

Koulis Pericleous

List of Publications by Year in descending order

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156
papers

4,648
citations

136950

32
h-index

110387

64
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173
all docs

173
docs citations

173
times ranked

3378
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling air quality in street canyons: a review. <i>Atmospheric Environment</i> , 2003, 37, 155-182.	4.1	880
2	Laminar and turbulent natural convection in an enclosed cavity. <i>International Journal of Heat and Mass Transfer</i> , 1984, 27, 755-772.	4.8	514
3	Characterizing the cavitation development and acoustic spectrum in various liquids. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 651-662.	8.2	164
4	A synchrotron X-radiography study of the fragmentation and refinement of primary intermetallic particles in an Al-35 Cu alloy induced by ultrasonic melt processing. <i>Acta Materialia</i> , 2017, 141, 142-153.	7.9	131
5	Ultrafast synchrotron X-ray imaging studies of microstructure fragmentation in solidification under ultrasound. <i>Acta Materialia</i> , 2018, 144, 505-515.	7.9	112
6	A refining mechanism of primary Al3Ti intermetallic particles by ultrasonic treatment in the liquid state. <i>Acta Materialia</i> , 2016, 116, 354-363.	7.9	109
7	4D synchrotron X-ray tomographic quantification of the transition from cellular to dendrite growth during directional solidification. <i>Acta Materialia</i> , 2016, 117, 160-169.	7.9	98
8	Spatial variability of air pollution in the vicinity of a permanent monitoring station in central Paris. <i>Atmospheric Environment</i> , 2005, 39, 2725-2736.	4.1	96
9	Heat and mass transfer in two-phase porous materials under intensive microwave heating. <i>Journal of Food Engineering</i> , 2004, 65, 403-412.	5.2	87
10	In situ observation of ultrasonic cavitation-induced fragmentation of the primary crystals formed in Al alloys. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 66-76.	8.2	86
11	Investigation of the factors influencing cavitation intensity during the ultrasonic treatment of molten aluminium. <i>Materials and Design</i> , 2016, 90, 979-983.	7.0	82
12	Dendritic growth velocities in an undercooled melt of pure nickel under static magnetic fields: A test of theory with convection. <i>Acta Materialia</i> , 2016, 103, 184-191.	7.9	78
13	Dynamic fluid-structure interaction using finite volume unstructured mesh procedures. <i>Computers and Structures</i> , 2002, 80, 371-390.	4.4	76
14	Modelling Electromagnetically Levitated Liquid Droplet Oscillations. <i>ISIJ International</i> , 2003, 43, 890-898.	1.4	74
15	Numerical modelling of acoustic streaming during the ultrasonic melt treatment of direct-chill (DC) casting. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 171-182.	8.2	74
16	Numerical modelling of ultrasonic waves in a bubbly Newtonian liquid using a high-order acoustic cavitation model. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 660-668.	8.2	66
17	The hydrocyclone classifier – A numerical approach. <i>International Journal of Mineral Processing</i> , 1986, 17, 23-43.	2.6	65
18	Ultrasonic liquid metal processing: The essential role of cavitation bubbles in controlling acoustic streaming. <i>Ultrasonics Sonochemistry</i> , 2019, 55, 243-255.	8.2	64

