

Zheng-Yi Jiang

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285
papers

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310
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#	Paper	IF	Citations
285	Mechanical metamaterials associated with stiffness, rigidity and compressibility: A brief review. <i>Progress in Materials Science</i> , 2018 , 94, 114-173	42.2	334
284	Thermomechanical processing of advanced high strength steels. <i>Progress in Materials Science</i> , 2018 , 94, 174-242	42.2	166
283	A study of the tribological behaviour of TiO ₂ nano-additive water-based lubricants. <i>Tribology International</i> , 2017 , 109, 398-408	4.9	128
282	Stir casting process for manufacture of AlSiC composites. <i>Rare Metals</i> , 2017 , 36, 581-590	5.5	109
281	Modelling of the hot deformation behaviour of a titanium alloy using constitutive equations and artificial neural network. <i>Computational Materials Science</i> , 2014 , 92, 47-56	3.2	104
280	A review of modern advancements in micro drilling techniques. <i>Journal of Manufacturing Processes</i> , 2017 , 29, 343-375	5	90
279	Friction and wear characteristics of TiO ₂ nano-additive water-based lubricant on ferritic stainless steel. <i>Tribology International</i> , 2018 , 117, 24-38	4.9	90
278	Mechanical properties and tribological behavior of aluminum matrix composites reinforced with in-situ AlB ₂ particles. <i>Tribology International</i> , 2016 , 98, 41-47	4.9	70
277	Analysis of TiO ₂ nano-additive water-based lubricants in hot rolling of microalloyed steel. <i>Journal of Manufacturing Processes</i> , 2017 , 27, 26-36	5	45
276	3D FEM analysis of strip shape during multi-pass rolling in a 6-high CVC cold rolling mill. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 74, 1733-1745	3.2	45
275	Oxide scales growth of low-carbon steel at high temperatures. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1300-1306	5.3	45
274	Characteristics of oxide scale formed on ferritic stainless steels in simulated reheating atmosphere. <i>Surface and Coatings Technology</i> , 2014 , 258, 257-267	4.4	44
273	Effects of temperature and strain rate on microstructure and mechanical properties of high chromium cast iron/low carbon steel bimetal prepared by hot diffusion-compression bonding. <i>Materials & Design</i> , 2014 , 63, 650-657		41
272	Effects of tungsten on the hydrogen embrittlement behaviour of microalloyed steels. <i>Corrosion Science</i> , 2014 , 82, 380-391	6.8	39
271	High temperature oxide scale characteristics of low carbon steel in hot rolling. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1307-1312	5.3	38
270	Tribological Performance and Lubrication Mechanism of Alumina Nanoparticle Water-Based Suspensions in Ball-on-Three-Plate Testing. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	37
269	Processing, characterisation and electromechanical behaviour of elastomeric multiwall carbon nanotubes-poly (glycerol sebacate) nanocomposites for piezoresistive sensors applications. <i>Composites Science and Technology</i> , 2017 , 142, 163-170	8.6	36

