

Kiet A Tieu

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.

457
papers

6,058
citations

38
h-index

46
g-index

496
ext. papers

7,079
ext. citations

3.6
avg. IF

6.15
L-index

#	Paper	IF	Citations
457	Study of wear and friction properties of a Co-free CrFeNiAl _{0.4} Ti _{0.2} high entropy alloy from 600 to 950 °C. <i>Tribology International</i> , 2022 , 169, 107453	4.9	0
456	Influence of alkaline species on the high temperature lubrication of molten carbonate. <i>Tribology International</i> , 2022 , 165, 107257	4.9	
455	Tribological performances of ceramic oxide nanoparticle additives in sodium borate melt under steel/steel sliding contacts at high temperatures. <i>Tribology International</i> , 2022 , 165, 107296	4.9	
454	Influences of Iron and Iron Oxides on Ultra-thin Carbon-based Tribofilm Lubrication. <i>Tribology International</i> , 2022 , 107665	4.9	0
453	A review on plastic deformation induced surface/interface roughening of sheet metallic materials. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 6574-6607	5.5	6
452	Synergistic and Competitive Effects between Zinc Dialkyldithiophosphates and Modern Generation of Additives in Engine Oil. <i>Lubricants</i> , 2021 , 9, 35	3.1	3
451	Porosity-induced mechanically robust superhydrophobicity by the sintering and silanization of hydrophilic porous diatomaceous earth. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 242-251	9.3	3
450	Na ₂ CO ₃ and graphene nanocomposites toward efficient lubrication. <i>Carbon</i> , 2021 , 177, 138-150	10.4	1
449	Insight into the Mechanical Behavior of Hybrid Colloidal Capsules at Elevated Temperatures by Direct Visualization of the Interfacial Solid-State Reactions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17462-17473	3.8	0
448	A study of water-based lubricant with a mixture of polyphosphate and nano-TiO ₂ as additives for hot rolling process. <i>Wear</i> , 2021 , 477, 203895	3.5	5
447	Discrete element method using cohesive plastic beam for modeling elasto-plastic deformation of ductile materials. <i>Computational Particle Mechanics</i> , 2021 , 8, 437-457	3	2
446	High load capability, sticking scale inhabitation and promising lubrication of sodium carbonate coating for steel/steel contact at high temperature. <i>Tribology International</i> , 2021 , 153, 106594	4.9	6
445	Nano-coupled heterostructure induced excellent mechanical and tribological properties in AlCoCrFeNi high entropy alloy. <i>Tribology International</i> , 2021 , 154, 106662	4.9	14
444	Effect of adding soft Bi ₂ O ₃ on structural modification and tribological regulation of Ni-5wt% Al composite coating in wide temperatures range. <i>Surface and Coatings Technology</i> , 2021 , 405, 126517	4.4	3
443	Surface characteristics and wettability of superhydrophobic silanized inorganic glass coating surfaces textured with a picosecond laser. <i>Applied Surface Science</i> , 2021 , 537, 147808	6.7	17
442	Sliding wear behavior and electrochemical properties of binder jet additively manufactured 316SS /bronze composites in marine environment. <i>Tribology International</i> , 2021 , 156, 106810	4.9	5
441	High temperature tribological performance of nickel-based composite coatings by incorporating multiple oxides (TiO ₂ /ZnO/MoO ₃). <i>Tribology International</i> , 2021 , 155, 106759	4.9	6

440	Temperature-mediated tribological characteristics of 40CrNiMoA steel and Inconel 718 alloy during sliding against Si3N4 counterparts. <i>Friction</i> , 2021 , 9, 1175-1197	5.6	4
439	A crystal plasticity FE study of macro- and micro-subdivision in aluminium single crystals {001} multi-pass rolled to a high reduction. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 231-246	9.1	1
438	Impact of chosen force fields and applied load on thin film lubrication. <i>Friction</i> , 2021 , 9, 1259-1274	5.6	5
437	A First-Principles Study of Impurity-Enhanced Adhesion and Lubricity of Graphene on Iron Oxide Surface. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4310-4321	3.8	3
436	Smart-Responsive Colloidal Capsules as an Emerging Tool to Design a Multifunctional Lubricant Additive. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7714-7724	9.5	4
435	Detailed assessments of tribological properties of binder jetting printed stainless steel and tungsten carbide infiltrated with bronze. <i>Wear</i> , 2021 , 477, 203788	3.5	3
434	Effects of oxidation on friction and wear properties of eutectic high-entropy alloy AlCoCrFeNi2.1. <i>Tribology International</i> , 2021 , 160, 107017	4.9	8
433	A study of alkali polyphosphate/borate/carbonate for high temperature lubrication of silicon steel using ball-on-disc tests. <i>Tribology International</i> , 2021 , 160, 107015	4.9	0
432	Computational Tribochemistry: A Review from Classical and Quantum Mechanics Studies. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16875-16891	3.8	1
431	In-situ formed graphene providing lubricity for the FeCoCrNiAl based composite containing graphite nanoplate. <i>Composites Part B: Engineering</i> , 2021 , 221, 109032	10	7
430	Study on Lubrication Characteristics of C4-Alkane and Nanoparticle during Boundary Friction by Molecular Dynamics Simulation. <i>Metals</i> , 2021 , 11, 1464	2.3	2
429	Enhancing strength while preserving elongation: A study on copper after accumulative skin pass rolling. <i>International Journal of Mechanical Sciences</i> , 2021 , 210, 106756	5.5	0
428	Anti-oxidation mechanism and interfacial chemistry of BN@CaCO3-SiO2 microcapsule-added sodium borate melt on the sliding steel surfaces at elevated temperatures. <i>Applied Surface Science</i> , 2021 , 566, 150556	6.7	1
427	Hydroxyl Influence on Adsorption and Lubrication of an Ultrathin Aqueous Triblock Copolymer Lubricant. <i>Langmuir</i> , 2021 , 37, 1465-1479	4	1
426	First-principles molecular dynamics study on the surface chemistry and nanotribological properties of MgAl layered double hydroxides. <i>Nanoscale</i> , 2021 , 13, 5014-5025	7.7	4
425	Microstructure evolution, lattice rotation retardation and grain orientation fragmentation in commercial purity aluminium deformed by high pressure torsion. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 6642-6654	5.5	7
424	Intrinsic Effect of Nanoparticles on the Mechanical Rupture of Doubled-Shell Colloidal Capsule via In Situ TEM Mechanical Testing and STEM Interfacial Analysis. <i>Small</i> , 2020 , 16, e2001978	11	3
423	Intrinsic Effect of Alkali Concentration on Oxidation Reactivity and High-Temperature Lubricity of Silicate Melts between Rubbed Steel/Steel Contacts. <i>Langmuir</i> , 2020 , 36, 7850-7860	4	5

