Given Names Deactivated Family Name

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Mathematical modeling of the isothermal impingement of liquid droplets in spraying processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1991, 22, 901-914.	1.0	228
2	Fluid flow, heat transfer, and solidification of molten metal droplets impinging on substrates: Comparison of numerical and experimental results. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 701-718.	0.5	160
3	A mathematical model of the spray deposition process. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1989, 20, 71-85.	1.4	137
4	Photovoltaic/thermal solar hybrid system with bifacial PV module and transparent plane collector. Solar Energy Materials and Solar Cells, 2007, 91, 1966-1971.	3.0	88
5	Laminar-turbulent transition in an electromagnetically levitated droplet. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 29-36.	1.0	61
6	The effect of particle size and morphology on the in-flight behavior of particles during high-velocity oxyfuel thermal spraying. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 525-535.	1.0	56
7	Plasma-particle interactions in plasma spraying systems. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 683-693.	0.5	53
8	Modeling of a DC Electric Arc Furnace. Heat Transfer from the Arc ISIJ International, 2000, 40, 1089-1097.	0.6	52
9	A numerical study of high-velocity oxygen fuel thermal spraying process. Part I: Gas phase dynamics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1609-1620.	1.1	39
10	Nanoindentation of BaTiO3: dislocation nucleation and mechanical twinning. Journal Physics D: Applied Physics, 2009, 42, 085502.	1.3	34
11	Physical Modelling of an Aluminium Degassing Operation with Rotating Impellers—A Comparative Hydrodynamic Analysis. Materials and Manufacturing Processes, 2010, 25, 581-591.	2.7	27
12	Characterization of local piezoelectric behavior of ferroelectric GeTe and Ge2Sb2Te5 thin films. Journal of Applied Physics, 2012, 112, 052018.	1.1	27
13	A comparison between two different numerical formulations of welding arc simulation. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 675-695.	0.8	26
14	Mechanism of crystallization of oxygen-doped amorphous Ge1Sb2Te4 thin films. Journal of Applied Physics, 2004, 96, 1040-1046.	1.1	26
15	Mathematical Modeling of Iron and Steel Making Processes. Modeling of a DC Electric Arc Furnace. Mixing in the Bath ISIJ International, 2001, 41, 1146-1155.	0.6	24
16	Mathematical modelling of high velocity oxygen fuel thermal spraying of nanocrystalline materials: an overview. Modelling and Simulation in Materials Science and Engineering, 2003, 11, R1-R31.	0.8	24
17	Mathematical Modeling of Fluid Flow in a Water Physical Model of an Aluminum Degassing Ladle Equipped with an Impeller-Injector. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 423-435.	1.0	24
18	Kinetic Study of the Competitive Growth Between Î,-Al2O3 and α-Al2O3 During the Early Stages of Oxidation of β-(Ni,Pt)Al Bond Coat Systems: Effects of Low Oxygen Partial Pressure and Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 726-738.	1.1	24

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19	Effect of HVOF Processing Parameters on the Properties of NiCoCrAlY Coatings by Design of Experiments. Journal of Thermal Spray Technology, 2014, 23, 950-961.	1.6	22
20	A Numerical Study of the Effects of Electromagnetic Stirring on the Distributions of Temperature and Oxygen Concentration in Silicon Doubleâ€Crucible Czochralski Processing. Journal of the Electrochemical Society, 1997, 144, 764-772.	1.3	21
21	First-principles investigation of the Al–Si–Sr ternary system: Ground state determination and mechanical properties. Intermetallics, 2012, 21, 31-44.	1.8	19
22	An analytical model to represent crystallization kinetics in materials with metastable phase formation. Journal of Non-Crystalline Solids, 2006, 352, 51-55.	1.5	18
23	Effects of VC additions on the mechanical properties of bimodal WC–Co HVOF thermal sprayed coatings measured by nanoindentation. International Journal of Refractory Metals and Hard Materials, 2015, 48, 167-178.	1.7	18
24	Convergence of a Hydraulic Solver with Pressure-Dependent Demands. Water Resources Management, 2014, 28, 1013-1031.	1.9	17
25	Industrial ecology—The need to rethink the materials cycle: Some problems, solutions, and opportunities in the materials field. Journal of Materials Research, 1995, 10, 2178-2196.	1.2	16
26	A comparison between different numerical formulations for welding arc representations. Journal of Materials Processing Technology, 2004, 155-156, 1634-1640.	3.1	16
27	Structural and electrical properties of Ge1Sb2Te4 face centered cubic phase. Journal of Applied Physics, 2008, 104, 103712.	1.1	16
28	Dielectric properties of Ge2Sb2Te5 phase-change films. Journal of Applied Physics, 2013, 113, .	1.1	16
29	Mathematical Modeling of High Velocity Oxygen Fuel Thermal Spraying: An Overview. Key Engineering Materials, 2001, 197, 1-26.	0.4	15
30	First Stages of Oxidation of Pt-Modified Nickel Aluminide Bond Coat Systems at Low Oxygen Partial Pressure. Oxidation of Metals, 2012, 78, 269-284.	1.0	15
31	Solidification kinetics of a near eutectic Al-Si alloy, unmodified and modified with Sr. Metals and Materials International, 2013, 19, 707-715.	1.8	15
32	Physical Modeling of Fluid Flow in Ladles of Aluminum Equipped with Impeller and Gas Purging For Degassing. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 974-983.	1.0	15
33	Mathematical modeling of vapor-plume focusing in electron-beam evaporation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1959-1966.	1.1	14
34	Novel Degasification Design for Aluminum Using an Impeller Degasification Water Physical Model. Materials and Manufacturing Processes, 2012, 27, 556-560.	2.7	14
35	Model for isothermal crystallization kinetics with metastable phase formation. Applied Physics Letters, 2003, 83, 4969-4971.	1.5	13
36	Mass Transfer Study of a Batch Aluminum Degassing Ladle with Multiple Designs of Rotating Impellers. Jom, 2018, 70, 2958-2967.	0.9	13

