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 g-index
173 all docs	173 docs citations	173 times ranked	3378 citing authors

#	Article	IF	Citations
1	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
2	Modelling Three-Dimensional Microstructure Evolution Influenced by Concurrent Structural Mechanical Mechanisms. Jom, 2022, 74, 2461-2469.	1.9	3
3	High-Speed Imaging of the Ultrasonic Deagglomeration of Carbon Nanotubes in Water. Jom, 2022, 74, 2470-2483.	1.9	3
4	On the governing fragmentation mechanism of primary intermetallics by induced cavitation. Ultrasonics Sonochemistry, 2021, 70, 105260.	8.2	44
5	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
6	Characterization of shock waves in power ultrasound. Journal of Fluid Mechanics, 2021, 915, .	3.4	34
7	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
8	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
9	Scale up design study on process vessel dimensions for ultrasonic processing of water and liquid aluminium. Ultrasonics Sonochemistry, 2021, 76, 105647.	8.2	12
10	Enhancement of Mechanical Properties of Pure Aluminium through Contactless Melt Sonicating Treatment. Materials, 2021, 14, 4479.	2.9	8
11	Mechanisms of ultrasonic de-agglomeration of oxides through in-situ high-speed observations and acoustic measurements. Ultrasonics Sonochemistry, 2021, 79, 105792.	8.2	15
12	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
13	Structure Refinement Upon Ultrasonic Melt Treatment in a DC Casting Launder. Jom, 2020, 72, 4071-4081.	1.9	14
14	Contactless Ultrasonic Treatment in Direct Chill Casting. Jom, 2020, 72, 4082-4091.	1.9	7
15	Magnetic Effects on Microstructure and Solute Plume Dynamics of Directionally Solidifying Ga-In Alloy. Jom, 2020, 72, 3645-3651.	1.9	13
16	Momentâ€based boundary conditions for straight onâ€grid boundaries in threeâ€dimensional lattice Boltzmann simulations. International Journal for Numerical Methods in Fluids, 2020, 92, 1948-1974.	1.6	13
17	Acoustic resonance for contactless ultrasonic cavitation in alloy melts. Ultrasonics Sonochemistry, 2020, 63, 104959.	8.2	19
18	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

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19	Ultrasound induced fragmentation of primary Al3Zr crystals. MATEC Web of Conferences, 2020, 326, 04002.	0.2	4
20	Optimised High-Order Compact Difference Schemes for Internal Acoustics Problems On Curvilinear Domains. Journal of Physics: Conference Series, 2019, 1184, 012005.	0.4	0
21	Contactless Ultrasonic Cavitation in Alloy Melts. Materials, 2019, 12, 3610.	2.9	13
22	Numerical Modelling of the Ultrasonic Treatment of Aluminium Melts: An Overview of Recent Advances. Materials, 2019, 12, 3262.	2.9	12
23	Ultrasonic liquid metal processing: The essential role of cavitation bubbles in controlling acoustic streaming. Ultrasonics Sonochemistry, 2019, 55, 243-255.	8.2	64
24	A Parallel Cellular Automata Lattice Boltzmann Method for Convection-Driven Solidification. Jom, 2019, 71, 48-58.	1.9	25
25	The Contactless Electromagnetic Sonotrode. Minerals, Metals and Materials Series, 2019, , 239-252.	0.4	4
26	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
27	Numerical modelling of acoustic streaming during the ultrasonic melt treatment of direct-chill (DC) casting. Ultrasonics Sonochemistry, 2019, 54, 171-182.	8.2	74
28	Acoustic Cavitation Measurements and Modeling in Liquid Aluminum. Minerals, Metals and Materials Series, 2019, , 1533-1538.	0.4	2
29	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
30	Experimental and numerical investigation of acoustic pressures in different liquids. Ultrasonics Sonochemistry, 2018, 42, 411-421.	8.2	62
31	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
32	In-situ synchrotron X-ray radiography observation of primary Al2Cu intermetallic growth on fragments of aluminium oxide film. Materials Letters, 2018, 213, 303-305.	2.6	19
33	Ultrafast synchrotron X-ray imaging studies of microstructure fragmentation in solidification under ultrasound. Acta Materialia, 2018, 144, 505-515.	7.9	112
34	Magnetohydrodynamics Processing and Modeling. Springer Series in Materials Science, 2018, , 75-118.	0.6	0
35	Numerical modelling of ultrasonic waves in a bubbly Newtonian liquid using a high-order acoustic cavitation model. Ultrasonics Sonochemistry, 2017, 37, 660-668.	8.2	66
36	In situ observation of ultrasonic cavitation-induced fragmentation of the primary crystals formed in Al alloys. Ultrasonics Sonochemistry, 2017, 39, 66-76.	8.2	86

