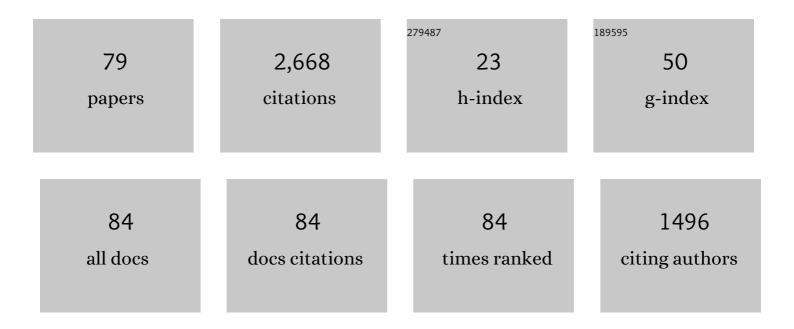
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | FINITE ELEMENT MODELING AND SIMULATION OF WELDING PART 1: INCREASED COMPLEXITY. Journal of Thermal Stresses, 2001, 24, 141-192. | 1.1 | 313 |
| 2 | FINITE ELEMENT MODELING AND SIMULATION OF WELDING. PART 2: IMPROVED MATERIAL MODELING. Journal of Thermal Stresses, 2001, 24, 195-231. | 1.1 | 254 |
| 3 | Numerical modelling of welding. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6710-6736. | 3.4 | 215 |
| 4 | Dislocation density based model for plastic deformation and globularization of Ti-6Al-4V. International Journal of Plasticity, 2013, 50, 94-108. | 4.1 | 158 |
| 5 | FINITE ELEMENT MODELING AND SIMULATION OF WELDING. PART 3: EFFICIENCY AND INTEGRATION. Journal of Thermal Stresses, 2001, 24, 305-334. | 1.1 | 138 |
| 6 | Simulation of multipass welding of a thick plate. International Journal for Numerical Methods in Engineering, 1999, 44, 1301-1316. | 1.5 | 120 |
| 7 | Dislocations, vacancies and solute diffusion in physical based plasticity model for AISI 316L. Mechanics of Materials, 2008, 40, 907-919. | 1.7 | 119 |
| 8 | Modelling of metal deposition. Finite Elements in Analysis and Design, 2011, 47, 1169-1177. | 1.7 | 104 |
| 9 | Simulation of additive manufacturing using coupled constitutive and microstructure models. Additive Manufacturing, 2016, 12, 144-158. | 1.7 | 98 |
| 10 | Flow stress model for IN718 accounting for evolution of strengthening precipitates during thermal treatment. Computational Materials Science, 2014, 82, 531-539. | 1.4 | 80 |
| 11 | Modelling and Simulation of Machining Processes. Archives of Computational Methods in Engineering, 2007, 14, 173-204. | 6.0 | 76 |
| 12 | Deformations and stresses in welding of shell structures. International Journal for Numerical Methods in Engineering, 1988, 25, 635-655. | 1.5 | 72 |
| 13 | Automatic remeshing for three-dimensional finite element simulation of welding. Computer Methods in Applied Mechanics and Engineering, 1997, 147, 401-409. | 3.4 | 68 |
| 14 | A multiresolution continuum simulation of the ductile fracture process. Journal of the Mechanics and Physics of Solids, 2010, 58, 1681-1700. | 2.3 | 60 |
| 15 | Modelling of addition of filler material in large deformation analysis of multipass welding. Communications in Numerical Methods in Engineering, 2001, 17, 647-657. | 1.3 | 59 |
| 16 | Simulation of metal cutting using a physically based plasticity model. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 075005. | 0.8 | 39 |
| 17 | Simulation of Multipass Welding With Simultaneous Computation of Material Properties. Journal of Engineering Materials and Technology, Transactions of the ASME, 2001, 123, 106-111. | 0.8 | 36 |
| 18 | Modelling of induction hardening in low alloy steels. Finite Elements in Analysis and Design, 2018, 144, 61-75. | 1.7 | 31 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A dislocation density based constitutive model for as-cast Al-Si alloys: Effect of temperature and microstructure. International Journal of Mechanical Sciences, 2017, 121, 164-170. | 3.6 | 30 |
| 20 | Efficiency and Accuracy in Thermal Simulation of Powder Bed Fusion of Bulk Metallic Glass. Jom, 2018, 70, 1598-1603. | 0.9 | 29 |
| 21 | Improved and simplified dislocation density based plasticity model for AISI 316 L. Mechanics of Materials, 2017, 108, 68-76. | 1.7 | 27 |
| 22 | Transient bending waves in anisotropic plates studied by hologram interferometry. Experimental Mechanics, 1989, 29, 409-413. | 1.1 | 26 |
| 23 | Explicit versus implicit finite element formulation in simulation of rolling. Journal of Materials Processing Technology, 1990, 24, 85-94. | 3.1 | 26 |
| 24 | Computational welding mechanics. , 2007, , . | | 24 |
| 25 | Modelling high strain rate phenomena in metal cutting simulation. Modelling and Simulation in Materials Science and Engineering, 2012, 20, 085006. | 0.8 | 23 |
| 26 | Simulation of manufacturing chain of a titanium aerospace component with experimental validation. Finite Elements in Analysis and Design, 2012, 51, 10-21. | 1.7 | 22 |