4 ²²	Effect of cryogenic temperature equal channel angular pressing on microstructure, bulk texture and tensile properties of AA1050. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 780, 139190	5.3	8
4 ²¹	Tribological Performance of Inorganic Borate at Elevated Temperatures. <i>Tribology Transactions</i> , 2020 , 63, 796-805	1.8	2
4 ²⁰	Insights into the tribochemistry of sliding iron oxide surfaces lubricated by sodium silicate glasses: An ab initio molecular dynamics study. <i>Applied Surface Science</i> , 2020 , 528, 147008	6.7	6
4 ¹⁹	Achieving the excellent self-lubricity and low wear of TiAl intermetallics through the addition of copper coated graphite. <i>Composites Part B: Engineering</i> , 2020 , 198, 108223	10	9
4 ¹⁸	Reactive Molecular Dynamics Study of Hierarchical Tribochemical Lubricant Films at Elevated Temperatures. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2687-2704	5.6	5
4 ¹⁷	Sintered ZrO ₂ /TiO ₂ ceramic composite and its mechanical appraisal. <i>Ceramics International</i> , 2020 , 46, 775-785	5.1	9
4 ¹⁶	Lubrication mechanism of sodium metasilicate at elevated temperatures through tribo-interface observation. <i>Tribology International</i> , 2020 , 142, 105972	4.9	13
4 ¹⁵	Lubrication performance of aqueous copolymer lubricants with phosphate ester additive at different temperature on the Si surface. <i>Lubrication Science</i> , 2020 , 32, 230-244	1.3	1
4 ¹⁴	Effects of normal load and velocity on the dry sliding tribological behaviour of CoCrFeNiMo0.2 high entropy alloy. <i>Tribology International</i> , 2020 , 144, 106116	4.9	49
4 ¹³	Ab initio study on physical and chemical interactions at borates and iron oxide interface at high temperature. <i>Chemical Physics</i> , 2020 , 529, 110548	2.3	5
4 ¹²	Mechanisms of Pressure-Induced Structural Transformation in Confined Sodium Borate Glasses. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 277-287	3.4	4
4 ¹¹	The effect of expanded graphite with sodium metasilicate as lubricant at high temperature. <i>Carbon</i> , 2020 , 159, 345-356	10.4	20
4 ¹⁰	Probing tribo-interface evolution governing high temperature tribology of nitride ceramic contacts. <i>Materials Characterization</i> , 2020 , 160, 110062	3.9	1
4 ⁰⁹	In-situ interfacial tribochemistry toward eliminating red-scale of silicon steel in friction process. <i>Tribology International</i> , 2020 , 143, 106077	4.9	7
4 ⁰⁸	Oxidative and Frictional Behavior of a Binary Sodium Borate/Silicate Composite in High-Temperature Lubricant Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2921-2933	3.9	10
4 ⁰⁷	Investigation into reciprocating dry sliding friction and wear properties of bulk CoCrFeNiMo high entropy alloys fabricated by spark plasma sintering and subsequent cold rolling processes: Role of Mo element concentration. <i>Wear</i> , 2020 , 460-461, 203440	3.5	14
4 ⁰⁶	Grain growth at fragmentation stage in commercial purity aluminium deformed by high pressure torsion. <i>Materials Letters</i> , 2020 , 277, 128272	3.3	1
4 ⁰⁵	High temperature lubrication and mechanism of sodium carbonate by interface tailoring. <i>Applied Surface Science</i> , 2020 , 530, 147288	6.7	7

