List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Transport processes for a bubble entrapment during horizontal solidification. International Journal of Thermal Sciences, 2022, 172, 107314. | 4.9 | 3 |
| 2 | Unified algebraic expression of lotus-type pore shape in solid. International Journal of Heat and Mass Transfer, 2022, 185, 122269. | 4.8 | 3 |
| 3 | The effects of material properties on solute transport during entrapment of a bubble subject to horizontal solidification. International Communications in Heat and Mass Transfer, 2022, 133, 105942. | 5.6 | 1 |
| 4 | Self-consistent scaling of amplitude and pitch of ripples on a solidified surface. Journal of Manufacturing Processes, 2022, 79, 501-509. | 5.9 | 1 |
| 5 | Scaling of amplitude and pitch of surface ripples after welding solidification. Science and Technology of Welding and Joining, 2021, 26, 20-27. | 3.1 | 3 |
| 6 | Analytical expression for isolated pore shape in solid. International Journal of Heat and Mass Transfer, 2021, 167, 120812. | 4.8 | 3 |
| 7 | Parametric and algebraic study of an isolated pore shape in solid after unidirectional solidification. Journal of Crystal Growth, 2021, 573, 126289. | 1.5 | 3 |
| 8 | Existence of an isolated pore in solid during unidirectional solidification. Journal of Crystal Growth, 2020, 550, 125889. | 1.5 | 4 |
| 9 | Using the universal phase diagrams to describe pore shape development in solid for different solid for different solidification rates. International Journal of Heat and Mass Transfer, 2020, 158, 119977. | 4.8 | 4 |
| 10 | Solute segregation due to a bubble entrapped as a pore in solid during unidirectional solidification. International Journal of Heat and Mass Transfer, 2020, 152, 119474. | 4.8 | 5 |
| 11 | Energy generation on an array of nanoparticles on a surface. , 2020, , . | | Ο |
| 12 | Solute convection effects on a bubble entrapped as a pore during unidirectional upward solidification. International Journal of Heat and Mass Transfer, 2019, 135, 62-71. | 4.8 | 8 |
| 13 | A pair of pore formation affected by convection during unidirectional solidification. AIP Conference Proceedings, 2019, , . | 0.4 | Ο |
| 14 | Absorption coefficient of water vapor across atmospheric troposphere layer. Heliyon, 2019, 5, e01145. | 3.2 | 16 |
| 15 | Effects of Bubble Location on Pore Shape in Solid. Journal of Mechanics, 2019, 35, 121-129. | 1.4 | 1 |
| 16 | Effects of initial contact angle on pore shape in solid. International Journal of Thermal Sciences, 2018, 130, 208-215. | 4.9 | 1 |
| 17 | Effects of physico-chemical interfacial equilibrium on pore shape in solid. International Journal of Heat and Mass Transfer, 2018, 117, 1-10. | 4.8 | 3 |
| 18 | Absorption coefficient of carbon dioxide across atmospheric troposphere layer. Heliyon, 2018, 4, e00785. | 3.2 | 24 |

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| 19 | Effects of solidification rate on pore shape in solid. International Journal of Thermal Sciences, 2017, 115, 79-88. | 4.9 | 10 |
| 20 | Bond number effects on pore shape in solid. International Journal of Thermal Sciences, 2017, 116, 73-81. | 4.9 | 2 |
| 21 | Case Study of Ambient Pressure Effects on Pore Shape in Solid. Journal of Thermophysics and Heat Transfer, 2017, 31, 796-804. | 1.6 | 3 |
| 22 | Effects of supersaturation on pore shape in solid. Journal of Crystal Growth, 2017, 460, 126-133. | 1.5 | 8 |
| 23 | Existence of Universal Phase Diagrams for Describing General Pore Shape Resulting From an Entrapped Bubble During Solidification. Journal of Heat Transfer, 2016, 138, . | 2.1 | 6 |
| 24 | Effects of solute concentration in liquid on pore shape in solid. International Journal of Heat and Mass Transfer, 2016, 103, 920-930. | 4.8 | 8 |
| 25 | Effects of mass transfer coefficient on pore shape in solid. International Journal of Heat and Mass Transfer, 2016, 103, 931-939. | 4.8 | 8 |
| 26 | The Effects of Drilling Parameters on Pore Size in Keyhole Mode Welding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, . | 2.2 | 0 |