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37	Modeling of convection, temperature distribution and dendritic growth in glass-fluxed nickel melts. Journal of Crystal Growth, 2017, 471, 66-72.	1.5	42
38	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
39	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. Acta Materialia, 2017, 141, 142-153.	7.9	131
40	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
41	Characterizing the cavitation development and acoustic spectrum in various liquids. Ultrasonics Sonochemistry, 2017, 34, 651-662.	8.2	164
42	The effects of Thermoelectric Magnetohydrodynamics in directional solidification under a transverse magnetic field. Journal of Crystal Growth, 2017, 457, 270-274.	1.5	37
43	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
44	Fundamental studies on cavitation melt processing. IOP Conference Series: Materials Science and Engineering, 2016, 129, 012068.	0.6	2
45	4D synchrotron X-ray tomographic quantification of the transition from cellular to dendrite growth during directional solidification. Acta Materialia, 2016, 117, 160-169.	7.9	98
46	Coupling acoustic cavitation and solidification in the modeling of light alloy melt ultrasonic treatment. , 2016, , .		2
47	A refining mechanism of primary Al3Ti intermetallic particles byÂultrasonic treatment in the liquid state. Acta Materialia, 2016, 116, 354-363.	7.9	109
48	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
49	Investigation of the factors influencing cavitation intensity during the ultrasonic treatment of molten aluminium. Materials and Design, 2016, 90, 979-983.	7.0	82
50	Synchrotron radiographic studies of ultrasonic melt processing of metal matrix nano composites. Materials Letters, 2016, 164, 484-487.	2.6	40
51	Dendritic growth velocities in an undercooled melt of pure nickel under static magnetic fields: A test of theory with convection. Acta Materialia, 2016, 103, 184-191.	7.9	78
52	Characterisation of the ultrasonic acoustic spectrum and pressure field in aluminium melt with an advanced cavitometer. Journal of Materials Processing Technology, 2016, 229, 582-586.	6.3	60
53	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
54	MULTIPLE TIMESCALE MODELLING OF PARTICLE SUSPENSIONS IN METAL MELTS SUBJECTED TO EXTERNAL FORCES. , 2016, , .		0

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55	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
56	In Situ Synchrotron Radiography and Spectrum Analysis of Transient Cavitation Bubbles in Molten Aluminium Alloy. Physics Procedia, 2015, 70, 841-845.	1.2	36
57	An Inverse Problem for the Absorption of Fatty Acid. Journal of Algorithms and Computational Technology, 2015, 9, 27-40.	0.7	0
58	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
59	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
60	Finite volume solutions for electromagnetic induction processing. Applied Mathematical Modelling, 2015, 39, 4733-4745.	4.2	16
61	Contactless Ultrasound Generation in a Crucible. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2884-2892.	2.2	27
62	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
63	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
64	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
65	Contactless ultrasonic treatment of melts using EM induction. IOP Conference Series: Materials Science and Engineering, 2015, 84, 012017.	0.6	0
66	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
67	Modelled atmospheric contribution to nitrogen eutrophication in the English Channel and the southern North Sea. Atmospheric Environment, 2015, 102, 191-199.	4.1	7
68	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
69	Influence of a Slow Rotating Magnetic Field in Thermoelectric Magnetohydrodynamic Processing of Alloys. ISIJ International, 2014, 54, 1283-1287.	1.4	10
70	Contactless Acoustic Wave Generation in a Melt by Electromagnetic Induction. , 2014, , 1379-1382.		7
71	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
72	A Multiscale 3D Model of the Vacuum Arc Remelting Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5365-5376.	2.2	34