404	Tribochemistry and Lubrication of Alkaline Glass Lubricants in Hot Steel Manufacturing. <i>Lubricants</i> , 2020 , 8, 70	3.1	4
403	Surface transformation and interactions of iron oxide in glassy lubricant: An ab initio study. <i>Chemical Physics</i> , 2020 , 538, 110919	2.3	2
402	Structural response of alkali metal borates at Fe2O3 sliding interface: The effect of alkali cations. <i>Computational Materials Science</i> , 2020 , 184, 109930	3.2	3
401	Thermo-mechanical coupled finite element analysis of rolling contact fatigue and wear properties of a rail steel under different slip ratios. <i>Tribology International</i> , 2020 , 141, 105943	4.9	18
400	Microstructure, mechanical properties and tribological behavior of the low-pressure cold sprayed tin bronze-alumina coating in artificial seawater. <i>Tribology International</i> , 2020 , 142, 105992	4.9	12
399	Unusual Competitive and Synergistic Effects of Graphite Nanoplates in Engine Oil on the Tribofilm Formation. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901081	4.6	10
398	Microstructural study and residual stress measurement of a hot rolling work roll material during isothermal oxidation. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 2107-2118 ^{3.2}		8
397	A Combined Experiment and Crystal Plasticity FEM Study of Microstructure and Texture in Aluminium Processed by Reverse and Unidirectional Accumulative Roll-Bonding. <i>Crystals</i> , 2019 , 9, 119	2.3	4
396	Investigating the corrosion-fatigue wear on CrN coated piston rings from laboratory wear tests and field trial studies. <i>Wear</i> , 2019 , 432-433, 202940	3.5	6
395	Contribution of Sodium Metasilicate to the Diffusion of Mn in Steel under Tribological Contact at High Temperatures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14468-14479	3.8	8
394	Effects of H segregation on shear-coupled motion of <110> grain boundaries in Fe. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 18616-18627	6.7	6
393	Tribological behaviour of enamel coatings. <i>Wear</i> , 2019 , 426-427, 319-329	3.5	5
392	Influence of hydrogen environment on dislocation nucleation and fracture response of <1 1 0> grain boundaries in nickel. <i>Computational Materials Science</i> , 2019 , 165, 40-50	3.2	12
391	Rendering hydrophilic glass-ceramic enamel surfaces hydrophobic by acid etching and surface silanization for heat transfer applications. <i>Surface and Coatings Technology</i> , 2019 , 370, 82-96	4.4	7
390	Characterizing deformation behaviour of an oxidized high speed steel: Effects of nanoindentation depth, friction and oxide scale porosity. <i>International Journal of Mechanical Sciences</i> , 2019 , 155, 267-285 ^{5.5}		18
389	Mechanical and tribological assessments of high-vanadium high-speed steel by the conventional powder metallurgy process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 943-955 ^{3.2}		6
388	A crystal plasticity FEM study of through-thickness deformation and texture in a {112} aluminium single crystal during accumulative roll-bonding. <i>Scientific Reports</i> , 2019 , 9, 3401	4.9	6
387	Insights into the behavior of polyphosphate lubricant in hot rolling of mild steel. <i>Wear</i> , 2019 , 426-427, 433-442	3.5	4

386	Unveiling oil-additive/surface hierarchy at real ring-liner contact. <i>Surfaces and Interfaces</i> , 2019 , 15, 1-10	4.1	
385	Influence of solute hydrogen on the interaction of screw dislocations with vicinal twin boundaries in nickel. <i>Scripta Materialia</i> , 2019 , 173, 115-119	5.6	7
384	A crystal plasticity FEM investigation of a Cu single crystal processed by accumulative roll-bonding. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 5057-5065	5.5	4
383	Temperature/shear-induced interface reconstruction of hot rolled carbon steel lubricated by polyphosphate composite lubricants. <i>Tribology International</i> , 2019 , 140, 105863	4.9	1
382	Microstructure and mechanical properties of large-volume gradient-structure aluminium sheets fabricated by cyclic skin-pass rolling. <i>Philosophical Magazine</i> , 2019 , 99, 2265-2284	1.6	5
381	Lubricant as a sticking-scale inhibitor on high temperature sliding contact. <i>Tribology International</i> , 2019 , 140, 105860	4.9	6
380	Cyclic transition of deformation in {1 2 3} single crystal processed by accumulative roll-bonding. <i>Materials Science and Technology</i> , 2019 , 35, 2150-2156	1.5	
379	Crystal plasticity modelling of microbands in a rolled aluminium single crystal. <i>Materialia</i> , 2019 , 8, 100483,2		
378	The negative Poisson's ratio and strengthening mechanism of nanolayered graphene/Cu composites. <i>Carbon</i> , 2019 , 143, 125-137	10.4	40
377	Correlation Between Crystal Rotation and Redundant Shear Strain in Rolled Single Crystals: A Crystal Plasticity FE Analysis. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019 , 32, 452-460	2.5	1
376	Physical and chemical insights into molecular adsorption of copolymer monomers on Rutile surface. <i>Chemical Physics</i> , 2019 , 520, 8-20	2.3	2
375	Texture Stability and Transition in an Accumulative Roll-Bonding-Processed Aluminum Single Crystal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1611-1615	2.3	5
374	Dual effects of TiSiO4 composite nanoparticles on dispersion stability and lubrication performance of vegetable oil-in-water emulsions. <i>Lubrication Science</i> , 2019 , 31, 21-39	1.3	2
373	Effect of Temperature on Deformation and Fracture Behaviour of Nanostructured Polycrystalline Ni Under Tensile Hydrostatic Stress by Molecular Dynamics Simulation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2723-2731	1.3	
372	Texture Modeling of Accumulative Roll-Bonding Processed Aluminum Single Crystal {1 2 3} by Crystal Plasticity FE. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800827	3.5	6
371	Effects of grain boundary on wear of graphene at the nanoscale: A molecular dynamics study. <i>Carbon</i> , 2019 , 143, 578-586	10.4	34
370	Atomistic simulations of hydrogen effects on tensile deformation behaviour of [0 0 1] twist grain boundaries in nickel. <i>Computational Materials Science</i> , 2019 , 159, 12-23	3.2	6
369	Influence of molecular structure on lubrication of aqueous triblock copolymer lubricants between rutile surfaces: An MD approach. <i>Tribology International</i> , 2019 , 130, 170-183	4.9	6