| 27 | Modelling flow stress of AISI 316L at high strain rates. Mechanics of Materials, 2015, 91, 194-207. | 1.7 | 20 |
| 28 | Mechanical behavior and microstructure evolution during deformation of AA7075-T651. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141615. | 2.6 | 20 |
| 29 | Approaches in computational welding mechanics applied to additive manufacturing: Review and outlook. Comptes Rendus - Mecanique, 2018, 346, 1033-1042. | 2.1 | 19 |
| 30 | The Simulation of Precipitation Evolutions and Mechanical Properties in Friction Stir Welding with Post-Weld Heat Treatments. Journal of Materials Engineering and Performance, 2017, 26, 5731-5740. | 1.2 | 18 |
| 31 | Optimization and validation of a dislocation density based constitutive model for as-cast Mg-9%Al-1%Zn. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 710, 17-26. | 2.6 | 17 |
| 32 | Thermal simulation and phase modeling of bulk metallic glass in the powder bed fusion process. Additive Manufacturing, 2019, 27, 345-352. | 1.7 | 17 |
| 33 | Simulation of Ti-6Al-4V Additive Manufacturing Using Coupled Physically Based Flow Stress and Metallurgical Model. Materials, 2019, 12, 3844. | 1.3 | 17 |
| 34 | Electromagnetic wave-based analysis of laser–particle interactions in directed energy deposition additive manufacturing. Additive Manufacturing, 2020, 34, 101284. | 1.7 | 17 |
| 35 | Simulation of hydroforming of steel tube made of metastable stainless steel. International Journal of Plasticity, 2010, 26, 1576-1590. | 4.1 | 16 |
| 36 | Elastic properties of ferrite and austenite in low alloy steels versus temperature and alloying. Materialia, 2019, 5, 100193. | 1.3 | 15 |

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| 37 | History Reduction by Lumping for Time-Efficient Simulation of Additive Manufacturing. Metals, 2020, 10, 58. | 1.0 | 15 |
| 38 | Simulating a chain of manufacturing processes using a geometry-based finite element code with adaptive meshing. Finite Elements in Analysis and Design, 2004, 40, 511-528. | 1.7 | 14 |
| 39 | Smoothing and adaptive remeshing schemes for graded element. Communications in Numerical Methods in Engineering, 2001, 17, 1-17. | 1.3 | 13 |
| 40 | Holographic interferometry measurements of transient bending waves in tubes and rings. Experimental Mechanics, 1993, 33, 308-313. | 1.1 | 12 |
| 41 | Finite Element Simulation to Support Sustainable Production by Additive Manufacturing. Procedia Manufacturing, 2017, 7, 127-130. | 1.9 | 12 |
| 42 | Mechanism Based Flow Stress Model for Alloy 625 and Alloy 718. Materials, 2020, 13, 5620. | 1.3 | 12 |
| 43 | The effective stress function algorithm for pressure-dependent plasticity applied to hot isostatic pressing. International Journal for Numerical Methods in Engineering, 1998, 43, 587-606. | 1.5 | 10 |
| 44 | Simulation of mechanical cutting using a physical based material model. International Journal of Material Forming, 2010, 3, 511-514. | 0.9 | 10 |
| 45 | Process Simulation of Single and Dual Frequency Induction Surface Hardening Considering Magnetic Nonlinearity. Materials Performance and Characterization, 2012, 1, 104374. | 0.2 | 9 |
| 46 | Temperature fields in simulation of butt-welding of large plates. Communications in Applied Numerical Methods, 1986, 2, 155-164. | 0.5 | 8 |
| 47 | Efficient three-dimensional model of rolling using an explicit finite-element formulation. Communications in Numerical Methods in Engineering, 1993, 9, 613-627. | 1.3 | 8 |
| 48 | Measurement and modeling of residual stress in a welded Haynes® 25 cylinder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 399, 49-57. | 2.6 | 8 |
| 49 | Non-local damage models in manufacturing simulations. European Journal of Mechanics, A/Solids, 2015, 49, 548-560. | 2.1 | 8 |
| 50 | Towards predictive simulations of machining. Comptes Rendus - Mecanique, 2016, 344, 284-295. | 2.1 | 8 |
| 51 | Modeling and simulation of weld solidification cracking part II. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1503-1519. | 1.3 | 8 |
| 52 | Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. Journal of Thermal Stresses, 2013, 36, 564-588. | 1.1 | 7 |
