and functional behavior](https://links.springernature.com/f/a/9hOInnth8d6zDMipaUXzqw~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amNbTFujI6xLxyMNgaL3697pkzFyo6ajXy0jE8BsvQtFo5dQEHEJZyRYKZLKtg2GLV0jSYC67A9KjenuZXm1_61ySUxbecNNqj5EneCvo9c-JmdOyBmP2mvdAve-jjt4epfIvlE0CoJC7cyD2JMP88NVM-lWwkWBW4EarDu3j-U_e7XCFAiIT76sPLdWooMAQH2DHitkStE5KtuDWElcy6SBSc4S2KiRdYoxxaLBS3YtasonDbEp7qjCh1cEAJj7PKw~~) |
| Masoomeh Oliaei, Roohollah Jamaati, Hamed Jamshidi Aval |

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| [Thermo-Mechanical Modeling and Experimental Validation of Residual Stresses in ER70S-6 Component Manufactured by WAAM Process](https://links.springernature.com/f/a/XNgxdCRhI4zMQUP9ZxJyTQ~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amPKqJ5HRC6BQhibpzExBq09sNfTpWaxMyJYdACoXBRhXdCRKPnwTwcTY_KjYGDgl6MwKTq_H6XvSrmfbhort0sYRoV01Qe_qdVRBbyQCqNZSXYGqultkzmF_1EFS-gMDluzCHyL9fBlFc7w-fMbC4XtcSAzsVtvkK4958yhu0MQVIY-N_otYCLQOoGeJstbS7HFhfaUCXV-EaCLTDQBAuSAZ6NdFASPJ6XlVpOmwnI4c05uIHH7Bo1a6jqbTtT3_Kw~~) |
| Deepak Kumar Gupta, Rahul S. Mulik |

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| [Surface flatness measurement of large-size weld beads based on the machine vision system and deep learning technology](https://links.springernature.com/f/a/e8BNiczx2vlp9zajAXgqUg~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amLBAafkL82Z1IFP-8XZ3VEbLBr1DXDW2dJSXJDQ7oTvQOBbryHZ-317mZsVk50LrNimlpQUXWjZoQkF12DXN8jtgy7vXNIFRR35nihRPwgckURf_26eNRbmR2-ERtaRisLjvUs367D8pvdNKO4sNlV-nhJAhzJ11va9WaOV-HAWuIVqyBekrj3rJ8wsPMZkBpiXx8zamyf4dJlqnuQDeMALfT6mGDowyDH706ai6XCAeH1EKYb33Vdo5E2aBnkvWfA~~) |
| Mengsi Zhang, Guofu Lian, Xianfeng Gao, Lei Wang, Bin Luo |

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| [Design of experiments approach in directed energy deposition-arc with metals: optimization in pressure tank production](https://links.springernature.com/f/a/oz9st1WK3xbWZxKCcoYoHA~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amFfvzgWFdw79VL-f1U159sWq_RBWhq3nMUcm9CqkjzbTcxTyMBjT0_w9h9bOWi43_IAB7vyEfdaYifxBbDO40zGNik5VY36k_EIcPNKPYXpXfcZntYOs7DAU6YZw4boBIupzugKG4-F-eyRHelJagfjlURwdeJ93vaZ9-BDXHqZ5yB7tOTZ-zUfgd1I3vqS4Z7W6bbTL28w8p8peYZUuUL-M0jh0Ne1udU97ilz8vXgSPBnLtHLU5l5Fo_IOYlfJjQ~~) |
| Tansu Göynük, Yiğit Hergül, Gökhan Can, Murat Yücel, Ulas Yaman |

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| [Grain-boundary refinement in wire-arc directed energy deposition of duplex stainless steel via in-process ultrasonic vibration](https://links.springernature.com/f/a/uc3f0wdoy6QmLY_AnA_7dw~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amHsdvbk6icGZIFygroPpJr_4f6Gz3YxRKF64IwWDiCGO3wDfoD6PzeUCdxRs_VXutpBSoayJKOlFgmlnYgEUfJNwEQF0Mz93YjFw2aP0WWlcbq9c3D-f4yBJCykl-Cif1cyqp8A8xjs39Ll8ir-jQRhYW-esLnpPVWWAjZgs4TwYc6NkUt9bulYnqs99hF78hzTOVJRyjYDByDKqVqFfBZSKSTY23e_VL_aIufYNLhbeBifVlOvjbsgZ1JX6YnGoNg~~) |
| Antoine Queguineur, Olli Wiikinkoski, Mohammad Hallaji, Gaurav Mohanty, Jean-Yves Hascoët, Iñigo Flores Ituarte |

