

Brian G Thomas

List of Publications by Year in descending order

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204
papers

9,060
citations

31796

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g-index

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209
docs citations

209
times ranked

2874
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale and multi-physics simulation of central segregation in an equiaxed dendritic mushy zone during continuous casting of steel. <i>Materialia</i> , 2024, 33, 102003.	2.8	0
2	Optimizing steel coil production schedules under continuous casting and hot rolling. <i>European Journal of Operational Research</i> , 2023, , .	5.9	3
3	Pressure Distribution and Flow Rate Behavior in Continuous-Casting Slide-Gate Systems: PFSG. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 1661-1680.	2.2	6
4	Solid Boundary Output Feedback Control of The Stefan Problem: The Enthalpy Approach. <i>IEEE Transactions on Automatic Control</i> , 2022, , 1-16.	6.0	1
5	Modeling of Multiphase Flow, Superheat Dissipation, Particle Transport, and Capture in a Vertical and Bending Continuous Caster. <i>Processes</i> , 2022, 10, 1429.	2.8	6
6	Prediction of Thermal Distortion during Steel Solidification. <i>Metals</i> , 2022, 12, 1807.	2.4	3
7	Modeling of Inclusion Capture in a Steel Slab Caster with Vertical Section and Bending. <i>Metals</i> , 2021, 11, 654.	2.4	9
8	Feedback Control of the One-Phase Stefan Problem with Unknown Boundary Input Hysteresis. , 2021, , .		0
9	Air Gap Measurement During Steel-Ingot Casting and Its Effect on Interfacial Heat Transfer. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2224-2238.	2.2	12
10	Modeling Air Aspiration in Steel Continuous Casting Slide-Gate Nozzles. <i>Metals</i> , 2021, 11, 116.	2.4	14
11	Multiphysics modeling of continuous casting of stainless steel. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116469.	6.4	28
12	Investigating Dynamic Thermal Behavior of Continuous Casting of Steel with CONOFFLINE. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2917-2934.	2.2	1
13	Simulation of longitudinal surface defect in steel continuous casting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 861, 012016.	0.6	2
14	Enthalpy-based Output Feedback Control of the Stefan Problem with Hysteresis. , 2020, , .		7
15	Electromagnetic Effects on Solidification Defect Formation in Continuous Steel Casting. <i>Jom</i> , 2020, 72, 3610-3627.	2.2	20
16	Review of Peritectic Solidification Mechanisms and Effects in Steel Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1875-1903.	2.2	42
17	Grouping Methods of Cluster Dynamics Model for Precipitation Kinetics. <i>Metals</i> , 2020, 10, 1685.	2.4	1
18	Meso-scale simulation of liquid feeding in an equiaxed dendritic mushy zone. <i>Materialia</i> , 2020, 9, 100612.	2.8	7

