

# Maciej Pietrzyk

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

172  
papers

1,632  
citations

19  
h-index

30  
g-index

194  
ext. papers

1,865  
ext. citations

2.7  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
172	Inverse Problem in Stochastic Approach to Modelling of Microstructural Parameters in Metallic Materials during Processing. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-15	1.1	0
171	Modelling of Phenomena <b>2022</b> , 9-79		
170	Preparation of Material Representation <b>2022</b> , 143-188		
169	Computational Methods <b>2022</b> , 81-141		
168	Examples of Multiscale Simulations <b>2022</b> , 189-218		
167	METHOD FOR HEAT TREATMENT OF THE RUNNING SURFACE OF THE HEAD OF THE PEARLITIC STEEL RAILS. <i>Journal of Metallic Materials</i> , <b>2021</b> , 73, 9-15	0	
166	Sensitivity analysis, identification and validation of the dislocation density-based model for metallic materials. <i>Metallurgical Research and Technology</i> , <b>2021</b> , 118, 317	0.9	0
165	Compositional heterogeneity in multiphase steels: Characterization and influence on local properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 827, 142078	5.3	2
164	Criterion for microcrack resistance of multi-phase steels based on property gradient maps. <i>CIRP Annals - Manufacturing Technology</i> , <b>2021</b> , 70, 243-246	4.9	1
163	Material characterization for numerical simulation of manufacturing of automotive part made of magnesium alloy. <i>Archives of Civil and Mechanical Engineering</i> , <b>2020</b> , 20, 1	3.4	3
162	Development and Application of the Statistically Similar Representative Volume Element for Numerical Modelling of Multiphase Materials. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 389-402	0.9	
161	Numerical simulation of manufacturing process chain for pearlitic and bainitic steel rails. <i>Archives of Civil and Mechanical Engineering</i> , <b>2020</b> , 20, 1	3.4	4
160	Model of phase transformations in steels subject to heating-cooling thermal cycles in continuous annealing line. <i>Canadian Metallurgical Quarterly</i> , <b>2019</b> , 58, 367-377	0.9	
159	Selection of the best phase transformation model for optimization of manufacturing processes of pearlitic steel rails. <i>Archives of Civil and Mechanical Engineering</i> , <b>2019</b> , 19, 535-546	3.4	7
158	Computer-Integrated Platform for Automatic, Flexible, and Optimal Multivariable Design of a Hot Strip Rolling Technology Using Advanced Multiphase Steels. <i>Metals</i> , <b>2019</b> , 9, 737	2.3	6
157	PREDICTION OF DISTRIBUTION OF MICROSTRUCTURAL PARAMETERS IN METALLIC MATERIALS DESCRIBED BY DIFFERENTIAL EQUATIONS WITH RECRYSTALLIZATION TERM. <i>International Journal for Multiscale Computational Engineering</i> , <b>2019</b> , 17, 361-371	2.4	4
156	Application of statistical representation of the microstructure to modeling of phase transformations in DP steels by solution of the diffusion equation. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 1847-1855	1.5	3