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19	Experimental and numerical investigation of acoustic pressures in different liquids. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 411-421.	8.2	62
20	Characterisation of the ultrasonic acoustic spectrum and pressure field in aluminium melt with an advanced cavitometer. <i>Journal of Materials Processing Technology</i> , 2016, 229, 582-586.	6.3	60
21	Model sensitivity and uncertainty analysis using roadside air quality measurements. <i>Atmospheric Environment</i> , 2002, 36, 2121-2134.	4.1	55
22	Finite volume methods applied to the computational modelling of welding phenomena. <i>Applied Mathematical Modelling</i> , 2002, 26, 311-322.	4.2	47
23	A finite volume unstructured mesh approach to dynamic fluid-structure interaction: an assessment of the challenge of predicting the onset of flutter. <i>Applied Mathematical Modelling</i> , 2004, 28, 211-239.	4.2	47
24	Development of a turbulence-free casting technique for titanium aluminides. <i>Intermetallics</i> , 2011, 19, 805-813.	3.9	47
25	Mathematical simulation of hydrocyclones. <i>Applied Mathematical Modelling</i> , 1987, 11, 242-255.	4.2	45
26	On the governing fragmentation mechanism of primary intermetallics by induced cavitation. <i>Ultrasonics Sonochemistry</i> , 2021, 70, 105260.	8.2	44
27	Modeling of convection, temperature distribution and dendritic growth in glass-fluxed nickel melts. <i>Journal of Crystal Growth</i> , 2017, 471, 66-72.	1.5	42
28	Synchrotron radiographic studies of ultrasonic melt processing of metal matrix nano composites. <i>Materials Letters</i> , 2016, 164, 484-487.	2.6	40
29	Experimental and numerical study of the cold crucible melting process. <i>Applied Mathematical Modelling</i> , 2006, 30, 1262-1280.	4.2	37
30	The effects of Thermoelectric Magnetohydrodynamics in directional solidification under a transverse magnetic field. <i>Journal of Crystal Growth</i> , 2017, 457, 270-274.	1.5	37
31	In Situ Synchrotron Radiography and Spectrum Analysis of Transient Cavitation Bubbles in Molten Aluminium Alloy. <i>Physics Procedia</i> , 2015, 70, 841-845.	1.2	36
32	The numerical modelling of DC electromagnetic pump and brake flow. <i>Applied Mathematical Modelling</i> , 1995, 19, 713-723.	4.2	35
33	Evaluation of distortions in laser welded shipbuilding parts using local-global finite element approach. <i>Science and Technology of Welding and Joining</i> , 2003, 8, 79-88.	3.1	34
34	A Multiscale 3D Model of the Vacuum Arc Remelting Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5365-5376.	2.2	34
35	Characterization of shock waves in power ultrasound. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	3.4	34
36	FREE SURFACE FLOW AND HEAT TRANSFER IN CAVITIES: THE SEA ALGORITHM. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1995, 27, 487-507.	0.9	28

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37	Microwave Modeling and Validation in Food Thawing Applications. Journal of Microwave Power and Electromagnetic Energy, 2006, 41, 30-45.	0.8	28
38	Toward a Full Simulation of the Basic Oxygen Furnace: Deformation of the Bath Free Surface and Coupled Transfer Processes Associated with the Post-Combustion in the Gas Region. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 653-670.	2.1	28
39	Numerical model of electrode induction melting for gas atomization. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1455-1466.	0.9	27
40	Contactless Ultrasound Generation in a Crucible. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2884-2892.	2.2	27
41	A Parallel Cellular Automata Lattice Boltzmann Method for Convection-Driven Solidification. Jom, 2019, 71, 48-58.	1.9	25
42	NUMERICAL MODELLING OF CIRCULATING FLUIDIZED BEDS. International Journal of Computational Fluid Dynamics, 1993, 1, 161-176.	1.2	24
43	A new computational approach to microwave heating of two-phase porous materials. International Journal of Numerical Methods for Heat and Fluid Flow, 2004, 14, 783-802.	2.8	24
44	In-situ observations and acoustic measurements upon fragmentation of free-floating intermetallics under ultrasonic cavitation in water. Ultrasonics Sonochemistry, 2021, 80, 105820.	8.2	23
45	Three-dimensional free surface modelling in an unstructured mesh environment for metal processing applications. Applied Mathematical Modelling, 1998, 22, 895-906.	4.2	22
46	Computational modelling of bubbles, droplets and particles in metals reduction and refining. Applied Mathematical Modelling, 2006, 30, 1445-1458.	4.2	20
47	Numerical simulation of the effect of fluid flow on solute distribution and dendritic morphology. International Journal of Cast Metals Research, 2009, 22, 204-207.	1.0	20
48	MULTISCALE MODELING OF THE VACUUM ARC REMELTING PROCESS FOR THE PREDICTION ON MICROSTRUCTURE FORMATION. International Journal of Modern Physics B, 2009, 23, 1584-1590.	2.0	20
49	In-situ synchrotron X-ray radiography observation of primary Al ₂ Cu intermetallic growth on fragments of aluminium oxide film. Materials Letters, 2018, 213, 303-305.	2.6	19
50	Acoustic resonance for contactless ultrasonic cavitation in alloy melts. Ultrasonics Sonochemistry, 2020, 63, 104959.	8.2	19
51	Numerical modelling and experimental validation of the effect of ultrasonic melt treatment in a direct-chill cast AA6008 alloy billet. Journal of Materials Research and Technology, 2021, 12, 1582-1596.	5.8	18
52	The CFD analysis of simple parabolic and elliptic MHD flows. Applied Mathematical Modelling, 1994, 18, 150-155.	4.2	17
53	Modelling of Electromagnetic Levitation - Consequences on Non-contact Physical Properties Measurements. High Temperature Materials and Processes, 2008, 27, 439-448.	1.4	17
54	Dynamic Model for Metal Cleanness Evaluation by Melting in a Cold Crucible. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2009, 40, 328-336.	2.1	17