368	Coupled effects of initial orientation scatter and grain-interaction to texture evolution: a crystal plasticity FE study. <i>International Journal of Material Forming</i> , 2019 , 12, 161-171	2	8
367	Depolymerization of sodium polyphosphates on an iron oxide surface at high temperature. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7819-7835	3.6	12
366	Nanoporous Al sandwich foils using size effect of Al layer thickness during Cu/Al/Cu laminate rolling. <i>Philosophical Magazine</i> , 2018 , 98, 1537-1549	1.6	11
365	Investigation of different inorganic chemical compounds as hot metal forming lubricant by pin-on-disc and hot rolling. <i>Tribology International</i> , 2018 , 125, 110-120	4.9	18
364	A new finite element model for multi-cycle accumulative roll-bonding process and experiment verification. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 93-101	5.3	20
363	Deformation mechanisms and slip-twin interactions in nanotwinned body-centered cubic iron by molecular dynamics simulations. <i>Computational Materials Science</i> , 2018 , 147, 34-48	3.2	11
362	The Influence of Water Addition on High-Temperature Tribological Properties of Interstitial Free Steel Sliding against Different Counterparts. <i>Tribology Transactions</i> , 2018 , 61, 713-725	1.8	5
361	Mechanical properties and microstructure of a Ti-6Al-4V alloy subjected to cold rolling, asymmetric rolling and asymmetric cryorolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 10-16	5.3	45
360	A CFD decompression model for CO ₂ mixture and the influence of non-equilibrium phase transition. <i>Applied Energy</i> , 2018 , 227, 516-524	10.7	10
359	Deformation twinning and dislocation processes in nanotwinned copper by molecular dynamics simulations. <i>Computational Materials Science</i> , 2018 , 142, 59-71	3.2	19
358	Dynamic interaction between grain boundary and stacking fault tetrahedron. <i>Scripta Materialia</i> , 2018 , 144, 78-83	5.6	31
357	A dual fracture transition mechanism in nanotwinned Ni. <i>Materials Letters</i> , 2018 , 210, 243-247	3.3	1
356	Dispersion Stability and Lubrication Performance Correlation of Vegetable Oil-In-Water Emulsions with Nanoparticle-Shielded Oil Droplets. <i>Lubricants</i> , 2018 , 6, 55	3.1	5
355	Understanding the tribological impacts of alkali element on lubrication of binary borate melt.. <i>RSC Advances</i> , 2018 , 8, 28847-28860	3.7	21
354	First-Principles Study of the Adsorption and Depolymerization Mechanisms of Sodium Silicate on Iron Surfaces at High Temperature. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20827-20840	3.8	11
353	Chemical Origin of Sodium Phosphate Interactions on Iron and Iron Oxide Surfaces by First Principle Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 635-647	3.8	19
352	Growth behavior and mechanical properties of Cr-V composite surface layer on AISI D3 steel by thermal reactive deposition. <i>Vacuum</i> , 2018 , 148, 158-167	3.7	20
351	Nonlinear elastic response of single crystal Cu under uniaxial loading by molecular dynamics study. <i>Materials Letters</i> , 2018 , 227, 236-239	3.3	16