155	Problem of Identification of Phase Transformation Models Used in Simulations of Steels Processing. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 5725-5735	1.6	2
154	Digital material representation concept applied to investigation of local inhomogeneities during manufacturing of magnesium components for automotive applications. <i>International Journal of Materials Research</i> , <b>2017</b> , 108, 3-11	0.5	3
153	Selection of the optimization method for identification of phase transformation models for steels. <i>Materials and Manufacturing Processes</i> , <b>2017</b> , 32, 1248-1259	4.1	3
152	Sensitivity analysis on HPC systems with Scalarm platform. <i>Concurrency Computation Practice and Experience</i> , <b>2017</b> , 29, e4025	1.4	4
151	Perceptive Review of Ferrous Micro/Macro Material Models for Thermo-Mechanical Processing Applications. <i>Steel Research International</i> , <b>2017</b> , 88, 1700193	1.6	4
150	Modelling and optimization of the manufacturing chain for rails. <i>Procedia Engineering</i> , <b>2017</b> , 207, 2101-2106		7
149	ANALYSIS OF PREDICTIVE CAPABILITIES OF MULTISCALE PHASE TRANSFORMATION MODELS BASED ON THE NUMERICAL SOLUTION OF HEAT TRANSFER AND DIFFUSION EQUATIONS. <i>International Journal for Multiscale Computational Engineering</i> , <b>2017</b> , 15, 413-430	2.4	5
148	Time and length scale issues in numerical modelling of dynamic recrystallization based on the multi space cellular automata method. <i>Journal of Computational Science</i> , <b>2016</b> , 16, 98-113	3.4	18
147	Comparison of Numerical Simulation and Experiment for the Microstructure Development of a Cold-Rolled Multiphase Steel during Annealing. <i>Materials Science Forum</i> , <b>2016</b> , 854, 167-173	0.4	2
146	Experimental and Numerical Simulations of Phase Transformations Occurring During Continuous Annealing of DP Steel Strips. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 1481-1491	1.6	14
145	Numerical modeling and experimental identification of residual stresses in hot-rolled strips. <i>Archives of Civil and Mechanical Engineering</i> , <b>2016</b> , 16, 125-134	3.4	13
144	Sensitivity analysis of phase transformation model based on solution of diffusion equation. <i>Archives of Civil and Mechanical Engineering</i> , <b>2016</b> , 16, 186-192	3.4	1
143	Optimised recrystallisation model using multiobjective evolutionary and genetic algorithms and k-optimality approach. <i>Materials Science and Technology</i> , <b>2016</b> , 32, 366-374	1.5	8
142	Cellular automata model for prediction of crack initiation and propagation in hot forging tools. <i>Archives of Civil and Mechanical Engineering</i> , <b>2016</b> , 16, 437-447	3.4	6
141	Model-Based Approach To Study Hot Rolling Mills With Data Farming <b>2016</b> ,		2
140	Application of Metamodels to Identification of Metallic Materials Models. <i>Advances in Materials Science and Engineering</i> , <b>2016</b> , 2016, 1-20	1.5	2
139	Model of Curvature of Crankshaft Blank During Heat Treatment, Accounting for Phase Transformations. <i>Steel Research International</i> , <b>2016</b> , 87, 519-528	1.6	2
138	Effect of Carbon Distribution During the Microstructure Evolution of Dual-Phase Steels Studied Using Cellular Automata, Genetic Algorithms, and Experimental Strategies. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5890-5906	2.3	4

137	Computer system for identification of tool wear model in hot forging. <i>MATEC Web of Conferences</i> , <b>2016</b> , 80, 11006	0.3	2
136	Metamodelling with artificial neural networks by using high performance computing infrastructures <b>2016</b> ,		1
135	Perceptive comparison of mean and full field dynamic recrystallization models. <i>Archives of Civil and Mechanical Engineering</i> , <b>2016</b> , 16, 569-589	3.4	15
134	Metal forming beyond shaping: Predicting and setting product properties. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 629-653	4.9	111
133	Use of Artificial Intelligence in Classification of Mill Scale Defects. <i>Steel Research International</i> , <b>2015</b> , 86, 266-277	1.6	1
132	Development of the multi-scale model of cold rolling based on physical and numerical investigation of ferritic-pearlitic steels. <i>Archives of Civil and Mechanical Engineering</i> , <b>2015</b> , 15, 885-896	3.4	3
131	Sensitivity analysis for thickness uniformity of Al coating layer in extrusion of Mg/Al clad bar. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 80, 507-513	3.2	7
130	Physical and numerical modelling of backward extrusion of Mg alloy with Al coating. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 253-256	4.9	3
129	Optimization of Cellular Automata Model for the Heating of Dual-Phase Steel by Genetic Algorithm and Genetic Programming. <i>Materials and Manufacturing Processes</i> , <b>2015</b> , 30, 552-562	4.1	25
128	Identification of Multi-inclusion Statistically Similar Representative Volume Element for Advanced High Strength Steels by Using Data Farming Approach. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 924-933	1.6	6
127	Accounting for the Inhomogeneity of Deformation in Identification of Microstructure Evolution Model / NiejednorodnoŹdksztaŹenia W I Dentyfikacji Modelu Rozwoju Mikrostruktury. <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 3087-3094		1
126	Application of Numerical and Physical Simulation to Design of the Best Manufacturing Technology for Fasteners. <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 455-460		0
125	Effective strategies of metamodelling of industrial metallurgical processes. <i>Advances in Engineering Software</i> , <b>2015</b> , 89, 90-97	3.6	12
124	Validation of Cellular Automata Model of Dynamic Recrystallization. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 581-586	0.4	4
123	Identification Problem of Internal Variables Model of Material. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 1339-1344	0.4	0
122	Sensitivity Analysis of the Finite Difference 2-D Cellular Automata Model for Phase Transformation during Heating. <i>ISIJ International</i> , <b>2015</b> , 55, 285-292	1.7	10
121	Model Of Relaxation Of Residual Stresses In Hot-Rolled Strips. <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 1935-1940		3
120	Robust Multiscale Modelling Of Two-Phase Steels On Heterogeneous Hardware Infrastructures By Using Statistically Similar Representative Volume Element. <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 1973-1980		1