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55	Finite volume solutions for electromagnetic induction processing. Applied Mathematical Modelling, 2015, 39, 4733-4745.	4.2	16
56	Dynamics of two interacting hydrogen bubbles in liquid aluminum under the influence of a strong acoustic field. Physical Review E, 2015, 92, 043004.	2.1	15
57	A fourth-order partial differential equation denoising model with an adaptive relaxation method. International Journal of Computer Mathematics, 2015, 92, 608-622.	1.8	15
58	Mechanisms of ultrasonic de-agglomeration of oxides through in-situ high-speed observations and acoustic measurements. Ultrasonics Sonochemistry, 2021, 79, 105792.	8.2	15
59	Investigation into the performance of turbulence models for fluid flow and heat transfer phenomena in electronic applications. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 686-699.	1.3	14
60	Computational modeling of mold filling and related free-surface flows in shape casting: An overview of the challenges involved. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2006, 37, 879-885.	2.1	14
61	Coupling of Acoustic Cavitation with Dem-Based Particle Solvers for Modeling De-agglomeration of Particle Clusters in Liquid Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5616-5627.	2.2	14
62	Structure Refinement Upon Ultrasonic Melt Treatment in a DC Casting Launder. Jom, 2020, 72, 4071-4081.	1.9	14
63	Modelling the dynamics of the tilt-casting process and the effect of the mould design on the casting quality. Computers and Fluids, 2011, 42, 92-101.	2.5	13
64	Mathematical modelling of a compressible oxygen jet entering a hot environment using a pressure-based finite volume code. Computers and Fluids, 2012, 59, 91-100.	2.5	13
65	Contactless Ultrasonic Cavitation in Alloy Melts. Materials, 2019, 12, 3610.	2.9	13
66	Magnetic Effects on Microstructure and Solute Plume Dynamics of Directionally Solidifying Ga-In Alloy. Jom, 2020, 72, 3645-3651.	1.9	13
67	Moment-based boundary conditions for straight on-grid boundaries in three-dimensional lattice Boltzmann simulations. International Journal for Numerical Methods in Fluids, 2020, 92, 1948-1974.	1.6	13
68	A defect equation approach for the coupling of subdomains in domain decomposition methods. Computers and Mathematics With Applications, 1998, 35, 81-94.	2.7	12
69	Consideration of heat transfer and solidification in 3-D MHD calculation. IEEE Transactions on Magnetics, 2000, 36, 1300-1304.	2.1	12
70	An experimental and numerical CFD study of turbulence in a tundish container. Applied Mathematical Modelling, 2002, 26, 323-336.	4.2	12
71	Turbulence modelling and its impact on CFD predictions for cooling of electronic components. , 0, , .		12
72	Computational Modelling of Multi-Physics and Multi-Scale Processes in Parallel. International Journal for Computational Methods in Engineering Science and Mechanics, 2007, 8, 63-74.	2.1	12