| 27 | Sustaining the inter-wire arc in twin-wire indirect arc welding. Journal of Manufacturing Processes, 2016, 21, 69-74. | 5.9 | 10 |
| 28 | The Effects of Entrainment on Pore Shape in Keyhole Mode Welding. Journal of Heat Transfer, 2015, 137, | 2.1 | 2 |
| 29 | Effects of Entrainment on Incapability of High Intensity Beam Drilling. Journal of Heat Transfer, 2015, 137, . | 2.1 | 1 |
| 30 | Geometrical Effects of an Entrapped Bubble on Pore Shape in Solid. , 2015, , . | | 0 |
| 31 | Workpiece property effects on nugget microstructure determined by heat transfer and solidification rate during resistance spot welding. International Journal of Thermal Sciences, 2014, 86, 421-429. | 4.9 | 17 |
| 32 | Incapability of Drilling With a High-Power-Density Beam. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 2026-2034. | 2.5 | 0 |
| 33 | Keyhole collapse during high intensity beam drilling. International Journal of Heat and Mass Transfer, 2014, 79, 300-308. | 4.8 | 4 |
| 34 | Prediction of pore size in high power density beam welding. International Journal of Heat and Mass Transfer, 2014, 79, 223-232. | 4.8 | 9 |
| 35 | Electrode geometry effects on microstructure determined by heat transfer and solidification rate during resistance spot welding. International Journal of Heat and Mass Transfer, 2014, 79, 408-416. | 4.8 | 17 |
| 36 | Effects of electrode contact condition on electrical dynamic resistance during resistance spot welding. Science and Technology of Welding and Joining, 2014, 19, 173-180. | 3.1 | 10 |

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| 37 | Controlling efficiency of laser drilling. , 2014, , . | | Ο |
| 38 | Joint Quality Affected by Electrode Contact Condition During Resistance Spot Welding. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 2164-2173. | 2.5 | 8 |
| 39 | Numerical study of electrode geometry effects on resistance spot welding. Science and Technology of Welding and Joining, 2013, 18, 661-670. | 3.1 | 10 |
| 40 | Nugget shape control in resistance spot welding. , 2013, , . | | 2 |
| 41 | Controlled Efficiency During Drilling With a High Intensity Beam. , 2013, , . | | Ο |
| 42 | Effects of Bubble Growth and Solidification Rate on Pore Formation in Solid. , 2012, , . | | 1 |
| 43 | Scaling Weld or Melt Pool Shape Affected by Thermocapillary Convection With High Prandtl Numbers. Journal of Heat Transfer, 2012, 134, . | 2.1 | 3 |
| 44 | Workpiece Property Effect on Resistance Spot Welding. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 925-934. | 2.5 | 11 |
| 45 | Pore Formation in Solid. Journal of Mechanics, 2012, 28, 1-6. | 1.4 | 1 |
| 46 | Controlling fusion zone shape and peak temperature produced by laser or electron beam. , 2012, , . | | 0 |
| 47 | Modeling of pore formation in solid. , 2012, , . | | Ο |
| 48 | Transient Thermocapillary Convection in a Molten or Weld Pool. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, . | 2.2 | 6 |
| 49 | Mechanisms of Spiking and Humping in Keyhole Welding. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 383-394. | 2.5 | 37 |
| 50 | Pore shape development from a bubble captured by a solidification front. International Journal of Heat and Mass Transfer, 2012, 55, 8129-8138. | 4.8 | 27 |
| 51 | Scaling weld or melt pool shape induced by thermocapillary convection. International Journal of Heat and Mass Transfer, 2012, 55, 2328-2337. | 4.8 | 15 |
| 52 | Electrical contact resistance effect on resistance spot welding. International Journal of Heat and Mass Transfer, 2012, 55, 3316-3324. | 4.8 | 54 |
| 53 | Curie temperature effects on resistance spot welding. , 2011, , . | | 1 |
| 54 | Scale Analysis of Thermocapillary Weld Pool Shape With High Prandtl Number. , 2011, , . | | 0 |

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| 55 | Magnetic property effect on transport processes in resistance spot welding. Journal Physics D: Applied Physics, 2011, 44, 325501. | 2.8 | 10 |
| 56 | Scaling of spiking and humping in keyhole welding. Journal Physics D: Applied Physics, 2011, 44, 245501. | 2.8 | 15 |