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19	Multiphase Flow-Related Defects in Continuous Casting of Steel Slabs. Minerals, Metals and Materials Series, 2020, , 1161-1173.	0.0	8
20	Continuous Casting. , 2019, , .		0
21	Quenching and Partitioning of Plate Steels: Partitioning Design Methodology. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4701-4713.	2.2	12
22	Visualization of Steel Continuous Casting Including a New Integral Method for Postâ€­Processing Temperature Data. Steel Research International, 2019, 90, 1800540.	2.0	10
23	Mathematical Modeling of Multiphase Flow in Steel Continuous Casting. ISIJ International, 2019, 59, 956-972.	1.5	31
24	Electromagnetic Forces in Continuous Casting of Steel Slabs. Metals, 2019, 9, 471.	2.4	56
25	Dynamic Modeling of Unsteady Bulging in Continuous Casting of Steel. Minerals, Metals and Materials Series, 2019, , 23-35.	0.0	3
26	A 3D discrete-element model for simulating liquid feeding during dendritic solidification of steel. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012031.	0.6	2
27	Enthalpy-based Full-State Feedback Control of the Stefan Problem with Hysteresis. , 2019, , .		8
28	Effect of Melt Superheat and Alloy Size on the Mixing Phenomena in Argonâ€­Stirred Steel Ladles. Steel Research International, 2019, 90, 1800288.	2.0	11
29	Agglomeration of Solid Inclusions in Molten Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 36-41.	2.2	20
30	Effect of Nozzle Port Angle on Transient Flow and Surface Slag Behavior During Continuous Steel-Slab Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 52-76.	2.2	54
31	Large Eddy Simulations of Electromagnetic Braking Effects on Argon Bubble Transport and Capture in a Steel Continuous Casting Mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1360-1377.	2.2	39
32	A Hybrid Eulerianâ€­Eulerian Discrete-Phase Model of Turbulent Bubbly Flow. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.6	9
33	Modeling of Argon Gas Behavior in Continuous Casting of Steel. Minerals, Metals and Materials Series, 2018, , 119-131.	0.0	1
34	Review on Modeling and Simulation of Continuous Casting. Steel Research International, 2018, 89, 1700312.	2.0	166
35	Online Recalibration of the State Estimators for a System With Moving Boundaries Using Sparse Discrete-in-Time Temperature Measurements. IEEE Transactions on Automatic Control, 2018, 63, 1090-1096.	6.0	19
36	Bubble Behavior and Size Distributions in Stopper-Rod Nozzle and Mold during Continuous Casting of Steel Slabs. ISIJ International, 2018, 58, 1443-1452.	1.5	31

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37	Numerical Simulation of Turbulent Steel Cem® Mold Under High Mass Flow Condition. IOP Conference Series: Materials Science and Engineering, 2018, 424, 012033.	0.6	0
38	Fluid Flow, Dissolution, and Mixing Phenomena in Argon-Stirred Steel Ladles. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2722-2743.	2.2	38
39	Modeling Argon Gas Behavior in Continuous Casting of Steel. Jom, 2018, 70, 2148-2156.	2.2	19
40	Bang-Bang Free Boundary Control of a Stefan Problem for Metallurgical Length Maintenance. , 2018, , .		10
41	Large Eddy Simulations of the Effects of EMBr and SEN Submergence Depth on Turbulent Flow in the Mold Region of a Steel Caster. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 162-178.	2.2	28
42	Thermal-Mechanical Model of Depression Formation in Steel Continuous Casting. Minerals, Metals and Materials Series, 2017, , 501-510.	0.0	4
43	GPU accelerated simulations of three-dimensional flow of power-law fluids in a driven cube. International Journal of Computational Fluid Dynamics, 2017, 31, 36-56.	1.3	5
44	Effect of Grade on Thermal-Mechanical Behavior of Steel During Initial Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3777-3793.	2.2	17
45	Hybrid Eulerian Eulerian Discrete Phase Model of Turbulent Bubbly Flow. , 2017, , .		1
46	Online recalibration of the state estimators for a system with moving boundaries using sparse discrete-in-time temperature measurements. , 2016, , .		0
47	Rise of an argon bubble in liquid steel in the presence of a transverse magnetic field. Physics of Fluids, 2016, 28, .	3.9	37
48	Simulation of Heat Transfer in SLAB Continuous Casting Mold and New Formation Mechanism of Shell Hot Spots. , 2016, , 43-49.		0
49	Influence of Heavy Reduction (HR) on the Internal Quality of the Bearing Steel GCr15 Bloom. , 2016, , 247-254.		0
50	Thermo-mechanical behaviour during encapsulation of glass in a steel vessel. International Journal of Pressure Vessels and Piping, 2016, 146, 203-215.	2.7	4
51	Transient Two-Phase Flow in Slide-Gate Nozzle and Mold of Continuous Steel Slab Casting with and without Double-Ruler Electro-Magnetic Braking. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3080-3098.	2.2	34
52	Large Eddy Simulations of the Effects of Double-Ruler Electromagnetic Braking and Nozzle Submergence Depth on Molten Steel Flow in A Commercial Continuous Casting Mold. , 2016, , 159-166.		3
53	Large Eddy Simulations of the Effects of Double-Ruler Electromagnetic Braking and Nozzle Submergence Depth on Molten Steel Flow in a Commercial Continuous Casting Mold. Minerals, Metals and Materials Series, 2016, , 159-166.	0.0	1
54	A reduced-order model of mould heat transfer in the continuous casting of steel. Applied Mathematical Modelling, 2016, 40, 8530-8551.	4.3	15