350	Hot corrosion of borate melt and interface chemistry of borate-coated steel under tribological stimulation. <i>Corrosion Science</i> , 2018 , 140, 231-240	6.8	12
349	Phase Behavior and Lubricity of Aqueous PEO-PPO-PEO and PPO-PEO-PPO Triblock Copolymer Solutions. <i>Tribology Transactions</i> , 2017 , 60, 460-468	1.8	4
348	A study of abrasive wear on high speed steel surface in hot rolling by Discrete Element Method. <i>Tribology International</i> , 2017 , 110, 66-76	4.9	23
347	Multi-phase decompression modeling of CO2 pipelines 2017 , 7, 665-679		4
346	Three-dimensional quantification of texture heterogeneity in single-crystal aluminium subjected to equal channel angular pressing. <i>Philosophical Magazine</i> , 2017 , 97, 799-819	1.6	5
345	The formation and destruction of stacking fault tetrahedron in fcc metals: A molecular dynamics study. <i>Scripta Materialia</i> , 2017 , 136, 78-82	5.6	32
344	Adsorption structure and adhesion strength of aqueous copolymer lubricant films on Si surface. <i>Lubrication Science</i> , 2017 , 29, 505-517	1.3	3
343	The structural, tribological, and rheological dependency of thin hexadecane film confined between iron and iron oxide surfaces under sliding conditions. <i>Tribology International</i> , 2017 , 113, 26-35	4.9	17
342	A damping boundary condition for atomistic-continuum coupling. <i>Chinese Physics B</i> , 2017 , 26, 068702	1.2	2
341	Tribological performance of CrN and CrN/GLC coated components for automotive engine applications. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 433-442	5.7	28
340	A study on the texture evolution mechanism of nickel single crystal deformed by high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 239-248	5.3	13
339	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 343-351	5.3	42
338	Multifunctional Bi-Layered Tribofilm Generated on Steel Contact Interfaces under High-Temperature Melt Lubrication. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25092-25103	3.8	24
337	Theoretical and experimental investigation of thermal and oxidation behaviours of a high speed steel work roll during hot rolling. <i>International Journal of Mechanical Sciences</i> , 2017 , 131-132, 811-826	5.5	20
336	Micro-scratch behaviour of adsorbed film formed by aqueous copolymer lubricants with phosphate ester additive on Ti-coated surface. <i>Industrial Lubrication and Tribology</i> , 2017 , 69, 881-890	1.3	1
335	Surface Film Adsorption and Lubricity of Soybean Oil In-Water Emulsion and Triblock Copolymer Aqueous Solution: A Comparative Study. <i>Lubricants</i> , 2017 , 5, 1	3.1	24
334	Enhanced materials performance of Al/Ti/Al laminate sheets subjected to cryogenic roll bonding. <i>Journal of Materials Research</i> , 2017 , 32, 3761-3768	2.5	14
333	Tribochemistry of adaptive integrated interfaces at boundary lubricated contacts. <i>Scientific Reports</i> , 2017 , 7, 9935	4.9	12

332	Effect of loading on the friction and interface microstructure of lubricated steel tribopairs. <i>Tribology International</i> , 2017 , 116, 180-191	4.9	9
331	Decompression Modelling of Pipelines Carrying CO ₂ -N ₂ Mixture and the Influence of Non-equilibrium Phase Transition. <i>Energy Procedia</i> , 2017 , 105, 4204-4209	2.3	1
330	Influence of temperature and local structure on the shear-coupled grain boundary migration. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600477	1.3	10
329	Stacking fault tetrahedron induced plasticity in copper single crystal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 27-38	5.3	34
328	Comparison of the scuffing behaviour and wear resistance of candidate engineered coatings for automotive piston rings. <i>Tribology International</i> , 2017 , 106, 10-22	4.9	42
327	Evolution of microstructure, temperature and stress in a high speed steel work roll during hot rolling: Experiment and modelling. <i>Journal of Materials Processing Technology</i> , 2017 , 240, 200-208	5.3	33
326	Numerical Evaluation of a High Speed Steel Work Roll during Hot Strip Rolling Process. <i>Materials Science Forum</i> , 2017 , 904, 55-60	0.4	4
325	Integrated Condition Monitoring and Prognosis Method for Incipient Defect Detection and Remaining Life Prediction of Low Speed Slew Bearings. <i>Machines</i> , 2017 , 5, 11	2.9	13
324	Progress in Indentation Study of Materials via Both Experimental and Numerical Methods. <i>Crystals</i> , 2017 , 7, 258	2.3	18
323	Study of Anisotropic Plastic Behavior in High Pressure Torsion of Aluminum Single Crystal by Crystal Plasticity Finite Element Method. <i>Crystals</i> , 2017 , 7, 362	2.3	3
322	Evaluation of Mechanical Properties of $\Sigma(210)/[001]$ Tilt Grain Boundary with Self-Interstitial Atoms by Molecular Dynamics Simulation. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-11	3.2	6
321	Tension/compression asymmetry of grain boundaries with non-planar structure. <i>Materials Research Express</i> , 2016 , 3, 085025	1.7	2
320	Coupled grain boundary motion in aluminium: the effect of structural multiplicity. <i>Scientific Reports</i> , 2016 , 6, 25427	4.9	24
319	Chemical nature of alkaline polyphosphate boundary film at heated rubbing surfaces. <i>Scientific Reports</i> , 2016 , 6, 26008	4.9	24
318	Tribochemical Behavior of Phosphate Compounds at an Elevated Temperature. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25742-25751	3.8	26
317	Simultaneous Grain Growth and Grain Refinement in Bulk Ultrafine-Grained Copper under Tensile Deformation at Room Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3785-3789	2.3	13
316	Investigation of the Anisotropic Mechanical Behaviors of Copper Single Crystals Through Nanoindentation Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2717-2725	2.3	4
315	A review on atomistic simulation of grain boundary behaviors in face-centered cubic metals. <i>Computational Materials Science</i> , 2016 , 118, 180-191	3.2	49

