

Zheng-Yi Jiang

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.

285
papers

3,886
citations

29
h-index

48
g-index

310
ext. papers

4,947
ext. citations

3.6
avg, IF

6.06
L-index

#	Paper	IF	Citations
285	Mechanical and Electrical Properties of Y-containing Al-Zr Heat-resistant Alloy Produced by Dynamic ECAE Process. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2022 , 37, 123-129	1.29	1
284	Effects of strain rate on the microstructure and texture evolution of a TRIP-TWIP metastable austenitic stainless steel during bending. <i>Journal of Materials Science</i> , 2022 , 57, 3727	4.3	0
283	Effects of sintering temperature on interface microstructure and element diffusion of WC-Co-Ni-Fe/high-speed steel composites. <i>Materials Letters</i> , 2022 , 310, 131449	3.3	1
282	Design of a novel austenitising bending process in forming characteristics of high-strength quenched and micro-alloyed steel: Experiment and simulation. <i>Materials and Design</i> , 2022 , 215, 110458	8.1	1
281	Microstructure, mechanical and thermal properties of ultrafine-grained Al ₂ O ₃ /TiC-GNPs nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 841, 142855	5.3	1
280	Fabrication of TiC-graphene dual-reinforced self-lubricating Al matrix hybrid nanocomposites with superior mechanical and tribological properties. <i>Tribology International</i> , 2022 , 171, 107535	4.9	0
279	Effects of Quenching and Tempering Heat Treatment Processing on the Microstructure and Properties of High-Strength Hull Steel. <i>Metals</i> , 2022 , 12, 914	2.3	
278	Investigation of compact tensile and fracture mechanical properties of a duplex stainless steel bimetal composite with the interfacial zone. <i>Journal of Materials Research and Technology</i> , 2022 , 19, 809-820	5.5	0
277	Water-based nanosuspensions: Formulation, tribological property, lubrication mechanism, and applications. <i>Journal of Manufacturing Processes</i> , 2021 , 71, 625-644	5	8
276	Characteristic flow behaviour prediction and microstructure analysis of a commercial SiCr micro-alloyed spring steel under isothermal compression. <i>Vacuum</i> , 2021 , 186, 110066	3.7	4
275	Fabrication of a Composite Material of High-Chromium Cast Iron Dispersed in Low-Carbon Steel by Hot-Rolling Process. <i>Steel Research International</i> , 2021 , 92, 2100001	1.6	1
274	A novel ultrahigh-speed ball-on-disc tribometer. <i>Tribology International</i> , 2021 , 157, 106901	4.9	4
273	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
272	Effect of Lüders Bands by Strain Ageing on Strain Distribution, Microstructure and Texture Evolution of High-Strength Pipe Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 657-667	2.5	
271	Hybrid tracking protocol design of nonlinear singular multi-agent systems under Markovian switching topology. <i>Information Sciences</i> , 2021 , 545, 280-297	7.7	5
270	Optimisation of sintering parameters for bonding nanocrystalline cemented tungsten carbide powder and solid high strength steel. <i>Composite Interfaces</i> , 2021 , 28, 477-492	2.3	2
269	Admissibility and Admissibilization of Singular Polynomial Fuzzy Systems with Time-Varying Delay. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 81-93	3.6	1