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73	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
74	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
75	Numerical modelling of tilt casting process forÎ³-TiAl alloys. International Journal of Cast Metals Research, 2012, 25, 65-74.	1.0	9
76	A Numerical Model Coupling Thermoelectricity, Magnetohydrodynamics and Dendritic Growth. Journal of Algorithms and Computational Technology, 2012, 6, 173-201.	0.7	10
77	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
78	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
79	On a Modified Diffusion Model for Noise Removal. Journal of Algorithms and Computational Technology, 2012, 6, 35-57.	0.7	3
80	Using thermoelectric magnetohydrodynamics to control microstructural evolution. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012045.	0.6	2
81	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
82	Contraction-Expansion Coefficient Learning in Quantum-Behaved Particle Swarm Optimization. , 2011, , .		5
83	Numerical modelling of liquid droplet dynamics in microgravity. Journal of Physics: Conference Series, 2011, 327, 012027.	0.4	7
84	Development of a turbulence-free casting technique for titanium aluminides. Intermetallics, 2011, 19, 805-813.	3.9	47
85	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
86	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
87	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
88	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
89	Experimental and Numerical Simulation of the Mould Region of a Steel Continuous Caster. , 2010, , .		1
90	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

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91	Effects of magnetic fields on crystal growth. International Journal of Cast Metals Research, 2009, 22, 147-150.	1.0	11
92	Choosing the Appropriate Level of Coupling in Multiphysics Modeling of Metallurgical Processes. , 2009, , .		0
93	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
94	Droplet Oscillations in High Gradient Static Magnetic Field. Microgravity Science and Technology, 2009, 21, 119-122.	1.4	6
95	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
96	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
97	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
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	Modelling of Electromagnetic Levitation - Consequences on Non-contact Physical Properties Measurements. High Temperature Materials and Processes, 2008, 27, 439-448.	1.4	17
100	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
101	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
102	A nonoverlapping domain decomposition method for nonlinear physical processes. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2140003-2140004.	0.2	1
103	Numerical simulation of flow-induced cavity noise in self-sustained oscillations. Computing and Visualization in Science, 2007, 10, 123-134.	1.2	4
104	A mathematical description of the acoustic coupling of the mass/spring model. Applied Mathematical Modelling, 2007, 31, 2684-2695.	4.2	1
105	Numerical Modelling for Electromagnetic Processing of Materials. Fluid Mechanics and Its Applications, 2007, , 357-374.	0.2	3
106	A DISTRIBUTED ALGORITHM FOR FLOW INDUCED ACOUSTICS. Journal of Computational Acoustics, 2006, 14, 131-141.	1.0	0
107	Microwave Modeling and Validation in Food Thawing Applications. Journal of Microwave Power and Electromagnetic Energy, 2006, 41, 30-45.	0.8	28
108	Experimental and numerical study of the cold crucible melting process. Applied Mathematical Modelling, 2006, 30, 1262-1280.	4.2	37

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109	Computational modelling of bubbles, droplets and particles in metals reduction and refining. Applied Mathematical Modelling, 2006, 30, 1445-1458.	4.2	20
110	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
111	Spatial variability of air pollution in the vicinity of a permanent monitoring station in central Paris. Atmospheric Environment, 2005, 39, 2725-2736.	4.1	96
112	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
113	A new computational approach to microwave heating of twoâ€phase porous materials. International Journal of Numerical Methods for Heat and Fluid Flow, 2004, 14, 783-802.	2.8	24
114	Modelling induction skull melting design modifications. Journal of Materials Science, 2004, 39, 7245-7251.	3.7	6
115	An acoustic correction method for extracting sound signals. Computers and Mathematics With Applications, 2004, 47, 57-69.	2.7	9
116	A finite volume unstructured mesh approach to dynamic fluidâ€“structure interaction: an assessment of the challenge of predicting the onset of flutter. Applied Mathematical Modelling, 2004, 28, 211-239.	4.2	47
117	Heat and mass transfer in two-phase porous materials under intensive microwave heating. Journal of Food Engineering, 2004, 65, 403-412.	5.2	87
118	Modelling air quality in street canyons: a review. Atmospheric Environment, 2003, 37, 155-182.	4.1	880
119	Evaluation of distortions in laser welded shipbuilding parts using local-global finite element approach. Science and Technology of Welding and Joining, 2003, 8, 79-88.	3.1	34
120	Modelling Electromagnetically Levitated Liquid Droplet Oscillations. ISIJ International, 2003, 43, 890-898.	1.4	74
121	Model sensitivity and uncertainty analysis using roadside air quality measurements. Atmospheric Environment, 2002, 36, 2121-2134.	4.1	55
122	A coarse grid extraction of sound signals for computational aeroacoustics. International Journal for Numerical Methods in Fluids, 2002, 40, 1515-1525.	1.6	1
123	Finite volume methods applied to the computational modelling of welding phenomena. Applied Mathematical Modelling, 2002, 26, 311-322.	4.2	47
124	An experimental and numerical CFD study of turbulence in a tundish container. Applied Mathematical Modelling, 2002, 26, 323-336.	4.2	12
125	Dynamic fluidâ€“structure interaction using finite volume unstructured mesh procedures. Computers and Structures, 2002, 80, 371-390.	4.4	76
126	Coupled 3â€”D 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