314	Tribological Behavior of Aqueous Copolymer Lubricant in Mixed Lubrication Regime. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5641-52	9.5	23
313	Computational fluid dynamics simulation of carbon dioxide dispersion in a complex environment. <i>Journal of Loss Prevention in the Process Industries</i> , 2016 , 40, 419-432	3.5	29
312	A dual deformation mechanism of grain boundary at different stress stages. <i>Materials Letters</i> , 2016 , 167, 278-283	3.3	8
311	Indentation analysis of mechanical behaviour of torsion-processed single-crystal copper by crystal plasticity finite-element method modelling. <i>Philosophical Magazine</i> , 2016 , 96, 261-273	1.6	7
310	Annealing effect on microstructure and mechanical properties of Al/Ti/Al laminate sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 660, 195-204	5.3	47
309	Acoustic emission-based condition monitoring methods: Review and application for low speed slew bearing. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 134-159	7.8	80
308	An overview of inorganic polymer as potential lubricant additive for high temperature tribology. <i>Tribology International</i> , 2016 , 102, 620-635	4.9	49
307	Thickness and scratch resistance of adsorbed film formed by triblock symmetrical copolymer solutions. <i>Lubrication Science</i> , 2016 , 28, 299-315	1.3	5
306	Special Rolling Techniques for Improvement of Mechanical Properties of Ultrafine-Grained Metal Sheets: a Review . <i>Advanced Engineering Materials</i> , 2016 , 18, 754-769	3.5	42
305	Superstrength of nanograined steel with nanoscale intermetallic precipitates transformed from shock-compressed martensitic steel. <i>Scientific Reports</i> , 2016 , 6, 36810	4.9	9
304	Microstructure evolution of accumulative roll bonding processed pure aluminum during cryorolling. <i>Journal of Materials Research</i> , 2016 , 31, 797-805	2.5	12
303	Strengthening mechanisms and dislocation processes in textured nanotwinned copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 676, 474-486	5.3	16
302	Enhanced mechanical properties of ARB-processed aluminum alloy 6061 sheets by subsequent asymmetric cryorolling and ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 256-261	5.3	40
301	Comparisons of stress, heat and wear generated by AC versus DC locomotives under diverse operational conditions. <i>Wear</i> , 2015 , 328-329, 186-196	3.5	8
300	The influence of high temperature due to high adhesion condition on rail damage. <i>Wear</i> , 2015 , 330-331, 571-580	3.5	17
299	Ductile-to-brittle fracture transition in polycrystalline nickel under tensile hydrostatic stress. <i>Computational Materials Science</i> , 2015 , 109, 147-156	3.2	6
298	Brittle versus ductile fracture behaviour in nanotwinned FCC crystals. <i>Materials Letters</i> , 2015 , 152, 65-67, 3		12
297	Molecular dynamics study on the grain boundary dislocation source in nanocrystalline copper under tensile loading. <i>Materials Research Express</i> , 2015 , 2, 035009	1.7	18

296	Excellent melt lubrication of alkali metal polyphosphate glass for high temperature applications. <i>RSC Advances</i> , 2015 , 5, 1796-1800	3.7	17
295	Explore the anisotropic indentation pile-up patterns of single-crystal coppers by crystal plasticity finite element modelling. <i>Materials Letters</i> , 2015 , 161, 227-230	3.3	12
294	Investigation of X70 line pipe steel fracture during single edge-notched tensile testing using acoustic emission monitoring. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 471-479	5.3	9
293	Tribo-surface charge and polar lubricant molecules on friction and lubrication under multiple 3D asperity contacts. <i>Wear</i> , 2015 , 332-333, 1248-1255	3.5	8
292	Nanomechanical properties of TiCN and TiCN/Ti coatings on Ti prepared by Filtered Arc Deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 56-64	5.3	23
291	Crystal plasticity finite element method modelling of indentation size effect. <i>International Journal of Solids and Structures</i> , 2015 , 54, 42-49	3.1	26
290	High Strength and Ductility of Ultrathin Laminate Foils Using Accumulative Roll Bonding and Asymmetric Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 869-879	2.3	18
289	FE method to predict damage formation on curved track for various worn status of wheel/rail profiles. <i>Wear</i> , 2015 , 322-323, 61-75	3.5	29
288	Application of the largest Lyapunov exponent algorithm for feature extraction in low speed slew bearing condition monitoring. <i>Mechanical Systems and Signal Processing</i> , 2015 , 50-51, 116-138	7.8	42
287	Crystal plasticity FEM study of nanoindentation behaviors of Cu bicrystals and Cu ₃ Al bicrystals. <i>Journal of Materials Research</i> , 2015 , 30, 2485-2499	2.5	12
286	Thin film lubrication of hexadecane confined by iron and iron oxide surfaces: A crucial role of surface structure. <i>Journal of Chemical Physics</i> , 2015 , 143, 164702	3.9	23
285	A combined experimental-numerical approach for determining mechanical properties of aluminum subjects to nanoindentation. <i>Scientific Reports</i> , 2015 , 5, 15072	4.9	38
284	Adsorbed film structure and tribological performance of aqueous copolymer lubricants with phosphate ester additive on Ti coated surface. <i>Wear</i> , 2015 , 332-333, 1262-1272	3.5	14
283	Tribofilms generated from bulk polyphosphate glasses at elevated temperatures. <i>Wear</i> , 2015 , 330-331, 230-238	3.5	6
282	The Influence of Alkali Metal Polyphosphate on the Tribological Properties of Heavily Loaded Steel on Steel Contacts at Elevated Temperatures. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500032	4.6	28
281	The shear response of copper bicrystals with $\Sigma 1$ symmetric and asymmetric tilt grain boundaries by molecular dynamics simulation. <i>Nanoscale</i> , 2015 , 7, 7224-33	7.7	36
280	A new insight into ductile fracture of ultrafine-grained Al-Mg alloys. <i>Scientific Reports</i> , 2015 , 5, 9568	4.9	22
279	Adsorption of Normal-Alkanes on Fe(110), FeO(110), and Fe ₂ O ₃ (0001): Influence of Iron Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12999-13010	3.8	39