268	Breakaway oxidation behaviour of ferritic stainless steels at 1150°C in humid air. <i>Corrosion Science</i> , 2016 , 108, 11-22	6.8	36
267	Enhancing impact fracture toughness and tensile properties of a microalloyed cast steel by hot forging and post-forging heat treatment processes. <i>Materials & Design</i> , 2013 , 47, 227-233		36
266	The pH-dependent structural and tribological behaviour of aqueous graphene oxide suspensions. <i>Tribology International</i> , 2017 , 116, 460-469	4.9	35
265	Surface characteristics of oxide scale in hot strip rolling. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 76-83	5.3	35
264	Synthesis of highly-stretchable graphene/poly(glycerol sebacate) elastomeric nanocomposites piezoresistive sensors for human motion detection applications. <i>Composites Science and Technology</i> , 2018 , 162, 14-22	8.6	34
263	Modeling and analysis of dry friction in micro-forming of metals. <i>Tribology International</i> , 2013 , 57, 202-209	4.9	34
262	Micromanufacturing of composite materials: a review. <i>International Journal of Extreme Manufacturing</i> , 2019 , 1, 012004	7.9	32
261	Tailoring the wettability and mechanical properties of electrospun poly(L-lactic acid)-poly(glycerol sebacate) core-shell membranes for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 87-94	9.3	32
260	Grain size effect of thickness/average grain size on mechanical behaviour, fracture mechanism and constitutive model for phosphor bronze foil. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 79, 1905-1914	3.2	31
259	Analysis of oil-in-water based nanolubricants with varying mass fractions of oil and TiO ₂ nanoparticles. <i>Wear</i> , 2018 , 396-397, 162-171	3.5	31
258	Enhancing mechanical properties of a low-carbon microalloyed cast steel by controlled heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 427-435	5.3	31
257	Oxide scale characterization of ferritic stainless steel and its deformation and friction in hot rolling. <i>Tribology International</i> , 2015 , 84, 61-70	4.9	30
256	High temperature oxidation behaviour of ferritic stainless steel SUS 430 in humid air. <i>Metals and Materials International</i> , 2015 , 21, 251-259	2.4	29
255	Effects of hydrogen on the hot deformation behaviour of Ti ₆ Al ₄ V alloy: Experimental and constitutive model studies. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 407-414	5.7	29
254	Numerical analysis and experimental investigation into the effects of manufacturing errors on the running accuracy of the aerostatic porous spindle. <i>Tribology International</i> , 2018 , 118, 20-36	4.9	28
253	Graphene encapsulated SiC nanoparticles as tribology-favoured nanofillers in aluminium composite. <i>Composites Part B: Engineering</i> , 2019 , 162, 445-453	10	28
252	An analysis of ridging of ferritic stainless steel 430. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 358-366	5.3	27
251	Effects of oil-in-water based nanolubricant containing TiO ₂ nanoparticles on the tribological behaviour of oxidised high-speed steel. <i>Tribology International</i> , 2017 , 110, 77-85	4.9	27

250	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	27
249	Modeling of the inlet zone in the mixed lubrication situation of cold strip rolling. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 569-575	5.3	27
248	Simulation of crack healing in BCC Fe. <i>Scripta Materialia</i> , 2004 , 51, 583-587	5.6	26
247	Synergistic tribological performance of a water based lubricant using graphene oxide and alumina hybrid nanoparticles as additives. <i>Tribology International</i> , 2019 , 135, 170-180	4.9	26
246	In Situ synthesis of SiC-graphene core-shell nanoparticles using wet ball milling. <i>Ceramics International</i> , 2018 , 44, 8283-8289	5.1	25
245	Effect of a grain-refined microalloyed steel substrate on the formation mechanism of a tight oxide scale. <i>Corrosion Science</i> , 2014 , 85, 115-125	6.8	25
244	Effect of directional solidification rate on the microstructure and properties of deformation-processed Cu $\bar{\bar{C}}$ Cr $\bar{\bar{0}}$.1Ag in situ composites. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 221-226	5.7	24
243	Tribological properties of magnetite precipitate from oxide scale in hot-rolled microalloyed steel. <i>Wear</i> , 2013 , 302, 1286-1294	3.5	24
242	Tribological behavior in microsheet hydroforming. <i>Tribology International</i> , 2016 , 97, 302-312	4.9	24
241	Effects of oil-in-water based nanolubricant containing TiO ₂ nanoparticles in hot rolling of 304 stainless steel. <i>Journal of Materials Processing Technology</i> , 2018 , 262, 149-156	5.3	24
240	Effect of water-based nanolubricant containing nano-TiO ₂ on friction and wear behaviour of chrome steel at ambient and elevated temperatures. <i>Wear</i> , 2019 , 426-427, 792-804	3.5	23
239	Analysis of the microstructure, texture and magnetic properties of strip casting 4.5wt.% Si non-oriented electrical steel. <i>Materials and Design</i> , 2015 , 85, 455-460	8.1	23
238	A design of a third-order CVC roll profile. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 645-648	5.9	23
237	Microstructure and microtexture evolutions of deformed oxide layers on a hot-rolled microalloyed steel. <i>Corrosion Science</i> , 2015 , 90, 140-152	6.8	22
236	Research on the Improvement Effect of High Tension on Flatness Deviation in Cold Strip Rolling. <i>Steel Research International</i> , 2014 , 85, 1560-1570	1.6	22
235	Effects of surface roughness on micro deep drawing of circular cups with consideration of size effects. <i>Finite Elements in Analysis and Design</i> , 2016 , 111, 46-55	2.2	21
234	Analysis of micro flexible rolling with consideration of material heterogeneity. <i>International Journal of Mechanical Sciences</i> , 2016 , 105, 182-190	5.5	20
233	Influence of Nb, V and Ti on peak strain of deformed austenite in Mo-based micro-alloyed steels. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 72-76	5.3	20