268	Influence of blank holder-die gap on micro-deep drawing of SUS304 cups. <i>International Journal of Mechanical Sciences</i> , 2021 , 191, 106065	5.5	5
267	Reachable set estimation for neutral Markovian jump systems with mode-dependent time-varying delays. <i>Optimal Control Applications and Methods</i> , 2021 , 42, 195-215	1.7	4
266	Comparison of a laboratory-scale coke and a pilot-scale coke from matched coal. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 514-526	1.3	
265	Analysis of the multiphase lubricating oil effect on the performance of the tilting-pad journal bearing. <i>Thermal Science</i> , 2021 , 25, 2245-2252	1.2	
264	Microstructure and texture evolution of cold-rolled low-Ni CrMnN austenitic stainless steel during bending. <i>Journal of Materials Science</i> , 2021 , 56, 6465-6486	4.3	3
263	Analysis of the multiphase lubricating oil effect on the performance of the tilting-pad journal bearing. <i>Thermal Science</i> , 2021 , 92-92	1.2	
262	Towards understanding the brittle-ductile transition in the extreme manufacturing. <i>International Journal of Extreme Manufacturing</i> , 2021 , 3, 022001	7.9	6
261	Deformation mechanism and texture evolution of a low-Ni CrMnN austenitic stainless steel under bending deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140724	5.3	5
260	Mg alloy surface immobilised with caerin peptides acquires enhanced antibacterial ability and putatively improved corrosion resistance. <i>Materials Science and Engineering C</i> , 2021 , 121, 111819	8.3	2
259	Novel three-dimensional multi-objective numerical modeling for hot strip tandem rolling. <i>International Journal of Material Forming</i> , 2021 , 14, 989-1004	2	1
258	Effect of Ni on the Microstructure and Diffusion Behavior at the Interface of WC/High-Speed Steel Composites. <i>Metals</i> , 2021 , 11, 341	2.3	2
257	A study of influence of hydraulic pressure on micro-hydronechanical deep drawing considering size effects and surface roughness. <i>Wear</i> , 2021 , 477, 203803	3.5	5
256	The Effect of Immersion Corrosion Time on Electrochemical Corrosion Behavior and the Corrosion Mechanism of EH47 Ship Steel in Seawater. <i>Metals</i> , 2021 , 11, 1317	2.3	1
255	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
254	A Comprehensive Review of Water-Based Nanolubricants. <i>Lubricants</i> , 2021 , 9, 89	3.1	11
253	Synergistic effects of TiC and graphene on the microstructure and tribological properties of Al ₂ O ₃ matrix composites. <i>Advanced Powder Technology</i> , 2021 , 32, 3635-3649	4.6	4
252	Eco-Friendly Water-Based Nanolubricants for Industrial-Scale Hot Steel Rolling. <i>Lubricants</i> , 2020 , 8, 96	3.1	8
251	Study on Deformation Characteristics and Microstructure Evolution of 2205/AH36 Bimetal Composite in a Novel Hot Forming Process. <i>Metals</i> , 2020 , 10, 1375	2.3	2

250	Microstructural evaluation of WC and steel dissimilar bilayered composite obtained by spark plasma sintering. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 2405-2418	3.2	1
249	Understanding the role of water-based nanolubricants in micro flexible rolling of aluminium. <i>Tribology International</i> , 2020 , 151, 106378	4.9	11
248	Effects of cold rolling and annealing on the ridging behaviour of ferritic stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4823-4836	3.2	3
247	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
246	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
245	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
244	Shear-Out Capacity of Bolted Connections in Cold-Reduced Steel Sheets. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020018	3	9
243	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
242	Study of Wire Deformation Characterization and Size Effects during the Micro-Flat-Rolling Process. <i>Metals</i> , 2020 , 10, 405	2.3	2
241	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
240	Revealing the recrystallization behavior of an excellent strip casting 4.5 wt% Si non-oriented electrical steel. <i>Materials Characterization</i> , 2020 , 163, 110310	3.9	4
239	Reachable Set Estimation for Markovian Jump Neutral-Type Neural Networks With Time-Varying Delays. <i>IEEE Transactions on Cybernetics</i> , 2020 ,	10.2	3
238	Frictional Size Effect of Light-Weight Mg ₂ Li Alloy in Micro Deep Drawing under Nano-Particle Lubrication Condition. <i>Materials Transactions</i> , 2020 , 61, 239-243	1.3	3
237	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
236	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
235	Hot deformation behaviour and interfacial characteristics of bimetal composite at elevated temperatures. <i>Intermetallics</i> , 2020 , 125, 106893	3.5	5
234	Giant Magnetoresistance and Magnetocaloric Effect in Highly Textured Ni ₄₅ Mn _{36.5} In _{13.5} Co ₅ Alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000381	1.6	1
233	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

232	Effect of Temperature and Strain Rate on the Hot Deformation Behaviour of Ferritic Stainless Steel. <i>Metals and Materials International</i> , 2020 , 26, 248-259	2.4	6
231	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
230	Dissipativity-Based Consensus Tracking of Singular Multiagent Systems With Switching Topologies and Communication Delays. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	4
229	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
228	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
227	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
226	Effects of Holding Time on the Sintering of Cemented Tungsten Carbide Powder and Bonding with High-Strength Steel Wire. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4074-4085	1.6	3
225	Effect of austenisation temperature on bainite transformation below martensite starting temperature. <i>Materials Science and Technology</i> , 2019 , 35, 1539-1550	1.5	8
224	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
223	Analysis of surface roughness alteration in micro flexible rolling. <i>Wear</i> , 2019 , 426-427, 1286-1295	3.5	4
222	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
221	Advances in Ladle Shroud as A Functional Device in Tundish Metallurgy: A Review. <i>ISIJ International</i> , 2019 , 59, 1167-1177	1.7	9
220	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
219	Quantification of texture-induced ridging in ferritic stainless steels 430 and 430LR during tensile deformation. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2041-2051	5.5	4
218	Micromanufacturing of composite materials: a review. <i>International Journal of Extreme Manufacturing</i> , 2019 , 1, 012004	7.9	32
217	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
216	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
215	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