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73	A model of cavitation for the treatment of a moving liquid metal volume. International Journal of Cast Metals Research, 2016, 29, 324-330.	1.0	12
74	Numerical Modelling of the Ultrasonic Treatment of Aluminium Melts: An Overview of Recent Advances. Materials, 2019, 12, 3262.	2.9	12
75	Scale up design study on process vessel dimensions for ultrasonic processing of water and liquid aluminium. Ultrasonics Sonochemistry, 2021, 76, 105647.	8.2	12
76	Mathematical modelling tools for the optimisation of direct smelting processes. Applied Mathematical Modelling, 1998, 22, 921-940.	4.2	11
77	On the coupling of Navier–Stokes and linearised Euler equations for aeroacoustic simulation. Computing and Visualization in Science, 2000, 3, 9-12.	1.2	11
78	Effects of magnetic fields on crystal growth. International Journal of Cast Metals Research, 2009, 22, 147-150.	1.0	11
79	A Numerical Model Coupling Thermoelectricity, Magnetohydrodynamics and Dendritic Growth. Journal of Algorithms and Computational Technology, 2012, 6, 173-201.	0.7	10
80	Influence of a Slow Rotating Magnetic Field in Thermoelectric Magnetohydrodynamic Processing of Alloys. ISIJ International, 2014, 54, 1283-1287.	1.4	10
81	Measurements and modelling of dendritic growth velocities of pure Fe with thermoelectric magnetohydrodynamics convection. Journal of Crystal Growth, 2017, 475, 354-361.	1.5	10
82	Simulation of the stencil printing process [solder pastes]. , 0, , .		9
83	An acoustic correction method for extracting sound signals. Computers and Mathematics With Applications, 2004, 47, 57-69.	2.7	9
84	Numerical modelling of tilt casting process for Ti-3TiAl alloys. International Journal of Cast Metals Research, 2012, 25, 65-74.	1.0	9
85	Multiphysics Modelling of Ultrasonic Melt Treatment in the Hot-Top and Launder during Direct-Chill Casting: Path to Indirect Microstructure Simulation. Metals, 2021, 11, 674.	2.3	9
86	Modeling the Break-up of Nano-particle Clusters in Aluminum- and Magnesium-Based Metal Matrix Nano-composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2893-2907.	2.2	8
87	Enhancement of Mechanical Properties of Pure Aluminium through Contactless Melt Sonicating Treatment. Materials, 2021, 14, 4479.	2.9	8
88	Numerical modelling of liquid droplet dynamics in microgravity. Journal of Physics: Conference Series, 2011, 327, 012027.	0.4	7
89	Contactless Acoustic Wave Generation in a Melt by Electromagnetic Induction. , 2014, , 1379-1382.		7
90	Effect of Input Power and Temperature on the Cavitation Intensity During the Ultrasonic Treatment of Molten Aluminium. Transactions of the Indian Institute of Metals, 2015, 68, 1023-1026.	1.5	7

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91	The effects of natural, forced and thermoelectric magnetohydrodynamic convection during the solidification of thin sample alloys. IOP Conference Series: Materials Science and Engineering, 2015, 84, 012018.	0.6	7
92	Modelled atmospheric contribution to nitrogen eutrophication in the English Channel and the southern North Sea. Atmospheric Environment, 2015, 102, 191-199.	4.1	7
93	Contactless Ultrasonic Treatment in Direct Chill Casting. Jom, 2020, 72, 4082-4091.	1.9	7
94	Improving Ultrasonic Melt Treatment Efficiency Through Flow Management: Acoustic Pressure Measurements and Numerical Simulations. Minerals, Metals and Materials Series, 2020, , 981-987.	0.4	7
95	A hydrometeorological, three-dimensional model of thermal energy releases into environmental media. International Journal for Numerical Methods in Fluids, 1987, 7, 263-276.	1.6	6
96	Heat transfer in differentially heated non-Newtonian cavities. International Journal of Numerical Methods for Heat and Fluid Flow, 1994, 4, 229-248.	2.8	6
97	Modelling induction skull melting design modifications. Journal of Materials Science, 2004, 39, 7245-7251.	3.7	6
98	Dynamic melting model for small samples in cold crucible. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 350-358.	0.9	6
99	Droplet Oscillations in High Gradient Static Magnetic Field. Microgravity Science and Technology, 2009, 21, 119-122.	1.4	6
100	Application of the "Full Cavitation Model" to the fundamental study of cavitation in liquid metal processing. IOP Conference Series: Materials Science and Engineering, 2015, 72, 052050.	0.6	6
101	Verification of thermoelectric magnetohydrodynamic flow effects on dendritic tip kinetics by in-situ observations. International Journal of Heat and Mass Transfer, 2019, 136, 1139-1146.	4.8	6
102	The development of a structured mesh grid adaption technique for resolving shock discontinuities in upwind Navier-Stokes codes. International Journal for Numerical Methods in Fluids, 1995, 20, 1179-1197.	1.6	5
103	A domain decomposition algorithm for viscous/inviscid coupling. Advances in Engineering Software, 1996, 26, 151-159.	3.8	5
104	Accuracy of a domain decomposition method for the recovering of discontinuous heat sources in metal sheet cutting. Computing and Visualization in Science, 1999, 2, 149-152.	1.2	5
105	Contraction-Expansion Coefficient Learning in Quantum-Behaved Particle Swarm Optimization. , 2011, , .		5
106	Comparison of cavitation intensity in water and in molten aluminium using a high-temperature cavitometer. Journal of Physics: Conference Series, 2015, 656, 012120.	0.4	5
107	Data and videos for ultrafast synchrotron X-ray imaging studies of metal solidification under ultrasound. Data in Brief, 2018, 17, 837-841.	1.0	5
108	Mathematical modelling: a laser soldering process for an optoelectronics butterfly package. , 0, , .		4

