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| [Influence of brazing process and gap size on the fatigue strength of shear and peel specimen](http://links.springernature.com/f/a/gp952bg-HxKUOLHKYngBWw~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMwNC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| A. Jöckel, J. Baumgartner, W. Tillmann, J. Bültena, K. Bobzin, H. Heinemann, J. Hebing, M. Erck |

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| [Investigation of microstructure and mechanical behavior of AISI420/ BNi-2 brazed joints under impact loading at high strain rates with the split Hopkinson bar](http://links.springernature.com/f/a/RSJ8R70S3F_ioy6AWqLxjQ~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMyNS0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Meysam Nouri Niyaraki, Mohammad Damghani Nouri |

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| [Influence of Ge content on the interfacial characteristics and wear resistance of brazed synthetic diamond grains of Cu-based composite filler](http://links.springernature.com/f/a/oX8jqaprQiRjc2hRyp82fQ~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMyOC15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Bing Cui, Peipei Yan, Weixing Zhao, Ruzhong Zuo, Lei Zhang, Zhan Cheng, Yongtao Jiu, Jian Qin, Yucan Fu, Dong Xu |

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| [Microstructural, mechanical, and fractographical study of Ti–CP brazing with low melting point Ti-based filler](http://links.springernature.com/f/a/7musziatjf3R_bA-Eje_Lg~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMyNy16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yongjuan Jing, FengXin Jin, Yonglai Shang, Yaoyong Cheng, Yuanwei Zhang |

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| [Evaluation of mechanical properties and vacuum brazing for TiAl/GH3536 hetero-honeycomb sandwich ultrathin-walled structure](http://links.springernature.com/f/a/f0tKayUtCRqXzfY1vefLeg~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMxOS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Yun Luo, Xiaoguo Song, Shengpeng Hu, Wei Fu, Xu Chen, Jian Cao |

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| [Microstructure evolution and mechanical properties of ultrasonically soldered 7075 Al alloy joint with metal foam/Sn composite solder](http://links.springernature.com/f/a/lKKNF1qBCf7KsPO0y51H0w~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMzNy14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Dan Li, Huaqiang Fu, Ling Wang, Chao Wan, Shan Li, Zhipeng Song, Jian Zhang, Yong Xiao |

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| [Application of deep neural network in fatigue lifetime estimation of solder joint in electronic devices under vibration loading](http://links.springernature.com/f/a/ugsEdpQYHe5bjzHLUuPckg~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM0OS03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Anas A. Salameh, Hossein Hosseinalibeiki, Sami Sajjadifar |

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| [Vacuum brazing of copper and SS316L using Ni–P eutectic alloy filler for nuclear applications](http://links.springernature.com/f/a/uk5UTcr6wDsKbf0RirAE4A~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM3NC02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| E. Vetrivendan, Paulson Varghese, R. Krishnan, Tom Mathews, S. Ningshen |

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| [Reduced pressure laser weld comparison to electron beam welds in Ti-6Al-4 V](http://links.springernature.com/f/a/5qcq2brXxY2PFlM5T4qn7A~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM1Ni04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| J. W. Elmer, J. Vaja, Gordon Gibbs |

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| [Describing the influence of laser welding parameters for AZ91D alloy using hybrid quadratic–radial basis function](http://links.springernature.com/f/a/AjZj2Qz-UZ2kqh9ahl5ycQ~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM1OS01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Vaira Vignesh Ramalingam, Abhinav Chavvali, Nagalla Jayabharath Reddy, M. Govindaraju, Rajesh Kannan Kasi, G. Suganya Priyadharshini |

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| [Vertical up welding characteristics of 5A06 aluminum alloy by 10 KW-level oscillation laser beam](http://links.springernature.com/f/a/QPZ_Hr2F6IDN2BlKwKZO5Q~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM1MS16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Disheng Fang, Fujia Xu, Ruisheng Huang, Linlin Li, Kai Xu, Jipeng Zou |

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| [Pulsed dynamic wire feeding with low insertion angle in GTAW process: a metal transfer characterization](http://links.springernature.com/f/a/hesIUo1G5g86AwONBGZU0A~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM1Mi15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Ivan Olszanski Pigozzo, Régis Henrique Gonçalves e Silva, Daniel Galeazzi, Alex Sandro Pereira |

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| [A measurement method for the forced weld pool surface in GTAW based on simulation model and LSTM network](http://links.springernature.com/f/a/fypNvvbTdEoZrJDCR73dTg~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM0OC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Shaojie Wu, Hongli Li, Fangjie Cheng |

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| [Effect of ambient pressure change on pure tungsten laser spot welding](http://links.springernature.com/f/a/nwRR8wL9Sl6d41RjraTNWw~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM3Mi04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Jian Long, Lin-Jie Zhang, Jie Ning, Suck-Joo Na |

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| [Effect of carbon filler–modified epoxy adhesive on failure behavior of bonded single-lap joint: an experimental study combined with digital image correlation method](http://links.springernature.com/f/a/xX5iu7_WW4OvLaMFZg4kaQ~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM0Ny05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Özkan Öz, Fatih Huzeyfe Öztürk |

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| [A comparison of heuristic, statistical, and machine learning methods for heated tool butt welding of two different materials](http://links.springernature.com/f/a/fl3SGgF544BrSdSgWuCnSA~~/AABE5gA~/RgRlDtvtP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTMzOS05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82Nl8xMCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjIwOTIyVwNzcGNCCmMh7VYsY9qvXmhSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |
| Karina Gevers, Alexander Tornede, Marcel Wever, Volker Schöppner, Eyke Hüllermeier |

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