214	Comprehensive Analysis of the Effect of Ausforming on the Martensite Start Temperature in a Fe-C-Mn-Si Medium-Carbon High-Strength Bainite Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4541-4549	2.3	3
213	Oxidation Behaviour of Steel During hot Rolling by Using TiO ₂ -Containing Water-Based Nanolubricant. <i>Oxidation of Metals</i> , 2019 , 92, 315-335	1.6	4
212	Influences of Load and Microstructure on Tribocorrosion Behaviour of High Strength Hull Steel in Saline Solution. <i>Tribology Letters</i> , 2019 , 67, 1	2.8	4
211	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
210	Periodic Topology Optimization of a Stacker Crane. <i>IEEE Access</i> , 2019 , 7, 186553-186562	3.5	1
209	Numerical and experimental studies on wrinkling control methods of sheet metal part with high curvature and large flange in rubber forming. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401983378 ²	1.2	2
208	Effect of Particle Size on Microstructure and Element Diffusion at the Interface of Tungsten Carbide/High Strength Steel Composites. <i>Materials</i> , 2019 , 12,	3.5	5
207	Finite Element Analysis of Forward Slip in Micro Flexible Rolling of Thin Aluminium Strips. <i>Metals</i> , 2019 , 9, 1062	2.3	1
206	A Calculation Method to Investigate the Effects of Geometric Parameters and Operational Conditions on the Static Characteristics of Aerostatic Spherical Bearings. <i>Journal of Tribology</i> , 2019 , 141,	1.8	3
205	Transformation Behavior and Properties of Carbide-Free Bainite Steels with Different Si Contents. <i>Steel Research International</i> , 2019 , 90, 1800474	1.6	11
204	Graphene encapsulated SiC nanoparticles as tribology-favoured nanofillers in aluminium composite. <i>Composites Part B: Engineering</i> , 2019 , 162, 445-453	10	28
203	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
202	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
201	Microstructure and mechanical properties of thin varying thickness strips with different transition zones produced by micro flexible rolling. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1954-1967	2.4	5
200	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
199	A theoretical and experimental study on the stiffness of aerostatic thrust bearings with vacuum preloading. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019 , 233, 256-270	1.4	5
198	Three-directional contact force model for the ball spinning of a thin-walled tube. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019 , 233, 500-507 ^{1.5}	1.5	0
197	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	27

196	Effects of rolling processes on ridging generation of ferritic stainless steel. <i>Materials Characterization</i> , 2018 , 137, 201-211	3.9	16
195	In Situ synthesis of SiC-graphene core-shell nanoparticles using wet ball milling. <i>Ceramics International</i> , 2018 , 44, 8283-8289	5.1	25
194	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
193	Thermomechanical processing of advanced high strength steels. <i>Progress in Materials Science</i> , 2018 , 94, 174-242	42.2	166
192	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
191	Mechanical metamaterials associated with stiffness, rigidity and compressibility: A brief review. <i>Progress in Materials Science</i> , 2018 , 94, 114-173	42.2	334
190	Analysis of transient heat source and coupling temperature field during cold strip rolling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 835-846	3.2	3
189	Effects of microrolling parameters on the microstructure and deformation behavior of pure copper. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 45-52	3.1	5
188	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
187	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
186	A new constitutive analysis of hexagonal close-packed metal in equal channel angular pressing by crystal plasticity finite element method. <i>Continuum Mechanics and Thermodynamics</i> , 2018 , 30, 69-82	3.5	2
185	Micro-hydromechanical deep drawing of metal cups with hydraulic pressure effects. <i>Frontiers of Mechanical Engineering</i> , 2018 , 13, 66-73	3.3	7
184	The Effect of a Dissipative Ladle Shroud on Mixing in Tundish: Mathematical and Experimental Modelling. <i>High Temperature Materials and Processes</i> , 2018 , 37, 25-32	0.9	2
183	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
182	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
181	Plasticity Improvement of Ball-Spun Magnesium Alloy Tube Based on Stress Triaxiality. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-12	1.5	1
180	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
179	Comparison of Multiphase Flow in a Continuous Casting Tundish Using Two Types of Industrialized Ladle Shrouds. <i>Jom</i> , 2018 , 70, 2886-2892	2.1	2