232	Microstructure and hot deformation behaviour of high-carbon steel/low-carbon steel bimetal prepared by centrifugal composite casting. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 817-827	3.2	19
231	Multi-factor coupling system characteristic of the dynamic roll gap in the high-speed rolling mill during the unsteady lubrication process. <i>Tribology International</i> , 2013 , 67, 174-181	4.9	19
230	Wear and friction behaviour of high-speed steel and indefinite chill material for rolling ferritic stainless steels. <i>Wear</i> , 2017 , 376-377, 1580-1585	3.5	19
229	Influences of temperature and grain size on the material deformability in microforming process. <i>International Journal of Material Forming</i> , 2017 , 10, 753-764	2	19
228	The application of fungal β -glucans for the treatment of colon cancer. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013 , 13, 725-30	2.2	19
227	Microstructure and tribological behaviour of alumina composites reinforced with SiC-graphene core-shell nanoparticles. <i>Tribology International</i> , 2019 , 131, 94-101	4.9	19
226	Admissibilisation of singular interval type-2 Takagi-Sugeno fuzzy systems with time delay. <i>IET Control Theory and Applications</i> , 2020 , 14, 1022-1032	2.5	18
225	Effects of Nano-TiO ₂ Additive in Oil-in-Water Lubricant on Contact Angle and Antiscratch Behavior. <i>Tribology Transactions</i> , 2017 , 60, 362-372	1.8	17
224	Performance Evaluation and Lubrication Mechanism of Water-Based Nanolubricants Containing Nano-TiO ₂ in Hot Steel Rolling. <i>Lubricants</i> , 2018 , 6, 57	3.1	17
223	Analysis of premature failure of work rolls in a cold strip plant. <i>Wear</i> , 2007 , 263, 1442-1446	3.5	17
222	Thermal Stability and Properties of Deformation-Processed Cu-Fe In Situ Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2255-2261	2.3	16
221	Effects of rolling processes on ridging generation of ferritic stainless steel. <i>Materials Characterization</i> , 2018 , 137, 201-211	3.9	16
220	Effect of multi-walled carbon nanotubes on the cross-linking density of the poly(glycerol sebacate) elastomeric nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2018 , 521, 24-32	9.3	16
219	Optimisation of Size-controllable Centroidal Voronoi Tessellation for FEM Simulation of Micro Forming Processes. <i>Procedia Engineering</i> , 2014 , 81, 2409-2414		16
218	Effect of initial crown on shape of hot rolled strip. <i>Journal of Iron and Steel Research International</i> , 2009 , 16, 32-34	1.2	16
217	Modelling of Thin Strip Cold Rolling With Friction Variation by A 3-D Finite Element Method. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2003 , 46, 218-223		16
216	Machining characteristics and mechanism of GO/SiO ₂ nanoslurries in fixed abrasive lapping. <i>Journal of Materials Processing Technology</i> , 2020 , 277, 116444	5.3	16
215	Numerical and experimental investigation on the forming behaviour of stainless/carbon steel bimetal composite. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 1075-1083	3.2	16