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| [A comprehensive review of laser marking: an in-depth exploration of processes, methods, parameters, materials, and applications](https://links.springernature.com/f/a/mDL052zqvXf2qn2i4O2woQ~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amKcMfF5kXJZ0fjL3rqBAeMPM1dEIf094YyexM_TTpZt7dOhvwE9mkqRVZ6xDH3Ui6_S9K_Vb8GyaT9j1hA38Jq2myItyYMx4Kp0-N-SV1PVgbXZuL83ciHpjmj88iK97YMdWCvYl2EG5YNw9Glw_HHnBo-UFkBEEPU0remz-tgdQ_QIJ5VXKxED2GG9CkOdbiN_4CJ7iR5q73_8xXNh7PZRz_2Ke94L2PuvEqnglI2Iq1x-U0ULK127O5OqHf-TTJQ~~) |
| Parisa Khatami, Seyedeh Fatemeh Nabavi, Anooshiravan Farshidianfar |

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| [A novel numerical simulation model for a new EB-DED additive manufacturing method: influence mechanism of the interaction between fixture and workpiece](https://links.springernature.com/f/a/xDmMYvotppdtpNY8hbCDdQ~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amKWWxjTcEPkAOOVZtcFbmXRaaEUIlw7SV4AOS7r7Y5bJzjDA2jifbGrhkQ3n0pRjSq13tWbcwsRmD1C7SIh6hQmMxVEYp3MI9hM2jBM1BMFaIbp1I9ITryw9PR4NIVUjiTzh6WEWS2vTdhuL8f21uhotnl00q391vDm1B3lbvML3ZQXRXcFq5KrhkAHltE3Nm5VAFxXrMvdnQhwRXmEPo53YsT7JFRLtX26ksTFmFu0wfMFylkTOYsZuaHJ3tThIFA~~) |
| Xi Shu, Guoqing Chen, Chunyu Wang, Long Wan, Chunju Wang, Lining Sun |

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| [Effect of the process parameters on deposition quality of Ti6Al4V titanium alloy by powder-feed underwater laser metal deposition](https://links.springernature.com/f/a/992-PJoFi-LXc96nKhA2tg~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amNh5o3GMfkPsnWcDbLHmtQ0U6Xts6283tjI1TQ231xztgqELmTiFkoRp1IAqRwfCD3PiRo1fPUVhRIOTBrVnJujlI-yPg6FRuJG6aBF8kQY6apnAA5P8bYEVY5ajxP7OPEiRKRJZ0mcN6bpLwteMDBAdolrOVRZyYtLIunhyZUCvi7-hwx9g-OgOzGI9QSpDGdTpwb32zCysBg0RxfkMsiuS57n-alDxe4dTfeDPyUHbK5DyDBRAJgOxqPQb9yNTDA~~) |
| Xiaofeng Wan, Jiaqi Li, Jinchao Zhang, Tuo Shi, Qingqing Zhu, Mingfu Shu, Yuhang Sun, Qingsong Ding |

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| [Fabrication of FGM structure with gradation of stainless steel and low carbon steel using twin wire arc additive manufacturing](https://links.springernature.com/f/a/_OydPK_LdXn-L2PbZtb6qA~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amFdASFxljSWJlL7wCPDN3L11G467MYrPEn_vfU8ZrkGjVxyj1Im3esLzhjI3Y4NY65eUehbyTCdwnKhtuE3Ik0jn61DJ4KaujwLwMfNR-oDbSmo-QNnyQpc8TQ6vh0lkrXlc-4lM7l7dnFitgCNfkjnJBsIz-DLkCrhX5yfhbwSC-CDCv4t1BC6Tsq-P8oKLtOcCgxCIubHK2R0YdfdQj2CDFnJFc8GlPoIKPjwNHbucabedPvQbZp-hBuHPS3FfDg~~) |
| Md Sajid Hussain, Kumari Bimla Mardi, Amitava Mandal |