278	Modelling of Texture Evolution in High Pressure Torsion by Crystal Plasticity Finite Element Method. <i>Applied Mechanics and Materials</i> , 2015 , 764-765, 56-60	0.3	4
277	Brittle versus ductile behaviour of nanotwinned copper: A molecular dynamics study. <i>Acta Materialia</i> , 2015 , 89, 1-13	8.4	38
276	Atomistic simulation of tensile deformation behavior of Σ tilt grain boundaries in copper bicrystal. <i>Scientific Reports</i> , 2014 , 4, 5919	4.9	49
275	A deformation mechanism of hard metal surrounded by soft metal during roll forming. <i>Scientific Reports</i> , 2014 , 4, 5017	4.9	36
274	A crystal plasticity study of the effect of friction on the evolution of texture and mechanical behaviour in the nano-indentation of an aluminium single crystal. <i>Computational Materials Science</i> , 2014 , 81, 30-38	3.2	17
273	Microstructural Evolution and Mechanical Property of AA5050 Alloy Deformed by Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 399-403	2.5	5
272	Circular domain features based condition monitoring for low speed slewing bearing. <i>Mechanical Systems and Signal Processing</i> , 2014 , 45, 114-138	7.8	34
271	Influence of outer corner angle (OCA) on the plastic deformation and texture evolution in equal channel angular pressing. <i>Computational Materials Science</i> , 2014 , 81, 79-88	3.2	14
270	An Investigation of Interface Bonding of Bimetallic Foils by Combined Accumulative Roll Bonding and Asymmetric Rolling Techniques. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4038-4045	2.3	21
269	Advanced Rolling Technologies for Producing Ultrafine-grain/nanostructured Alloys. <i>Procedia Engineering</i> , 2014 , 81, 96-101		11
268	Investigation of ultrafine grained AA1050 fabricated by accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 148-155	5.3	59
267	Numerical comparison between Berkovich and conical nano-indentations: Mechanical behaviour and micro-texture evolution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 57-65	5.3	22
266	A 3D dynamic model to investigate wheel-rail contact under high and low adhesion. <i>International Journal of Mechanical Sciences</i> , 2014 , 85, 63-75	5.5	48
265	Influence of cold rolling reduction on the deformation behaviour and crystallographic orientation development. <i>Computational Materials Science</i> , 2014 , 81, 2-9	3.2	23
264	Shear texture gradient in AA6061 aluminum alloy processed by accumulative roll bonding with high roll roughness. <i>Journal of Alloys and Compounds</i> , 2014 , 594, 12-22	5.7	45
263	Molecular dynamics simulation of the grain boundary sliding behaviour for Al Σ (210). <i>Computational Materials Science</i> , 2014 , 81, 52-57	3.2	7
262	Friction and anti-wear property of aqueous tri-block copolymer solutions in metal forming. <i>International Journal of Surface Science and Engineering</i> , 2014 , 8, 109	1	9
261	The mechanical behaviour of TiN and multi-layered coating of TiN/Ti on Ti6Al4V substrate during nano-indentation. <i>International Journal of Surface Science and Engineering</i> , 2014 , 8, 95	1	3