214	Flow behaviour and constitutive modelling of a ferritic stainless steel at elevated temperatures. <i>Metals and Materials International</i> , 2016 , 22, 474-487	2.4	15
213	Analysis and characterisation of WC-10Co and AISI 4340 steel bimetal composite produced by powder-solid diffusion bonding. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 3247-3263	3.2	14
212	Novel water-based nanolubricant with superior tribological performance in hot steel rolling. <i>International Journal of Extreme Manufacturing</i> , 2020 , 2, 025002	7.9	14
211	The role of oxide-scale microtexture on tribological behaviour in the nanoparticle lubrication of hot rolling. <i>Tribology International</i> , 2016 , 93, 190-201	4.9	14
210	Analysis of bending characteristics of bimetal steel composite. <i>International Journal of Mechanical Sciences</i> , 2018 , 148, 272-283	5.5	14
209	Effects of hydraulic pressure on wrinkling and earing in micro hydro deep drawing of SUS304 circular cups. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 189-197	3.2	14
208	Effect of Extreme Pressure Additives on the Deformation Behavior of Oxide Scale during the Hot Rolling of Ferritic Stainless Steel Strips. <i>Tribology Transactions</i> , 2015 , 58, 947-954	1.8	13
207	Investigation of oxide scale on ferritic stainless steel B445J1M and its tribological effect in hot rolling. <i>Wear</i> , 2015 , 338-339, 178-188	3.5	13
206	Effect of Heat Treatment on the Microstructure and Properties of Deformation-Processed Cu-7Cr In Situ Composites. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4340-4345	1.6	13
205	Texture, microstructure and microhardness evolution of a hot-rolled high chromium cast iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6251-6254	5.3	13
204	Analysis of sintering and bonding of ultrafine WC powder and stainless steel by hot compaction diffusion bonding. <i>Fusion Engineering and Design</i> , 2018 , 133, 39-50	1.7	13
203	Lubrication characterisation analysis of stainless steel foil during micro rolling. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 65-73	3.2	12
202	Study on growth behaviour of oxide scale and its effects on tribological property of nano-TiO ₂ additive oil-in-water lubricant. <i>Wear</i> , 2017 , 376-377, 792-802	3.5	12
201	Interface analysis and hot deformation behaviour of a novel laminated composite with high-Cr cast iron and low carbon steel prepared by hot compression bonding. <i>Journal of Iron and Steel Research International</i> , 2015 , 22, 438-445	1.2	12
200	Effect of extreme pressure agents on the anti-scratch behaviour of high-speed steel material. <i>Tribology International</i> , 2015 , 81, 19-28	4.9	12
199	Crystal Plasticity Finite Modelling of 3D Surface Asperity Flattening in Uniaxial Planar Compression. <i>Tribology Letters</i> , 2012 , 46, 101-112	2.8	12
198	Analysis of Microstructure Effects on Edge Crack of Thin Strip During Cold Rolling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011 , 42, 1244-1252	2.5	12
197	Deformation of oxide scale and surface roughness transfer during hot rolling of stainless steel 304L. <i>International Journal of Surface Science and Engineering</i> , 2009 , 3, 459	1	12

196	In-Situ Observation of Martensitic Transformation in a Fe _{0.9} Mn _{0.1} Si Bainitic Steel During Austempering. <i>Metals and Materials International</i> , 2020 , 26, 961-972	2.4	12
195	Effect of Ni Addition on Bainite Transformation and Properties in a 2000 MPa Grade Ultrahigh Strength Bainitic Steel. <i>Metals and Materials International</i> , 2018 , 24, 1202-1212	2.4	12
194	Influences of micro-friction on surface finish in micro deep drawing of SUS304 cups. <i>Wear</i> , 2017 , 374-375, 36-45	3.5	11
193	Effects of grain boundaries in oxide scale on tribological properties of nanoparticles lubrication. <i>Wear</i> , 2015 , 332-333, 1286-1292	3.5	11
192	Understanding the role of water-based nanolubricants in micro flexible rolling of aluminium. <i>Tribology International</i> , 2020 , 151, 106378	4.9	11
191	Effects of tungsten on continuous cooling transformation characteristics of microalloyed steels. <i>Materials & Design</i> , 2013 , 49, 252-258		11
190	Effects of tungsten addition and heat treatment conditions on microstructure and mechanical properties of microalloyed forging steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 144-151	5.3	11
189	Superomniphilic Poly(glycerol sebacate)/Poly(L-lactic acid) Electrospun Membranes for Oil Spill Remediation. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700484	4.6	11
188	Hydrogen-induced hardening of Ti ₆ Al ₄ V alloy in β phase field. <i>Materials & Design</i> , 2014 , 54, 967-972		11
187	Transformation Behavior and Properties of Carbide-Free Bainite Steels with Different Si Contents. <i>Steel Research International</i> , 2019 , 90, 1800474	1.6	11
186	Transformation Behavior of Bainite during Two-step Isothermal Process in an Ultrafine Bainite Steel. <i>ISIJ International</i> , 2018 , 58, 1875-1882	1.7	11
185	A Comprehensive Review of Water-Based Nanolubricants. <i>Lubricants</i> , 2021 , 9, 89	3.1	11
184	Analysis of laminated crack defect in the upsetting process of heavy disk-shaped forgings. <i>Engineering Failure Analysis</i> , 2016 , 59, 197-210	3.2	10
183	Developing a self-piercing riveting with flange pipe rivet joining aluminum sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 2315-2328	3.2	10
182	Effects of Ni and Cr on Cryogenic Impact Toughness of Bainite/Martensite Multiphase Steels. <i>Metals and Materials International</i> , 2019 , 25, 1151-1160	2.4	10
181	Non-fragile guaranteed-performance H _∞ leader-following consensus of Lipschitz nonlinear multi-agent systems with switching topologies. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020 , 38, 100913	4.5	10
180	Microstructural evolution of hybrid aluminum matrix composites reinforced with SiC nanoparticles and graphene/graphite prepared by powder metallurgy. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 192-199	3.6	10
179	Finite Element Method Analysis of Micro Cross Wedge Rolling of Metals. <i>Procedia Engineering</i> , 2014 , 81, 2463-2468		10