119	From High Accuracy to High Efficiency in Simulations of Processing of Dual-Phase Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 497-506	2.5	16
118	Numerical Modelling of Manufacturing of Lightweight Components [Selected Issues. <i>Procedia CIRP</i> , <b>2014</b> , 18, 232-237	1.8	
117	Discrete micro-scale cellular automata model for modelling phase transformation during heating of dual phase steels. <i>Archives of Civil and Mechanical Engineering</i> , <b>2014</b> , 14, 96-103	3.4	23
116	Conventional and Multiscale Modeling of Microstructure Evolution During Laminar Cooling of DP Steel Strips. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 5835-5851	2.3	9
115	Identification of ductile fracture criterion on basis of experimental data. <i>Canadian Metallurgical Quarterly</i> , <b>2014</b> , 53, 469-477	0.9	0
114	Selection of Parameters of the Heat Treatment Thermal Cycle for Rails with Respect to the Wear Resistance. <i>Steel Research International</i> , <b>2014</b> , 85, 1070-1082	1.6	4
113	Physical and Numerical Simulation of the Continuous Annealing of DP Steel Strips. <i>Steel Research International</i> , <b>2014</b> , 85, 99-111	1.6	15
112	Model of Residual Stresses in Hot-rolled Sheets with Taking into Account Relaxation Process and Phase Transformation. <i>Procedia Engineering</i> , <b>2014</b> , 81, 108-113		8
111	Model of Curvature of Crankshaft Blank during the Heat Treatment after Forging. <i>Procedia Engineering</i> , <b>2014</b> , 81, 498-503		7
110	NUMERICAL MODELING OF PHASE TRANSFORMATION IN DUAL PHASE (DP) STEEL AFTER HOT ROLLING AND LAMINAR COOLING. <i>International Journal for Multiscale Computational Engineering</i> , <b>2014</b> , 12, 397-410	2.4	11
109	Application of Sensitivity Analysis to Grid-Based Procedure Dedicated to Creation of SSRVE. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 364-377	0.9	1
108	Computer-Aided Design of Manufacturing Chain Based on Closed Die Forging for Hardly Deformable Cu-Based Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 3281-3302	2.3	0
107	Optimization as a support for design of hot rolling technology of dual phase steel strips <b>2013</b> ,		6
106	Computer Aided Design of Manufacturing of Anchors and Formulation of the Optimization Task for in Use Properties. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 372-382	0.4	
105	Experimental Validation of the Carbon Diffusion Model for Transformation of Ferritic-Pearlitic Microstructure into Austenite during Continuous Annealing of Dual Phase Steels. <i>Materials Science Forum</i> , <b>2013</b> , 762, 699-704	0.4	3
104	Computer System for Identification of Material Models on the Basis of Plastometric Tests. <i>Archives of Metallurgy and Materials</i> , <b>2013</b> , 58, 737-743		5
103	Application of statistically similar representative volume element in numerical simulations of crash box stamping. <i>Archives of Civil and Mechanical Engineering</i> , <b>2012</b> , 12, 126-132	3.4	15
102	Validation of a Model of Plastic Deformation of Niobium Microalloyed Steels in the Two-Phase Temperature Region. <i>Steel Research International</i> , <b>2012</b> , 83, 743-757	1.6	1