| 57 | Scaling Thermocapillary Surface Velocity in Weld Pool. , 2011, , . | | Ο |
| 58 | Thermal Science of Weld Bead Defects: A Review. Journal of Heat Transfer, 2011, 133, . | 2.1 | 36 |
| 59 | Phase Change Effects on Transport Processes in Resistance Spot Welding. Journal of Mechanics, 2011, 27, 19-26. | 1.4 | 11 |
| 60 | Spiking and Humping Defects in Laser Welding. , 2010, , . | | 0 |
| 61 | Dynamic electrical resistance effects in resistance spot welding. , 2010, , . | | 3 |
| 62 | Effects of electrical current on transport processes in resistance spot welding. Science and Technology of Welding and Joining, 2010, 15, 448-456. | 3.1 | 14 |
| 63 | Mechanism of pore formation in solid. , 2009, , . | | Ο |
| 64 | Unsteady heat conduction involving phase changes for an irregular bubble/particle entrapped in a solid during freezing – An extension of the heat-balance integral method. International Journal of Heat and Mass Transfer, 2009, 52, 996-1004. | 4.8 | 5 |
| 65 | Microbubble or pendant drop control described by a general phase diagram. International Journal of Heat and Mass Transfer, 2009, 52, 1304-1312. | 4.8 | 15 |
| 66 | The effects of Prandtl number on wavy weld boundary. International Journal of Heat and Mass Transfer, 2009, 52, 3790-3798. | 4.8 | 28 |
| 67 | Origin of wavy weld boundary. Journal of Applied Physics, 2009, 105, . | 2.5 | 15 |
| 68 | A Model to Predict Pore Shape in Solid During Solidification. , 2009, , . | | 0 |
| 69 | Universal phase and force diagrams for a microbubble or pendant drop in static fluid on a surface. Journal of Applied Physics, 2008, 103, 023515. | 2.5 | 3 |
| 70 | Universal Force Diagrams of a Microbubble in Static Fluid on a Surface. , 2008, , . | | 0 |
| 71 | Three-dimensional temperature field in a line-heater embedded by a spiral electric resistor. Applied Thermal Engineering, 2006, 26, 916-926. | 6.0 | 3 |
| 72 | Analytical Solution of a Creeping Flow Impinging on a Spherical Cap-Shaped Bubble on a Flat Solid Surface. Journal of Applied Mechanics, Transactions ASME, 2006, 73, 516-523. | 2.2 | 1 |

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| 73 | The effect of sheath on plasma momentum transport to an electrically biased surface. International Journal of Heat and Mass Transfer, 2005, 48, 2198-2208. | 4.8 | 3 |
| 74 | Effects of Plasma Parameters on the Temperature Field in a Workpiece Experiencing Solid-Liquid Phase Transition. Journal of Heat Transfer, 2005, 127, 987-994. | 2.1 | 5 |
| 75 | Plasma energy transport to an electrically biased surface. International Journal of Heat and Mass Transfer, 2004, 47, 4019-4029. | 4.8 | 10 |
| 76 | Growths of bubble/pore sizes in solid during solidification—an in situ measurement and analysis. Journal of Crystal Growth, 2004, 270, 662-673. | 1.5 | 38 |
| 77 | Active solute effects on surface ripples in electron-beam welding solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 421-432. | 2.1 | 20 |
| 78 | Nucleation of bubbles on a solidification front—experiment and analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 321-332. | 2.1 | 44 |
| 79 | Distinct property effects on rapid solidification of a thin liquid layer on a substrate subject to self-consistent melting. Journal of Crystal Growth, 2003, 247, 563-575. | 1.5 | 6 |
| 80 | Missed joint induced by thermoelectric magnetic field in electron-beam welding dissimilar metals—Experiment and scale analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 765-773. | 2.1 | 10 |
| 81 | An analytical self-consistent determination of a bubble with a deformed cap trapped in solid during solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 91-100. | 2.1 | 27 |
| 82 | Absorption in a paraboloid of revolution-shaped welding or drilling cavity irradiated by a polarized laser beam. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 603-614. | 2.1 | 5 |
| 83 | Modeling Dynamic Electrical Resistance During Resistance Spot Welding. Journal of Heat Transfer, 2001, 123, 576-585. | 2.1 | 58 |