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55	Modeling and Measurements of Multiphase Flow and Bubble Entrapment in Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 548-565.	2.2	48
56	Thermal Stress Cracking of Slide-Gate Plates in Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1453-1464.	2.2	7
57	Fluid Flow and Inclusion Motion in A Five-strand continuous casting tundish. , 2016, , 19-26.		0
58	Evolution of Temperature Distribution and Microstructure in Multipass Welded AISI 321 Stainless Steel Plates With Different Thicknesses. Journal of Pressure Vessel Technology, Transactions of the ASME, 2015, 137, .	0.7	16
59	Three-Dimensional Flow in a Driven Cavity Subjected to an External Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.6	12
60	Simulation and validation of two-phase turbulent flow and particle transport in continuous casting of steel slabs. IOP Conference Series: Materials Science and Engineering, 2015, 84, 012095.	0.6	7
61	Effect of Single-Ruler Electromagnetic Braking (EMBr) Location on Transient Flow in Continuous Casting. Journal for Manufacturing Science and Production, 2015, 15, 93-104.	0.1	9
62	Estimation of Time-Temperature-Transformation Diagrams of Mold Powder Slags from Thermo-analysis of Non-isothermal Crystallization. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 286-303.	2.2	3
63	Model of Gas Flow Through Porous Refractory Applied to an Upper Tundish Nozzle. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 388-405.	2.2	21
64	Measurements of Molten Steel Surface Velocity and Effect of Stopper-rod Movement on Transient Multiphase Fluid Flow in Continuous Casting. ISIJ International, 2014, 54, 2314-2323.	1.5	56
65	Transient Fluid Flow during Steady Continuous Casting of Steel Slabs: Part II. Effect of Double-Ruler Electro-Magnetic Braking. ISIJ International, 2014, 54, 855-864.	1.5	22
66	Particle Transport and Deposition in a Turbulent Square Duct Flow With an Imposed Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.6	5
67	Transport and Entrapment of Particles in Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 22-35.	2.2	101
68	Large Eddy Simulations of Double-Ruler Electromagnetic Field Effect on Transient Flow During Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1098-1115.	2.2	58
69	Transient Thermo-fluid Model of Meniscus Behavior and Slag Consumption in Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1842-1864.	2.2	51
70	Application of enthalpy-based feedback control methodology to the two-sided stefan problem. , 2014, , .		12
71	Looking into continuous casting mould. Ironmaking and Steelmaking, 2014, 41, 242-249.	2.0	36
72	Transient Fluid Flow during Steady Continuous Casting of Steel Slabs: Part I. Measurements and Modeling of Two-phase Flow. ISIJ International, 2014, 54, 845-854.	1.5	52