101	Numerical Modeling of Microstructure Evolution During Forging of Crank Shafts. <i>Steel Research International</i> , <b>2012</b> , 83, 808-816	1.6	6
100	Multi billet extrusion technology for manufacturing bi-layered components. <i>CIRP Annals - Manufacturing Technology</i> , <b>2012</b> , 61, 235-238	4.9	6
99	Computer Aided Design of Manufacturing of Fasteners - Selection of the Best Production Chain. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 157-162	0.4	2
98	Application of inverse analysis with metamodelling for identification of metal flow stress. <i>Canadian Metallurgical Quarterly</i> , <b>2012</b> , 51, 440-446	0.9	12
97	Microstructure evolution in metal forming processes <b>2012</b> ,		21
96	Computer aided development of the levelling technology for flat products. <i>CIRP Annals - Manufacturing Technology</i> , <b>2011</b> , 60, 291-294	4.9	29
95	Computer Aided Design of New Forging Technology for Crank Shafts. <i>Steel Research International</i> , <b>2011</b> , 82, 187-194	1.6	11
94	Analysis of the Stress Concentration in the Nanomultilayer Coatings Based on Digital Representation of the Structure. <i>Archives of Metallurgy and Materials</i> , <b>2011</b> , 56,		5
93	Model of Phase Transformation for Niobium Microalloyed Steels. <i>Archives of Metallurgy and Materials</i> , <b>2011</b> , 56,		2
92	Multiscale CAFE Modelling of Dynamic Recrystallization. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 2567-2572	2.5	3
91	Numerical Analysis of the Microstructure and Mechanical Properties Evolution during Equal Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1940-1945	0.4	
90	The Material Flow Analysis in the Modified Orbital Forging Technology. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 1622-1625	0.4	2
89	Identification of rheological models and boundary conditions in metal forming. <i>International Journal of Materials and Product Technology</i> , <b>2010</b> , 39, 388	1	3
88	Material flow analysis in the incremental forging technology. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 931-934	2	8
87	Finite-element simulation of temperature-dependent three-point bending process of glass. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 101, 651-656	4.1	1
86	Optimal design of manufacturing chain based on forging for copper alloys, with product properties being the objective function. <i>CIRP Annals - Manufacturing Technology</i> , <b>2010</b> , 59, 319-322	4.9	7
85	Internal Variable and Cellular Automata-Finite Element Models of Heat Treatment. <i>International Journal for Multiscale Computational Engineering</i> , <b>2010</b> , 8, 267-285	2.4	9
84	Development of the Multi-scale Analysis Model to Simulate Strain Localization Occurring During Material Processing. <i>Archives of Computational Methods in Engineering</i> , <b>2009</b> , 16, 287-318	7.8	28