| 84 | Shape of a pore trapped in solid during solidification. International Journal of Heat and Mass Transfer, 2000, 43, 263-280. | 4.8 | 42 |
| 85 | Fluid-like transport variables in a kinetic collisionless plasma near a surface with ion and electron reflection. IEEE Transactions on Plasma Science, 2000, 28, 1233-1243. | 1.3 | 7 |
| 86 | Distribution functions of positive ions and electrons in a plasma near a surface. IEEE Transactions on Plasma Science, 2000, 28, 1244-1253. | 1.3 | 9 |
| 87 | Unsteady marangoni flow in a molten pool when welding dissimilar metals. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 1387-1403. | 2.1 | 44 |
| 88 | Heat Transfer Coefficient in Rapid Solidification of a Liquid Layer on a Substrate. Journal of Heat Transfer, 2000, 122, 792-800. | 2.1 | 10 |
| 89 | Fusion Zone Shapes in Electron-Beam Welding Dissimilar Metals. Journal of Heat Transfer, 2000, 122, 626-631. | 2.1 | 16 |
| 90 | Mass, Momentum, and Energy Transport in a Molten Pool When Welding Dissimilar Metals. Journal of Heat Transfer, 1999, 121, 451-461. | 2.1 | 44 |

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| 91 | Beam focusing characteristics effect on energy reflection and absorption in a drilling or welding cavity of paraboloid of revolution. International Journal of Heat and Mass Transfer, 1998, 41, 3299-3308. | 4.8 | 30 |
| 92 | Three-Dimensional Electron-Beam Deflection and Missed Joint in Welding Dissimilar Metals. Journal of Heat Transfer, 1997, 119, 832-839. | 2.1 | 5 |
| 93 | Energy absorption in a conical cavity truncated by spherical cap subject to a focused high intensity beam. International Journal of Heat and Mass Transfer, 1997, 40, 1895-1905. | 4.8 | 13 |
| 94 | Three-dimensional analytical temperature field and its application to solidification characteristics in high- or low-power-densitybeam welding. International Journal of Heat and Mass Transfer, 1997, 40, 2283-2292. | 4.8 | 19 |
| 95 | Transport Phenomena During Resistance Spot Welding. Journal of Heat Transfer, 1996, 118, 762-773. | 2.1 | 45 |
| 96 | Surface Ripple in Electron-Beam Welding Solidification. Journal of Heat Transfer, 1996, 118, 960-969. | 2.1 | 27 |
| 97 | Contact melting by a non-isothermal heating surface of arbitrary shape. International Journal of Heat and Mass Transfer, 1995, 38, 3275-3284. | 4.8 | 15 |
| 98 | Melting Solid Plug Between Two Coaxial Pipes by a Moving Heat Source in the Inner Pipe. Journal of Heat Transfer, 1994, 116, 1028-1033. | 2.1 | 7 |
| 99 | Three-Dimensional Analytical Temperature Field Around the Welding Cavity Produced by a Moving Distributed High-Intensity Beam. Journal of Heat Transfer, 1993, 115, 848-856. | 2.1 | 29 |
| 100 | Energy-Beam redistribution and absorption in a drilling or welding cavity. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 505-511. | 0.4 | 19 |
| 101 | Beam focusing characteristics and alloying element effects on high-intensity electron beam welding. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 81-90. | 0.4 | 22 |
| 102 | Factors Affecting Nugget Growth With Mushy-Zone Phase Change During Resistance Spot Welding. Journal of Heat Transfer, 1991, 113, 643-649. | 2.1 | 29 |
| 103 | Electron Beam Deflection When Welding Dissimilar Metals. Journal of Heat Transfer, 1990, 112, 714-720. | 2.1 | 10 |
| 104 | Axisymmetric Nugget Growth During Resistance Spot Welding. Journal of Heat Transfer, 1990, 112, 309-316. | 2.1 | 44 |
| 105 | Energy considerations in high-energy beam drilling. International Journal of Heat and Mass Transfer, 1990, 33, 2207-2217. | 4.8 | 48 |
| 106 | Investigation of High-Intensity Beam Characteristics on Welding Cavity Shape and Temperature Distribution. Journal of Heat Transfer, 1990, 112, 163-169. | 2.1 | 30 |
| 107 | TEMPERATURE AND VELOCITY DISTRIBUTIONS IN THE LIQUID FLOWING AROUND THE FRONT OF AN ELECTRON BEAM WELDING CAVITY. , 1982, , . | | 1 |
| 108 | Pore Formation from Bubble Entrapment by a Solidification Front. American Journal of Heat and Mass Transfer, 0, , . | 0.0 | 3 |