| 53 | Supporting engineering decisions through contextual, model-oriented communication and knowledge-based engineering in simulation-driven product development: an automotive case study. Journal of Engineering Design, 2013, 24, 45-63. | 1.1 | 7 |
| 54 | Finite Element Analysis of cold pilgering using elastic roll dies. Procedia Engineering, 2017, 207, 2370. | 1.2 | 7 |

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| 55 | Modeling of thermal stresses in low alloy steels. Journal of Thermal Stresses, 2019, 42, 725-743. | 1.1 | 7 |
| 56 | Thermal stresses and computational welding mechanics. Journal of Thermal Stresses, 2019, 42, 107-121. | 1.1 | 7 |
| 57 | Coupled electromagnetic-thermal solution strategy for induction heating of ferromagnetic materials. Applied Mathematical Modelling, 2022, 111, 818-835. | 2.2 | 7 |
| 58 | Computer simulation of temperature fields in mechanised plasma-arc welding. Journal of Mechanical Working Technology, 1989, 19, 23-33. | 0.1 | 6 |
| 59 | Nonlinear Finite Element Analysis and Applications to Welded Structures. , 2003, , 255-320. | | 6 |
| 60 | High Strain Rate Deformation Behavior and Recrystallization of Alloy 718. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 5243-5257. | 1.1 | 6 |
| 61 | The wedge rolling test. Journal of Materials Processing Technology, 1994, 42, 227-238. | 3.1 | 4 |
| 62 | Models for Forming Simulations of Metastable Austenitic Stainless Steel. AIP Conference Proceedings, 2004, , . | 0.3 | 3 |
| 63 | Understanding welding stress and distortion using computational welding mechanics. , 2011, , 22-78. | | 3 |
| 64 | Thermo-mechanical FE-analysis of residual stresses and stress redistribution in butt welding of a copper canister for spent nuclear fuel. Nuclear Engineering and Design, 2002, 212, 401-408. | 0.8 | 2 |
| 65 | Implicit finite element formulation of multiresolution continuum theory. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 114-130. | 3.4 | 2 |
| 66 | Finite element modeling of tube deformation during cold pilgering. MATEC Web of Conferences, 2016, 80, 15004. | 0.1 | 2 |
| 67 | Heat transfer in cold rolling process of AA8015 alloy: a case study of 2-D FE simulation of coupled thermo-mechanical modeling. International Journal of Advanced Manufacturing Technology, 2019, 100, 2617-2627. | 1.5 | 2 |
| 68 | Welding Stresses. , 2014, , 6594-6600. | | 1 |
| 69 | Modelling additive manufacturing of superalloys. Procedia Manufacturing, 2019, 35, 252-258. | 1.9 | 1 |
| 70 | Improvements of the program â€~a versatile two-dimensional mesh generator with automatic bandwidth reduction'. Computers and Structures, 1987, 25, 637-638. | 2.4 | 0 |
| 71 | Dislocation Density Based Plasticity Model Coupled with Precipitate Model. Key Engineering Materials, 0, 535-536, 125-128. | 0.4 | ο |
| 72 | Challenges in Finite Element Simulations of Chain of Manufacturing Processes. Materials Science Forum, 0, 762, 349-353. | 0.3 | 0 |

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|----|--|-----|-----------|
| 73 | Integrated Design of Material, Manufacturing, Product and Performance. Procedia Manufacturing, 2017, 7, 53-58. | 1.9 | Ο |
| 74 | Work hardening during alternating load directions of 316L SS. Procedia Manufacturing, 2018, 15, 1777-1784. | 1.9 | 0 |
| 75 | Modelling of the Influence of Prior Deformation of Austenite on the Martensite Formation in a Low-Alloyed Carbon Steel. Materials Science Forum, 2018, 941, 95-99. | 0.3 | 0 |
| 76 | A numerical model for simulating the effect of strain rate on eutectic band thickness. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 1635-1658. | 1.3 | 0 |
| 77 | Process Simulation of Single and Dual Frequency Induction Surface Hardening Considering Magnetic Nonlinearity. Materials Performance and Characterization, 2012, 1, MPC-2012-0007. | 0.2 | 0 |
| 78 | The use of simulations and the need of experiments in material processing. , 1995, , 149-161. | | 0 |
| 79 | Non-Local Modelling of Strain Softening in Machining Simulations. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012053. | 0.3 | Ο |