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109	Accuracy of turbulence models and CFD for thermal characterisation of electronic systems. , 0, , .		4
110	Turbulence Modelling for Electronic Cooling: A Review. , 0, , .		4
111	Numerical simulation of flow-induced cavity noise in self-sustained oscillations. Computing and Visualization in Science, 2007, 10, 123-134.	1.2	4
112	Application of Lagrangian particle dispersion models to air quality assessment in the Trans-Manche region of Nord-Pas-de-Calais (France) and Kent (Great Britain). International Journal of Environment and Pollution, 2010, 40, 160.	0.2	4
113	Dual frequency AC and DC magnetic field levitation melting of metals. International Journal of Applied Electromagnetics and Mechanics, 2014, 44, 147-153.	0.6	4
114	The Contactless Electromagnetic Sonotrode. Minerals, Metals and Materials Series, 2019, , 239-252.	0.4	4
115	Ultrasound induced fragmentation of primary Al ₃ Zr crystals. MATEC Web of Conferences, 2020, 326, 04002.	0.2	4
116	An integrated approach to flow, thermal and mechanical modeling of electronics devices. , 0, , .		3
117	On a Modified Diffusion Model for Noise Removal. Journal of Algorithms and Computational Technology, 2012, 6, 35-57.	0.7	3
118	Analysis of heat transfer through the castingâ€mould interface including gasâ€gap effect and application to TiAl castings. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 707-724.	2.8	3
119	Numerical Modelling for Electromagnetic Processing of Materials. Fluid Mechanics and Its Applications, 2007, , 357-374.	0.2	3
120	Effect of Flow Management on Ultrasonic Melt Processing in a Launder upon DC Casting. Minerals, Metals and Materials Series, 2022, , 649-654.	0.4	3
121	Modelling Three-Dimensional Microstructure Evolution Influenced by Concurrent Structural Mechanical Mechanisms. Jom, 2022, 74, 2461-2469.	1.9	3
122	High-Speed Imaging of the Ultrasonic Deagglomeration of Carbon Nanotubes in Water. Jom, 2022, 74, 2470-2483.	1.9	3
123	Domain decomposition methods for some aerodynamic noise problems. , 1997, , .		2
124	Numerical investigation of a source extraction technique based on an acoustic correction method. Computers and Mathematics With Applications, 2008, 55, 441-458.	2.7	2
125	Investigation of Instabilities Arising with Non-Orthogonal Meshes Used in Cell Centred Elliptic Finite Volume Computations. Journal of Algorithms and Computational Technology, 2012, 6, 129-152.	0.7	2
126	Use of a Static Magnetic Field in Measuring the Thermal Conductivity of a Levitated Molten Droplet. Journal of Algorithms and Computational Technology, 2012, 6, 153-172.	0.7	2