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73	Computational Modeling of Temperature, Flow, and Crystallization of Mold Slag During Double Hot Thermocouple Technique Experiments. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1264-1279.	2.2	39
74	Measuring heat transfer during spray cooling using controlled induction-heating experiments and computational models. Applied Mathematical Modelling, 2013, 37, 3181-3192.	4.3	14
75	Measurement of heat flux in dense air-mist cooling: Part I " A novel steady-state technique. Experimental Thermal and Fluid Science, 2013, 44, 147-160.	2.8	24
76	Measurement of heat flux in dense air-mist cooling: Part II " The influence of mist characteristics on steady-state heat transfer. Experimental Thermal and Fluid Science, 2013, 44, 161-173.	2.8	20
77	Effects of a Magnetic Field on Turbulent Flow in the Mold Region of a Steel Caster. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1201-1221.	2.2	46
78	Particle Transport in a Turbulent Square Duct Flow With an Imposed Magnetic Field. , 2013, , .		0
79	Enthalpy-based feedback control algorithms for the Stefan problem. , 2012, , .		37
80	Simulation of transient fluid flow in mold region during steel continuous casting. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012015.	0.6	7
81	Time Zone Analysis of "Curve for Inter-mixing during Ladle Change"Over. , 2012, , 335-342.		0
82	Effect of Thermal Buoyancy Force on the Flow, Temperature Distribution and Residence Time Distribution of Molten Steel in the Slab Casting Tundish. , 2012, , 327-334.		5
83	Modeling of Multiscale and Multiphase Phenomena in Material Processing. , 2012, , 147-161.		0
84	The Thermal Distortion of a Funnel Mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1156-1172.	2.2	19
85	Effect of Electromagnetic Ruler Braking (EMBr) on Transient Turbulent Flow in Continuous Slab Casting using Large Eddy Simulations. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 532-553.	2.2	95
86	Particle-Size-Grouping Model of Precipitation Kinetics in Microalloyed Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1079-1096.	2.2	14
87	Thermal"Mechanical Model Calibration with Breakout Shell Measurements in Continuous Steel Slab Casting. , 2012, , 355-362.		8
88	Transport and Entrapment of Particles in Steel Continuous Casting. , 2012, , 277-286.		3
89	Fluid Flow and Inclusion Removal in Multi"strand Tundish with Nozzleblockage. , 2012, , 311-318.		2
90	Multiphase Flow in a Steelmaking Converter Using an Unconventional Lance. , 2012, , 303-310.		0

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91	Measurement of Transient Meniscus Flow in Steel Continuous Casters and Effect of Electromagnetic Braking. , 2011, , 59-66.		5
92	Implementation of Temperature and Strain Microâ€”Sensors into a Casting Mold Surface. , 2011, , 127-134.		7
93	Analysis of the Transient Phenomena during Steel Continuous Casting through the Onâ€”line Detection Data. , 2011, , 155-162.		0
94	Measurement of Molten Steel Surface Velocity with SVC and Nail Dipping during Continuous Casting Process. , 2011, , 51-58.		8
95	Monitoring of Meniscus Thermal Phenomena with Thermocouples in Continuous Casting of Steel. , 2011, , 119-126.		9
96	Sensors for Onâ€”line Monitoring of Molten Metal Quality. , 2011, , 15-26.		1
97	New Sensors for the Velocity Measurement in Liquid Metal Processes. , 2011, , 43-50.		1
98	Implementation of a Realâ€”time Modelâ€”based Sprayâ€”cooling Control System for Steel Continuous Casting. , 2011, , 77-84.		3
99	Measurement of the Solidification Front inside a Metallurgical Reactor. , 2011, , 85-93.		3
100	Direct numerical simulations of transverse and spanwise magnetic field effects on turbulent flow in a 2:1 aspect ratio rectangular duct. Computers and Fluids, 2011, 51, 100-114.	2.6	15
101	Equilibrium Model of Precipitation in Microalloyed Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 524-539.	2.2	39
102	Real-Time, Model-Based Spray-Cooling Control System for Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 87-103.	2.2	88
103	Measuring Mechanical Behavior of Steel During Solidification: Modeling the SSCC Test. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 837-851.	2.2	15
104	Effect of Stopper-Rod Misalignment on Fluid Flow in Continuous Casting of Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 300-315.	2.2	30
105	Transient Turbulent Flow in a Liquid-Metal Model of Continuous Casting, Including Comparison of Six Different Methods. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 987-1007.	2.2	56
106	Modeling and Measurement of Residual Stresses in a Steel Vessel Containing Glass. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.5	4
107	Effect of refractory properties on initial bubble formation in continuous-casting nozzles. Metals and Materials International, 2010, 16, 501-506.	3.4	39
108	Feedback control of the two-phase Stefan problem, with an application to the continuous casting of steel. , 2010, , .		20