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37	Cavitation-induced nucleation of zirconium in low earth orbit. Applied Physics Letters, 1999, 74, 2711-2713.	1.5	12
38	Crystallization process in Ge2Sb2Te5 amorphous films. Vacuum, 2010, 84, 877-881.	1.6	12
39	Thermodynamics, lattice stability and defect structure of strontium silicides via first-principles calculations. Journal of Alloys and Compounds, 2009, 484, 822-831.	2.8	11
40	Order-of-magnitude scaling of the cathode region in an axisymmetric transferred electric arc. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 547-554.	1.0	10
41	Thermodynamic modeling of the Si–Sr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 550-556.	0.7	10
42	Mathematical Modeling of High Intensity Electric Arcs Burning in Different Atmospheres. ISIJ International, 2009, 49, 796-803.	0.6	10
43	Effects of the Modification of Processing Parameters on Mechanical Properties of HVOF Cr2C3-25NiCr Coatings. Journal of Thermal Spray Technology, 2015, 24, 938-946.	1.6	10
44	Electrochemical Corrosion of HVOF-Sprayed NiCoCrAlY Coatings in CO2-Saturated Brine. Journal of Thermal Spray Technology, 2016, 25, 1330-1343.	1.6	10
45	Mathematical Modeling of a DC Electric Arc-Dimensionless Representation of a DC Arc. ISIJ International, 2003, 43, 1167-1176.	0.6	9
46	Isothermal phase transformation kinetics in stoichiometric GeSbTe thin films. Journal of Non-Crystalline Solids, 2004, 345-346, 173-177.	1.5	9
47	Thermal Spray Deposition, Phase Stability and Mechanical Properties of La2Zr2O7/LaAlO3 Coatings. Journal of Thermal Spray Technology, 2017, 26, 1198-1206.	1.6	9
48	Numerical Analyses of Fluid Dynamics of an Atomization Configuration. Journal of Materials Research, 2002, 17, 156-166.	1.2	8
49	Mathematical modeling of a direct current electric arc: Part I. Analysis of the characteristics of a direct current arc. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 363-372.	1.0	8
50	Structural evolution of B2-NiAl synthesized by high-energy ball milling. Journal of Materials Science, 2013, 48, 265-272.	1.7	8
51	Crystallization kinetics of Ge–Sb–Te alloys with metastable phase formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 763-766.	2.6	7
52	Some perspectives on the mathematical modelling of materials processing operations. Modelling and Simulation in Materials Science and Engineering, 1994, 2, 809-828.	0.8	6
53	Crystallization and ferroelectric properties of Ge4Sb1Te5 films. Journal of Non-Crystalline Solids, 2010, 356, 3026-3031.	1.5	6
54	Structural and electrical properties of Germanium-doped Sb70Te30 eutectic thin films. Journal of Non-Crystalline Solids, 2011, 357, 1610-1614.	1.5	6

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55	Method to Cope with Zero Flows in Newton Solvers for Water Distribution Systems. Journal of Hydraulic Engineering, 2013, 139, 456-459.	0.7	6
56	Influence of dipole-dipole interactions on the angular dependence of ferromagnetic resonance spectra in arrays of Fe/FexOy core/shell nanocubes. European Physical Journal B, 2015, 88, 1.	0.6	6
57	Influence of Oxidation Treatments and Surface Finishing on the Electrochemical Behavior of Ni-20Cr HVOF Coatings. Journal of Materials Engineering and Performance, 2017, 26, 6064-6074.	1.2	6
58	Experimental Study of Mass Transfer Mechanisms for Solute Mixing in a Gasâ€Stirred Ladle Using the Particle Image Velocimetry and Planar Laserâ€Induced Fluorescence Techniques. Steel Research International, 2021, 92, 2100241.	1.0	6
59	Mathematical modeling of a direct current electric arc: Part II. Dimensionless representation of a direct current arc. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 373-380.	1.0	5
60	Study of the Isothermal Oxidation Process and Phase Transformations in B2-(Ni,Pt)Al/RENE-N5 System. Metals, 2016, 6, 208.	1.0	5
61	Ab initiostudy of the electronic, mechanical, and vibrational properties of different Al2Si2Sr crystalline phases. Physical Review B, 2011, 83, .	1.1	4
62	Particle density distribution in a pyramid-shaped quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1602-1607.	1.3	4
63	Surface oxidation of Ni20Cr/Cr3O2 composite processed by ball milling and HVOF thermal spraying. Vacuum, 2017, 144, 27-35.	1.6	4
64	Optimizing the Performance of a Dualâ€Injection Gasâ€Stirred Ladle Using Physical Modeling. Steel Research International, 2022, 93, .	1.0	4
65	Newton thermal analysis of unmodified and strontium modified Al-Si alloys. Metallic Materials, 2021, 51, 211-220.	0.2	1
66	Mathematical Modeling of Pottery Production in Different Industrial Furnaces. Journal of Materials Engineering and Performance, 2008, 17, 633-643.	1.2	0
67	Closure to "Method to Cope with Zero Flows in Newton Solvers for Water Distribution Systems―by Nikolai B. Gorev, Inna F. Kodzhespirov, Yuriy Kovalenko, Eugenio Prokhorov, and Gerardo Trapaga. Journal of Hydraulic Engineering, 2014, 140, 07014004.	0.7	О