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| [A study on mechanical behavior and microstructural properties of AZ31 magnesium alloy according to fiber laser welding conditions](https://links.springernature.com/f/a/wOU4aTw_Mqi3q4X5zMqsrw~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amLq6KKtu8EMDUL8UilAAZhpQhyCJNi62r_LhKTi-KNDCaV9Yqbj_Eqxey4Oi63i2qr_E4ElMfFlC2e8wIPhf99F53cj_JbWIg7v3MJidD-EzHOmrGcODnn9lmnUuyuzmyaoptJORpH-zVEeMpASgDro7uW4gu91PUyt66Bm5ywoZtBxFyyifE7Xqt5qfzU0KRUfU1b5ihx4tqLk-I-R_6doT-HUNPwF-jkfUQfX17HuJUt9BGWAUNmYReKhVf0a1Uw~~) |
| Eulyong Ha, Myungsu Yi, Kwang-San Chun, Younghyun Kim, Jeong-Hwan Kim, Jaewoong Kim |

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| [Electron beam welding of 2205 duplex stainless steel for safety critical components](https://links.springernature.com/f/a/IOtssvv0E0ixPd0H-H5SvA~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amCZvf7e3ungnApPGK4TcTfc5NZzDNm5-HQuXljr-jPSZ8kZJh6CzNs213E8KxzDVNoeAy1oyhL8CVq_Kiv1AFl1YT536sVaMrH2hLzpx9RxPYGca9nT8eYfdOQPQm-98tpyB1-vM1yoiDkj-bcIcnyNWCgp3l1N_LWXDIckSYBn5VYCZCZskbiey9txhiC22oMjRd7l-sMljx043lVj2fmMB9dupNPF-3HoIUGQOuysSImvnF6fiCChqK_9Mx11jLg~~) |
| Derek Holiver, Briony Holmes, Chris Punshon, Shaun Smart, Elliott Broughton |

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| [Melt pool morphology, microstructure evolution, and mechanical properties of dissimilar aluminum alloy butt laser welding joints under different heat input](https://links.springernature.com/f/a/EKG-12R5EOtMrZKP9wUBgQ~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amJXHx4oFjFAnxdwhBhsGBojhgxtwVZ6FjKODJ0yJRAnvfObEsK4tRIJR0SGZ9V8Kle3NaQecpgFzy9QGH_bC08CHqpMFxkWz-x1bMCa7QiMrAQG8_N-hjCf7tG8QyfRYGTzvXV3RXVk6084w6ngxqndV-MSRSVdeAdeEF-oofihhz4-8zY24b8W0NT6ipzQlIw3qvZqm9V75tRMKsf5iA5g7Na4_CQD2DO5HyWad9a7nSHui-78YOrYlyd_USNp5aQ~~) |
| Shuwan Cui, Ganli Mo, Hongchen Li, Xiaozhen Liu, Chengyu Yang |

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| Shengzhe Jin, Jinhan Chen, Tinglian Zhang, Qi Liu, Fan Wu, Wei Chen |

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| [Investigating numerically and experimentally the effect of martensite start temperature on the residual stresses and distortion in laser beam welded T-joints](https://links.springernature.com/f/a/mPLv-V7EiDYeU8l0M_32XA~~/AABE5hA~/IBH7XbfzSu3RuXuHEUO6fX1PdZ1tD1uQY0md5UP46XOS9Zkwa-u4-JEqaalzUj5L8yuRkhXhD221zBFuhh3amKybb6y1Oooz7LQ-av1bmLDq8DWJxrrEoCKQwBFOLJfdvMk5haRZLI6yABuqxQd_C13xzYHw2VDnDGVc0kZZZgKw9TZvy5lWQ5MQtjKKCPPKnDjgnvjyZJST2q74vor_8M5yn-bLAY71na6PlSOS8-bOucWfZyFYBb752hSp_hOGmGBF5waPrmi7t-ZqZmT10c0BBKS8jJ68iJbyAeAswUN1TZ0och9oKjL8yxynogfy7zUC_ihNwg3nEgE8Kr-emw~~) |
| Karthik Ravi Krishna Murthy, Maximilian Gamerdinger, Simon Olschok, Uwe Reisgen |

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