178	Effects of Tungsten Addition on the Microstructure and Mechanical Properties of Microalloyed Forging Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3511-3523	2.3	10
177	Study on springback in micro V-bending with consideration of grain heterogeneity. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 78, 1075-1085	3.2	10
176	Effect of thermomechanical treatment on sliding wear of high-Cr cast iron with large plastic deformation. <i>Tribology International</i> , 2015 , 92, 117-125	4.9	10
175	Modelling of the evolution of crack of nanoscale in iron. <i>Computational Materials Science</i> , 2013 , 69, 270-277	3.7	10
174	Advances in Ladle Shroud as A Functional Device in Tundish Metallurgy: A Review. <i>ISIJ International</i> , 2019 , 59, 1167-1177	1.7	9
173	Adhesion, friction and wear analysis of a chromium oxide scale on a ferritic stainless steel. <i>Wear</i> , 2019 , 426-427, 1212-1221	3.5	9
172	Local strain analysis of the tertiary oxide scale formed on a hot-rolled steel strip via EBSD. <i>Surface and Coatings Technology</i> , 2015 , 277, 151-159	4.4	9
171	Shear-Out Capacity of Bolted Connections in Cold-Reduced Steel Sheets. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020018	3	9
170	A Comparative Study of Fluid Flow and Mass Transfer in a Trumpet-Shaped Ladle Shroud Using Large Eddy Simulation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 495-507	2.5	9
169	Numerical analysis of the dynamic performance of aerostatic thrust bearings with different restrictors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019 , 233, 406-423	1.4	9
168	Fabrication and properties of strip casting 4.5 wt% Si steel thin sheet. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 424, 64-68	2.8	9
167	Experimental and numerical study on micro deep drawing with aluminium-copper composite material. <i>Procedia Engineering</i> , 2017 , 207, 1051-1056		9
166	Analysis of flow behaviour and strain partitioning mechanism of bimetal composite under hot tensile conditions. <i>International Journal of Mechanical Sciences</i> , 2020 , 169, 105317	5.5	9
165	Influence of hot compressive parameters on flow behaviour and microstructure evolution in a commercial medium carbon micro-alloyed spring steel. <i>Journal of Manufacturing Processes</i> , 2020 , 58, 1171-1181	5	9
164	Influence of Cr-Rich Oxide Scale on Sliding Wear Mechanism of Ferritic Stainless Steel at High Temperature. <i>Tribology Letters</i> , 2016 , 63, 1	2.8	9
163	Consensus Tracking of Data-Sampled Nonlinear Multi-Agent Systems With Packet Loss and Communication Delay. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 126-137	4.9	9
162	Study on edge cracking of copper foils in micro rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 747, 53-62	5.3	8
161	Effect of austenisation temperature on bainite transformation below martensite starting temperature. <i>Materials Science and Technology</i> , 2019 , 35, 1539-1550	1.5	8