83	Identification of Material Models of Nanocoatings System Using the Metamodeling Approach. <i>IFIP Advances in Information and Communication Technology</i> , <b>2009</b> , 319-330	0.5	1
82	The Stress Field Induced Diffusion. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 179-188	0.8	
81	Numerical solution of the diffusion equation with moving boundary applied to modelling of the austenite-ferrite phase transformation. <i>Computational Materials Science</i> , <b>2008</b> , 44, 783-791	3.2	19
80	Numerical identification of material model for CMn steel using micro-indentation test. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 369-375	1.5	11
79	Modelling of Fatigue Behaviour of Hard Multilayer Nanocoating System in Nanoimpact Test. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2008</b> , 137-159	0.4	2
78	Validation of Multi-scale Model Describing Microstructure Evolution in Steels. <i>Steel Research International</i> , <b>2008</b> , 79, 652-659	1.6	7
77	Multiscale model of dynamic recrystallization in hot rolling. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 69-72	2	4
76	Recent development in orbital forging technology. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 387-390	2	36
75	Tool for optimal design of manufacturing chain based on metal forming. <i>CIRP Annals - Manufacturing Technology</i> , <b>2008</b> , 57, 309-312	4.9	14
74	The Stress Field in Cu-Fe-Ni Diffusion Couples. <i>Defect and Diffusion Forum</i> , <b>2007</b> , 264, 47-54	0.7	3
73	Electro-Mechano-Chemistry; Transport Problem in Four Time Scales. <i>Solid State Phenomena</i> , <b>2007</b> , 129, 11-18	0.4	1
72	Comparison of the Strain Distribution Obtained from Multi Scale and Conventional Approaches to Modelling Extrusion. <i>Solid State Phenomena</i> , <b>2007</b> , 129, 25-30	0.4	
71	Multi-scale Finite Element Cellular Automata Simulation of Multi-step Cold Forging Operations. <i>Steel Research International</i> , <b>2007</b> , 78, 771-776	1.6	1
70	Inverse Analysis of Axisymmetrical Compression of HSLA Steel. <i>Steel Research International</i> , <b>2007</b> , 78, 546-553	1.6	1
69	Multi-scale rheological model for discontinuous phenomena in materials under deformation conditions. <i>Computational Materials Science</i> , <b>2007</b> , 38, 685-691	3.2	14
68	The validation of a multiscale rheological model of discontinuous phenomena during metal rolling. <i>Computational Materials Science</i> , <b>2007</b> , 41, 236-241	3.2	11
67	Complex Modelling Platform based on Digital Material Representation <b>2007</b> , 403-410		2
66	Three-dimensional interdiffusion under stress field in Fe-Ni-Cu alloys. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2006</b> , 27, 691-698	1	11

65	Identification of rheological parameters on the basis of plane strain compression tests on specimens of various initial dimensions. <i>Computational Materials Science</i> , <b>2006</b> , 35, 92-97	3.2	7
64	Analysis of Microstructure Evolution in the Forging Process of a Windmill Main Shaft. <i>Steel Research International</i> , <b>2006</b> , 77, 583-589	1.6	3
63	Rheological Model for Simulation of Hot rolling of New Generation Steel Strips for Automotive Applications. <i>Steel Research International</i> , <b>2006</b> , 77, 927-933	1.6	14
62	Inverse analysis for identification of rheological and friction models in metal forming. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2006</b> , 195, 6778-6798	5.7	90
61	Sensitivity analysis of quantitative fracture criterion based on the results of the SICO test. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 177, 296-299	5.3	6
60	Development of Technique for Identification of Phase Transformation Model Parameters on the Basis of Measurement of Dilatometric Effect-Direct Problem. <i>ISIJ International</i> , <b>2006</b> , 46, 147-154	1.7	4
59	New Possibilities of Achieving Ultrafine Grained Microstructure in Metals and Alloys Employing MaxStrain Technology. <i>Solid State Phenomena</i> , <b>2005</b> , 101-102, 43-48	0.4	13
58	Identification of Rheological Parameters on the Basis of Various Types of Compression and Tension Tests. <i>Steel Research International</i> , <b>2005</b> , 76, 131-137	1.6	16
57	Inverse Analysis of Tensile Tests. <i>Steel Research International</i> , <b>2005</b> , 76, 807-814	1.6	5
56	Flow stress model accounting for the strain localization during plastic deformation of metals. <i>CIRP Annals - Manufacturing Technology</i> , <b>2004</b> , 53, 235-238	4.9	10
55	Analysis of work hardening and recrystallization during the hot working of steel using a statistically based internal variable model. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 339, 1-9	5.3	72
54	An integrated computer model with applications for austenite-to-ferrite transformation during hot deformation of Nb-microalloyed steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2002</b> , 33, 1509-1520	2.3	11
53	Through-process modelling of microstructure evolution in hot forming of steels. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 125-126, 53-62	5.3	44
52	Identification of rheological parameters on the basis of various types of plastometric tests. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 125-126, 150-154	5.3	11
51	Identification of Rheological and Tribological Parameters <b>2002</b> , 227-258		3
50	Identification of Parameters in the History Dependent Constitutive Model for Steels. <i>CIRP Annals - Manufacturing Technology</i> , <b>2001</b> , 50, 161-164	4.9	15
49	Finite-element simulation of large plastic deformation. <i>Journal of Materials Processing Technology</i> , <b>2000</b> , 106, 223-229	5.3	18
48	Development of a Computer Code for the Interpretation of Results of Hot Plane Strain Compression Tests.. <i>ISIJ International</i> , <b>2000</b> , 40, 1230-1236	1.7	28