178	Analysis of bending characteristics of bimetal steel composite. <i>International Journal of Mechanical Sciences</i> , 2018 , 148, 272-283	5.5	14
177	Influence of hot rolling on microstructure and mechanical characteristics of explosive-welded FSS/CS laminate. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 572-579	1.2	2
176	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
175	Analysis of contact mechanics in micro flexible rolling. <i>Procedia Manufacturing</i> , 2018 , 15, 1467-1474	1.5	3
174	Micro forming of metallic composites. <i>Procedia Manufacturing</i> , 2018 , 15, 1429-1436	1.5	4
173	Effect of annealing on microstructure and hardness of thin aluminium strips fabricated by micro flexible rolling. <i>MATEC Web of Conferences</i> , 2018 , 190, 11001	0.3	1
172	Analysis of Springback Behaviour in Micro Flexible Rolling of Crystalline Materials. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-14	1.5	1
171	High precision recognition and adjustment of complicated shape details in fine cold rolling process of ultra-thin wide strip. <i>Journal of Manufacturing Processes</i> , 2018 , 35, 508-516	5	1
170	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
169	Tribological Testing of Metallurgical Coke: Coefficient of Friction and Relation to Coal Properties. <i>Energy & Fuels</i> , 2018 , 32, 12021-12029	4.1	4
168	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
167	Estimating coke fracture toughness using acoustic emissions and changes in coefficient of friction during scratch testing. <i>Fuel</i> , 2018 , 226, 564-572	7.1	6
166	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
165	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
164	Stir casting process for manufacture of AlBiC composites. <i>Rare Metals</i> , 2017 , 36, 581-590	5.5	109
163	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
162	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
161	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

160	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
159	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
158	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
157	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
156	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
155	Mathematical modelling of fluid flow inside trumpet-shaped ladle shrouds. <i>Ironmaking and Steelmaking</i> , 2017 , 44, 732-738	1.3	5
154	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
153	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
152	Effects of surface preparation on tribological behaviour of a ferritic stainless steel in hot rolling. <i>Wear</i> , 2017 , 376-377, 1804-1813	3.5	5
151	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
150	Study of micro flexible rolling based on grained inhomogeneity. <i>International Journal of Mechanical Sciences</i> , 2017 , 123, 324-339	5.5	7
149	Intelligent Shape Regulation Cooperative Model of Cold Rolling Strip and Its Application. <i>Steel Research International</i> , 2017 , 88, 1600383	1.6	5
148	Simulation of Micro Ultrathin Strip Rolling 2017 , 187-214		
147	Size effects in micro rolling of metals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 282, 012013	0.4	5
146	Practice of Micro Deep Drawing 2017 , 369-390		1
145	Practice of Micro Hydromechanical Deep Drawing 2017 , 391-416		
144	Simulation of Micro Deep Drawing 2017 , 215-239		
143	Fundamentals of Microforming 2017 , 3-27		2

142	Practice of Micro Flexible Rolling 2017 , 325-346		0
141	The pH-dependent structural and tribological behaviour of aqueous graphene oxide suspensions. <i>Tribology International</i> , 2017 , 116, 460-469	4.9	35
140	A review of modern advancements in micro drilling techniques. <i>Journal of Manufacturing Processes</i> , 2017 , 29, 343-375	5	90
139	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
138	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
137	Reprint of Influences of micro-friction on surface finish in micro deep drawing of SUS304 cups[] <i>Wear</i> , 2017 , 376-377, 1147-1155	3.5	3
136	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
135	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
134	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
133	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
132	Simulations of hydro-mechanical deep drawing using Voronoi model and real microstructure model. <i>Procedia Engineering</i> , 2017 , 207, 1033-1038		8
131	Study of micro hydromechanical deep drawing of SUS304 circular cups by an ALE model. <i>Procedia Engineering</i> , 2017 , 207, 1039-1044		
130	Experimental and numerical study on micro deep drawing with aluminium-copper composite material. <i>Procedia Engineering</i> , 2017 , 207, 1051-1056		9
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125	Improving Thin Strip Profile Using Work Roll Cross and Work Roll Shifting Methods in Cold Strip Rolling. <i>International Journal of Metals</i> , 2017 , 2017, 1-10		2

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