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109	Enhanced Latent Heat Method to Incorporate Superheat Effects into Fixed-Grid Multiphysics Simulations. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 396-413.	0.9	21
110	Direct numerical simulations of magnetic field effects on turbulent flow in a square duct. Physics of Fluids, 2010, 22, .	3.9	42
111	Multiphysics Model of Metal Solidification on the Continuum Level. Numerical Heat Transfer, Part B: Fundamentals, 2010, 58, 371-392.	0.9	36
112	Thermal-mechanical behaviour during initial solidification in continuous casting: steel grade effects. International Journal of Cast Metals Research, 2009, 22, 8-14.	1.1	22
113	Prediction and control of subsurface hooks in continuous cast ultra-low-carbon steel slabs. Ironmaking and Steelmaking, 2009, 36, 39-49.	2.0	27
114	Explicit coupled thermo-mechanical finite element model of steel solidification. International Journal for Numerical Methods in Engineering, 2009, 78, 1-31.	2.9	66
115	Direct Numerical Simulations of Magnetic Field Effects on Turbulent Duct Flows. , 2009, , .		0
116	Modeling of Hot Tearing and Other Defects in Casting Processes. , 2009, , 362-374.		3
117	Flow Control with Local Electromagnetic Braking in Continuous Casting of Steel Slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 94-107.	2.2	122
118	Three-Dimensional Numerical Study of Impinging Water Jets in Runout Table Cooling Processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 593-602.	2.2	33
119	Transient Mold Fluid Flow with Well- and Mountain-Bottom Nozzles in Continuous Casting of Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 870-884.	2.2	58
120	Thermo-mechanical models of steel solidification based on two elastic visco-plastic constitutive laws. Journal of Materials Processing Technology, 2008, 197, 408-418.	6.4	80
121	Effect of geometry on void formation in commercial electroplating of thin strips to copper. Surface and Coatings Technology, 2008, 202, 4153-4158.	4.9	4
122	Solidification and Particle Entrapment during Continuous Casting of Steel. Steel Research International, 2008, 79, 599-607.	2.0	51
123	Heat Transfer in Funnel-mould Casting: Effect of Plate Thickness. ISIJ International, 2008, 48, 1380-1388.	1.5	20
124	Modeling of Stress, Distortion, and Hot Tearing. , 2008, , 449-461.		6
125	Microstructure near corners of continuous-cast steel slabs showing three-dimensional frozen meniscus and hooks. Acta Materialia, 2007, 55, 6705-6712.	8.0	26
126	Investigation of Fluid Flow and Steel Cleanliness in the Continuous Casting Strand. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 63-83.	2.2	165

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127	Numerical simulation on inclusion transport in continuous casting mold. International Journal of Minerals, Metallurgy, and Materials, 2006, 13, 293-300.	0.2	7
128	Simulation of Microstructure and Behavior of Interfacial Mold Slag Layers in Continuous Casting of Steel. ISIJ International, 2006, 46, 660-669.	1.5	63
129	Measurement and Prediction of Lubrication, Powder Consumption, and Oscillation Mark Profiles in Ultra-low Carbon Steel Slabs. ISIJ International, 2006, 46, 1635-1644.	1.5	62
130	Large Inclusions in Plain-carbon Steel Ingots Cast by Bottom Teeming. ISIJ International, 2006, 46, 670-679.	1.5	63
131	MOULD SLAG PROPERTY MEASUREMENTS TO CHARACTERIZE CC MOULD "SHELL GAP PHENOMENA. Canadian Metallurgical Quarterly, 2006, 45, 79-94.	1.1	17
132	Micrograph evidence of meniscus solidification and sub-surface microstructure evolution in continuous-cast ultralow-carbon steels. Acta Materialia, 2006, 54, 1165-1173.	8.0	62
133	A new mechanism of hook formation during continuous casting of ultra-low-carbon steel slabs. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1597-1611.	2.2	84
134	Inclusion removal by bubble flotation in a continuous casting mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2006, 37, 361-379.	2.2	167
135	State of the art in the control of inclusions during steel ingot casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2006, 37, 733-761.	2.2	232
136	The visualization of defect formation during casting processes. Jom, 2006, 58, 16-18.	2.2	16
137	Efficient thermo-mechanical model for solidification processes. International Journal for Numerical Methods in Engineering, 2006, 66, 1955-1989.	2.9	72
138	Basic oxygen furnace based steelmaking processes and cleanliness control at Baosteel. Ironmaking and Steelmaking, 2006, 33, 129-139.	2.0	29
139	Transient Flow and Temperature Transport in Continuous Casting of Steel Slabs. Journal of Heat Transfer, 2005, 127, 807-807.	2.3	1
140	Study of Computational Issues in Simulation of Transient Flow in Continuous Casting. Steel Research International, 2005, 76, 33-43.	2.0	26
141	Numerical study of flow and heat transfer in a molten flux layer. International Journal of Heat and Fluid Flow, 2005, 26, 105-118.	2.4	17
142	The use of water cooling during the continuous casting of steel and aluminum alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 187-204.	2.2	98
143	Transient fluid flow and superheat transport in continuous casting of steel slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 801-823.	2.2	55
144	Investigation of strand surface defects using mould instrumentation and modelling. Ironmaking and Steelmaking, 2004, 31, 485-494.	2.0	41