47	Prediction of mechanical properties of heavy forgings. <i>Journal of Materials Processing Technology</i> , <b>1998</b> , 80-81, 166-173	5-3	22
46	Modelling of the influence of thermomechanical processing of Nb-microalloyed steel on the resulting mechanical properties. <i>Journal of Materials Processing Technology</i> , <b>1998</b> , 80-81, 524-530	5-3	17
45	The Effect of Deformation in the Two-Phase Region of C-Mn and Microalloyed Steels on the Mechanical Behaviour of the Resulting Structure. <i>European Physical Journal Special Topics</i> , <b>1997</b> , 07, C3-397-C3-402		402
44	Modelling the Evolution of the Microstructure of a Nb Steel.. <i>ISIJ International</i> , <b>1996</b> , 36, 1094-1102	1-7	13
43	Thermal-diffusion finite element analysis of nitriding process for arc plasma surface hardening of steel. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 56, 412-421	5-3	4
42	A study of the effect of the thermomechanical history on the mechanical properties of a high niobium steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 208, 249-259	5-3	23
41	Parallel finite element calculation of plastic deformations on Exemplar SPP1000 and on networked workstations. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 60, 409-413	5-3	6
40	Inverse analysis applied to the evaluation of material parameters in the history dependent flow stress equation in hot forming of metals. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 60, 455-461	5-3	27
39	Use of the computer simulation to predict mechanical properties of C-Mn steel, after thermomechanical processing. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 60, 581-588	5-3	24
38	Modelling of plastic flow, heat transfer and microstructural evolution during rolling of eutectoid steel rods. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 60, 589-596	5-3	12
37	Evolution of the Microstructure in the Processes of Hot Compression and Drawing-Rolling.. <i>ISIJ International</i> , <b>1996</b> , 36, 1199-1207	1-7	4
36	Modelling of heat transfer, plastic flow and microstructural evolution during shape rolling. <i>Journal of Materials Processing Technology</i> , <b>1995</b> , 53, 159-166	5-3	24
35	Modelling the Thermomechanical and Microstructural Evolution During Rolling of a Nb HSLA Steel.. <i>ISIJ International</i> , <b>1995</b> , 35, 531-541	1-7	16
34	Influence of the lubricant on temperature distribution in the forging dies. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , <b>1995</b> , 66, 424-429		6
33	Simulation of the behaviour of voids in steel plates during hot rolling. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , <b>1995</b> , 66, 526-529		15
32	Die Shape Design and Evaluation of Microstructure Control in the Closed-die Axisymmetric Forging by Using FORGE2 Program.. <i>ISIJ International</i> , <b>1994</b> , 34, 755-760	1-7	12
31	Numerical simulation of the evolution of the microstructure in closed-die forging. <i>Journal of Materials Processing Technology</i> , <b>1994</b> , 42, 217-226	5-3	5
30	Efficient program for finite element calculations of plastic deformations in metal forming processes. <i>Journal of Materials Processing Technology</i> , <b>1994</b> , 45, 677-681	5-3	3

29	Some aspects of plastic deformation of metal alloys in partly liquid state. <i>Journal of Materials Processing Technology</i> , <b>1994</b> , 45, 365-370	5:3	2
28	Theoretical and experimental analysis of drawing of steel rods covered with copper. <i>Journal of Materials Processing Technology</i> , <b>1994</b> , 45, 401-406	5:3	1
27	Multistage compression of microalloyed steels - FE simulation and measurements of grain size. <i>Journal of Materials Processing Technology</i> , <b>1994</b> , 45, 509-514	5:3	5
26	Validation of the thermomechanical microstructural model for closed-die forging. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , <b>1994</b> , 65, 94-99		7
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