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127	A Defect Correction Method for Multi-Scale Problems in Computational Aeroacoustics. Lecture Notes in Computational Science and Engineering, 2002, , 147-156.	0.3	0
128	A domain decomposition algorithm for inverse welding problems. Computing and Visualization in Science, 2001, 4, 105-109.	1.2	1
129	Performance Evaluation of a Distributed Algorithm for an Inverse Heat Conduction Problem. Computer Journal, 2001, 44, 214-220.	2.4	1
130	On the coupling of Navierâ€“Stokes and linearised Euler equations for aeroacoustic simulation. Computing and Visualization in Science, 2000, 3, 9-12.	1.2	11
131	Consideration of heat transfer and solidification in 3-D MHD calculation. IEEE Transactions on Magnetics, 2000, 36, 1300-1304.	2.1	12
132	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
133	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
134	Three-dimensional free surface modelling in an unstructured mesh environment for metal processing applications. Applied Mathematical Modelling, 1998, 22, 895-906.	4.2	22
135	Mathematical modelling tools for the optimisation of direct smelting processes. Applied Mathematical Modelling, 1998, 22, 921-940.	4.2	11
136	Staggered-mesh computation for aerodynamic sound. , 1998, , .		0
137	Domain decomposition methods for some aerodynamic noise problems. , 1997, , .		2
138	A domain decomposition algorithm for viscous/inviscid coupling. Advances in Engineering Software, 1996, 26, 151-159.	3.8	5
139	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
140	The numerical modelling of DC electromagnetic pump and brake flow. Applied Mathematical Modelling, 1995, 19, 713-723.	4.2	35
141	FREE SURFACE FLOW AND HEAT TRANSFER IN CAVITIES: THE SEA ALGORITHM. Numerical Heat Transfer, Part B: Fundamentals, 1995, 27, 487-507.	0.9	28
142	Heat transfer in differentially heated nonâ€newtonian cavities. International Journal of Numerical Methods for Heat and Fluid Flow, 1994, 4, 229-248.	2.8	6
143	The CFD analysis of simple parabolic and elliptic MHD flows. Applied Mathematical Modelling, 1994, 18, 150-155.	4.2	17
144	NUMERICAL MODELLING OF CIRCULATING FLUIDIZED BEDS. International Journal of Computational Fluid Dynamics, 1993, 1, 161-176.	1.2	24

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145	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
146	Mathematical simulation of hydrocyclones. Applied Mathematical Modelling, 1987, 11, 242-255.	4.2	45
147	The hydrocyclone classifier â€" A numerical approach. International Journal of Mineral Processing, 1986, 17, 23-43.	2.6	65
148	Laminar and turbulent natural convection in an enclosed cavity. International Journal of Heat and Mass Transfer, 1984, 27, 755-772.	4.8	514
149	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
150	Simulation of the stencil printing process [solder pastes]. , 0, , .		9
151	An integrated approach to flow, thermal and mechanical modeling of electronics devices. , 0, , .		3
152	Mathematical modelling: a laser soldering process for an optoelectronics butterfly package. , 0, , .		4
153	Accuracy of turbulence models and CFD for thermal characterisation of electronic systems. , 0, , .		4
154	Turbulence modelling and it's impact on CFD predictions for cooling of electronic components. , 0, , .		12
155	Turbulence Modelling for Electronic Cooling: A Review. , 0, , .		4
156	Magnetic Levitation of a Large Mass of Liquid Metal. , 0, , .		0