160	Eco-Friendly Water-Based Nanolubricants for Industrial-Scale Hot Steel Rolling. <i>Lubricants</i> , 2020 , 8, 96	3.1	8
159	Interfacial characteristics and mechanical properties of duplex stainless steel bimetal composite by heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 787, 139513	5.3	8
158	Effects of Hydrogen on the Critical Conditions for Dynamic Recrystallization of Titanium Alloy During Hot Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4932-4945	2.3	8
157	Simulations of hydro-mechanical deep drawing using Voronoi model and real microstructure model. <i>Procedia Engineering</i> , 2017 , 207, 1033-1038		8
156	Crystallographic Texture Based Analysis of Fe ₃ O ₄ /Fe ₂ O ₃ Scale Formed on a Hot-rolled Microalloyed Steel. <i>ISIJ International</i> , 2015 , 55, 278-284	1.7	8
155	Crystal plasticity finite element modelling of the effect of friction on surface asperity flattening in cold uniaxial planar compression. <i>Applied Surface Science</i> , 2015 , 359, 236-244	6.7	8
154	Water-based nanosuspensions: Formulation, tribological property, lubrication mechanism, and applications. <i>Journal of Manufacturing Processes</i> , 2021 , 71, 625-644	5	8
153	A Comparison of Hot Deformation Behavior of High-Cr White Cast Iron and High-Cr White Cast Iron/Low Carbon Steel Laminate. <i>Steel Research International</i> , 2016 , 87, 780-788	1.6	8
152	Study of micro flexible rolling based on grained inhomogeneity. <i>International Journal of Mechanical Sciences</i> , 2017 , 123, 324-339	5.5	7
151	Analysis of surface roughness evolution of ferritic stainless steel using crystal plasticity finite element method. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3175-3187	5.5	7
150	Surface asperity evolution and microstructure analysis of Al 6061T5 alloy in a quasi-static cold uniaxial planar compression (CUPC). <i>Applied Surface Science</i> , 2015 , 347, 193-201	6.7	7
149	Micro-hydromechanical deep drawing of metal cups with hydraulic pressure effects. <i>Frontiers of Mechanical Engineering</i> , 2018 , 13, 66-73	3.3	7
148	Evaluation and optimisation of micro flexible rolling process parameters by orthogonal trial design. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 143-156	3.2	7
147	Microtexture based analysis of surface asperity flattening behavior of annealed aluminum alloy in uniaxial planar compression. <i>Tribology International</i> , 2013 , 66, 282-288	4.9	7
146	Formability of Micro Sheet Hydroforming of Ultra-fine Grained Stainless Steel. <i>Procedia Engineering</i> , 2014 , 81, 1463-1468		7
145	Thermal, Microstructural and Mechanical Coupling Analysis Model for Flatness Change Prediction During Run-Out Table Cooling in Hot Strip Rolling. <i>Journal of Iron and Steel Research International</i> , 2012 , 19, 43-51	1.2	7
144	Modeling uniaxial tensile deformation of polycrystalline Al using CPFEM. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008 , 15, 43-47		7
143	Effects of micro flexible rolling and annealing on microstructure, microhardness and texture of aluminium alloy. <i>Materials Characterization</i> , 2019 , 148, 142-155	3.9	7

142	Roughness-dependent tribological characteristics of water-based GO suspensions with ZrO ₂ and TiO ₂ nanoparticles as additives. <i>Tribology International</i> , 2021 , 161, 107073	4.9	7
141	Micro extrusion of ultrafine grained titanium prepared by ECAP. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 437-443	1	6
140	Effects of nano-particle lubrication on micro deep drawing of Mg-Li alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4409-4419	3.2	6
139	Experimental investigation on the mechanical and tribological coupled behaviour of bimetal composite under different states. <i>Surface Topography: Metrology and Properties</i> , 2019 , 7, 025015	1.5	6
138	The effects of vacuum annealing temperatures on the microstructure, mechanical properties and electrical resistivity of Mg ₃ Al ₂ Zn alloy ribbons. <i>Vacuum</i> , 2015 , 115, 80-84	3.7	6
137	Dependence of texture development on the grain size of tertiary oxide scales formed on a microalloyed steel. <i>Surface and Coatings Technology</i> , 2015 , 272, 39-49	4.4	6
136	Cu-7Cr-0.1Ag Microcomposites Optimized for High Strength and High Conductivity. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 933-938	1.6	6
135	An experimental and numerical study of micro deep drawing of SUS304 circular cups. <i>Manufacturing Review</i> , 2015 , 2, 27	1.4	6
134	Effect of Mesh on Springback in 3D Finite Element Analysis of Flexible Microrolling. <i>Journal of Applied Mathematics</i> , 2015 , 2015, 1-7	1.1	6
133	Allowable variation of cold-rolled strip transverse profiles in high tension. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010 , 17, 608-616	3.1	6
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