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127	Using thermoelectric magnetohydrodynamics to control microstructural evolution. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012045.	0.6	2
128	Comparison between low-order and high-order acoustic pressure solvers for bubbly media computations. Journal of Physics: Conference Series, 2015, 656, 012134.	0.4	2
129	Fundamental studies on cavitation melt processing. IOP Conference Series: Materials Science and Engineering, 2016, 129, 012068.	0.6	2
130	Coupling acoustic cavitation and solidification in the modeling of light alloy melt ultrasonic treatment. , 2016, , .		2
131	Acoustic Cavitation Measurements and Modeling in Liquid Aluminum. Minerals, Metals and Materials Series, 2019, , 1533-1538.	0.4	2
132	Coupled 3D Finite Difference Time Domain and Finite Volume Methods for Solving Microwave Heating in Porous Media. Lecture Notes in Computer Science, 2002, , 813-822.	1.3	2
133	GRAFFIC: A computer package for the interactive graphical representation of fluid-flow phenomena. Advances in Engineering Software (1978), 1983, 5, 86-91.	0.1	1
134	A domain decomposition algorithm for inverse welding problems. Computing and Visualization in Science, 2001, 4, 105-109.	1.2	1
135	Performance Evaluation of a Distributed Algorithm for an Inverse Heat Conduction Problem. Computer Journal, 2001, 44, 214-220.	2.4	1
136	A coarse grid extraction of sound signals for computational aeroacoustics. International Journal for Numerical Methods in Fluids, 2002, 40, 1515-1525.	1.6	1
137	Numerical Simulation of Incompressible Flow Problems Using an Unstructured Staggered Mesh Method. Journal of Algorithms and Computational Technology, 2007, 1, 273-302.	0.7	1
138	A nonoverlapping domain decomposition method for nonlinear physical processes. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2140003-2140004.	0.2	1
139	A mathematical description of the acoustic coupling of the mass/spring model. Applied Mathematical Modelling, 2007, 31, 2684-2695.	4.2	1
140	Experimental and Numerical Simulation of the Mould Region of a Steel Continuous Caster. , 2010, , .		1
141	Ultrasonic Melt Treatment in a DC Casting Launder: The Role of Melt Processing Temperature. Minerals, Metals and Materials Series, 2021, , 850-857.	0.4	1
142	A High-Order Acoustic Cavitation Model for the Treatment of a Moving Liquid Metal Volume. Minerals, Metals and Materials Series, 2016, , 135-142.	0.4	1
143	A DISTRIBUTED ALGORITHM FOR FLOW INDUCED ACOUSTICS. Journal of Computational Acoustics, 2006, 14, 131-141.	1.0	0
144	Choosing the Appropriate Level of Coupling in Multiphysics Modeling of Metallurgical Processes. , 2009, , .		0

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145	Comparison of Higher-Order Numerical Schemes and Several Filtering Methods Applied to Navier-Stokes Equations with Applications to Computational Aeroacoustics. Journal of Algorithms and Computational Technology, 2009, 3, 443-459.	0.7	0
146	Local convergence of an adaptive scalar method and its application in a nonoverlapping domain decomposition scheme. Journal of Computational and Applied Mathematics, 2011, 235, 5203-5212.	2.0	0
147	An Inverse Problem for the Absorption of Fatty Acid. Journal of Algorithms and Computational Technology, 2015, 9, 27-40.	0.7	0
148	Contactless ultrasonic treatment of melts using EM induction. IOP Conference Series: Materials Science and Engineering, 2015, 84, 012017.	0.6	0
149	Dynamic melting and impurity particle tracking in continuously adjustable AC magnetic field. IOP Conference Series: Materials Science and Engineering, 2016, 143, 012020.	0.6	0
150	Optimised High-Order Compact Difference Schemes for Internal Acoustics Problems On Curvilinear Domains. Journal of Physics: Conference Series, 2019, 1184, 012005.	0.4	0
151	Cold crucible melting with bottom pouring nozzle. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 39, 36-42.	0.9	0
152	A Defect Correction Method for Multi-Scale Problems in Computational Aeroacoustics. Lecture Notes in Computational Science and Engineering, 2002, , 147-156.	0.3	0
153	Staggered-mesh computation for aerodynamic sound. , 1998, , .		0
154	MULTIPLE TIMESCALE MODELLING OF PARTICLE SUSPENSIONS IN METAL MELTS SUBJECTED TO EXTERNAL FORCES. , 2016, , .		0
155	Magnetohydrodynamics Processing and Modeling. Springer Series in Materials Science, 2018, , 75-118.	0.6	0
156	Magnetic Levitation of a Large Mass of Liquid Metal. , 0, , .		0