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145	Study of transient flow and particle transport in continuous steel caster molds: Part I. Fluid flow. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 685-702.	2.2	99
146	Study of transient flow and particle transport in continuous steel caster molds: Part II. Particle transport. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 703-714.	2.2	83
147	Thermomechanical finite-element model of shell behavior in continuous casting of steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 1151-1172.	2.2	224
148	Computational and experimental study of turbulent flow in a 0.4-scale water model of a continuous steel caster. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 967-982.	2.2	74
149	Heat-transfer and solidification model of continuous slab casting: CON1D. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 685-705.	2.2	374
150	Modeling transient slag-layer phenomena in the shell/mold gap in continuous casting of steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 707-725.	2.2	98
151	Thermo-Mechanical Finite Element Model of Shell Behavior in the Continuous Casting of Steel. Key Engineering Materials, 2003, 233-236, 827-834.	0.2	4
152	Optimisation of narrow face water slot design for Siderar slab casting mould. Ironmaking and Steelmaking, 2003, 30, 235-239.	2.0	15
153	State of the Art in Evaluation and Control of Steel Cleanliness.. ISIJ International, 2003, 43, 271-291.	1.5	543
154	Plurisubharmonic Functions and the Structure of Complete Kähler Manifolds with Nonnegative Curvature. Journal of Differential Geometry, 2003, 64, 457.	1.0	51
155	Analysis of thermomechanical behaviour in billet casting with different mould corner radii. Ironmaking and Steelmaking, 2002, 29, 359-375.	2.0	50
156	Thermal and mechanical behavior of copper molds during thin-slab casting (I): Plant trial and mathematical modeling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 425-436.	2.2	55
157	Thermal and mechanical behavior of copper molds during thin-slab casting (II): Mold crack formation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 437-449.	2.2	34
158	Modeling of the continuous casting of steel—past, present, and future. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 795-812.	2.2	117
159	Mathematical Modeling of Iron and Steel Making Processes. Mathematical Modeling of Fluid Flow in Continuous Casting.. ISIJ International, 2001, 41, 1181-1193.	1.5	218
160	Mathematical Modeling of Iron and Steel Making Processes. Comparison of Four Methods to Evaluate Fluid Velocities in a Continuous Slab Casting Mold.. ISIJ International, 2001, 41, 1262-1271.	1.5	107
161	Simple model of microsegregation during solidification of steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1755-1767.	2.2	297
162	Turbulent flow of liquid steel and argon bubbles in slide-gate tundish nozzles: Part I. model development and validation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 253-267.	2.2	99

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163	Turbulent flow of liquid steel and argon bubbles in slide-gate tundish nozzles: Part II. Effect of operation conditions and nozzle design. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 269-284.	2.2	76
164	Bubble formation during horizontal gas injection into downward-flowing liquid. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 1143-1159.	2.2	128
165	Effects of clogging, argon injection, and continuous casting conditions on flow and air aspiration in submerged entry nozzles. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 707-722.	2.2	81
166	Continuous Casting. , 2001, , 1595-1598.		15
167	Continuous Casting: Complex Models. , 2001, , 1599-1609.		5
168	Modeling creep and fatigue of copper alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 2491-2502.	2.2	106
169	Modeling of inclusion removal in a tundish. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1999, 30, 639-654.	2.2	150
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