260	A validated thermo mechanical FEM model of bead-on-plate welding. <i>International Journal of Materials and Product Technology</i> , 2014 , 48, 146	1	4
259	Analysing the heterogeneity of traveller mode choice preference using a random parameter logit model from the perspective of principal-agent theory. <i>International Journal of Logistics Systems and Management</i> , 2014 , 17, 447	0.7	3
258	A study of plastic deformation behavior during high pressure torsion process by crystal plasticity finite element simulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012045	0.4	7
257	Effect of stress state on deformation and fracture of nanocrystalline copper: Molecular dynamics simulation. <i>Chinese Physics B</i> , 2014 , 23, 098102	1.2	0
256	Development of Smart Contact Backup Rolls in Ultra-wide Stainless Strip Rolling Process. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 129-133	4.1	7
255	Investigation of closure of internal cracks during rolling by FE model considering crack surface roughness. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 75, 1633-1640	3.2	9
254	Fabrication of Nanostructured Aluminum Sheets Using Four-Layer Accumulative Roll Bonding. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 448-453	4.1	39
253	Deformation Behavior and Wear Resistance of Hard TiCN and TiCN/Ti Coatings on Ti6Al4V Alloy. <i>Advanced Materials Research</i> , 2014 , 939, 451-458	0.5	1
252	Influence of Loading Conditions during Tensile Testing on Acoustic Emission. <i>Key Engineering Materials</i> , 2014 , 626, 121-126	0.4	4
251	Molecular dynamics simulation of confined n-alkanes: ordered structure and crystalline bridges. <i>International Journal of Surface Science and Engineering</i> , 2014 , 8, 201	1	7
250	Abnormally high residual dislocation density in pure aluminum after Al/Ti/Al laminate annealing for seven days. <i>Philosophical Magazine Letters</i> , 2014 , 94, 732-740	1	9
249	Tensile fracture of ultrafine grained aluminum 6061 sheets by asymmetric cryorolling for microforming. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 1077-1095	3	27
248	Degradation Trend Estimation and Prognosis of Large Low Speed Slewing Bearing Lifetime. <i>Applied Mechanics and Materials</i> , 2014 , 493, 343-348	0.3	15
247	Flow Stress and Pyroplastic Behaviour of Ultra-Low Carbon Steel in Warm Temperature Range. <i>Advanced Materials Research</i> , 2014 , 939, 415-421	0.5	
246	Molecular dynamics study on the atomic mechanisms of coupling motion of [0 0 1] symmetric tilt grain boundaries in copper bicrystal. <i>Materials Research Express</i> , 2014 , 1, 015019	1.7	19
245	Molecular Dynamics Simulation on β Grain Boundaries of Copper Bicrystal under Tensile and Shear Deformation. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1651, 1		2
244	Multiscale model of elastic nanocontacts. <i>Computational Materials Science</i> , 2014 , 81, 98-103	3.2	2
243	Microstructure and Mechanical Properties of AA5005/AA6061 Laminated Composite Processed by Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 515-522	2.5	13

242	Abnormal Ductility Increase of Commercial Purity Al During Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 404-408	2.5	
241	Roughness and Lubricant Effect on 3D Atomic Asperity Contact. <i>Tribology Letters</i> , 2014 , 53, 215-223	2.8	18
240	Response of the Al $\{100\}$ $\{310\}$ Symmetric Tilt Grain Boundary to the Shear Deformation Simulated by Molecular Dynamics. <i>Science of Advanced Materials</i> , 2014 , 6, 1322-1329	2.3	2
239	Vacancy-Type Defects Study on Ultra-Fine Grained Aluminium Processed by Severe Plastic Deformation. <i>Science of Advanced Materials</i> , 2014 , 6, 1338-1345	2.3	3
238	A tool to estimate the wheel/rail contact and temperature rising under dry, wet and oily conditions 2014 ,		7
237	Occurrence of surface defects on strips during hot rolling process by FEM. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 67, 1161-1170	3.2	27
236	Finite Element Analysis of High Pressure Torsion. <i>Steel Research International</i> , 2013 , 84, 1246-1251	1.6	11
235	Mechanical properties of AlMgSi alloy sheets produced using asymmetric cryorolling and ageing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 568, 212-218	5.3	43
234	Fabrication of ultra-thin nanostructured bimetallic foils by Accumulative Roll Bonding and Asymmetric Rolling. <i>Scientific Reports</i> , 2013 , 3, 2373	4.9	32
233	On the Influence of Mesh Size during Finite Element Simulation of Equal Channel Angular Pressing. <i>Materials Science Forum</i> , 2013 , 773-774, 160-165	0.4	
232	Crystal Plasticity FEM Study on the Influence of Crystallographic Orientation in Copper Single Crystals Subjected to Equal Channel Angular Pressing. <i>Steel Research International</i> , 2013 , 84, 1258-1266	1.6	1
231	A molecular dynamics simulation of 3D rough lubricated contact. <i>Tribology International</i> , 2013 , 67, 217-221		31
230	Tribological performance of aqueous copolymer lubricant in loaded contact with Si and coated Ti film. <i>Wear</i> , 2013 , 302, 1010-1016	3.5	13
229	Condition monitoring of naturally damaged slow speed slewing bearing based on ensemble empirical mode decomposition. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 2253-2262	1.6	52
228	A Molecular Dynamics Simulation of Fracture in Nanocrystalline Copper. <i>Journal of Nano Research</i> , 2013 , 23, 50-56	1	1
227	An application of nonlinear feature extraction - A case study for low speed slewing bearing condition monitoring and prognosis 2013 ,		19
226	A simulation of wear behaviour of high-speed steel hot rolls by means of high temperature pin-on-disc tests. <i>Wear</i> , 2013 , 302, 1310-1318	3.5	33
225	A molecular dynamics simulation of boundary lubrication: The effect of n-alkanes chain length and normal load. <i>Wear</i> , 2013 , 301, 62-69	3.5	41

224	Investigation of sample size effect on the deformation heterogeneity and texture development during equal channel angular pressing. <i>Computational Materials Science</i> , 2013 , 74, 75-85	3.2	10
223	Ultrafine grained AA1050/AA6061 composite produced by accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 345-351	5.3	51
222	Simulation of defects in micro-deep drawing of an aluminium alloy foil 2013 ,		4
221	A Misorientation Dependent Criterion of Crack Opening in FCC Single Crystal. <i>Materials Science Forum</i> , 2013 , 773-774, 293-311	0.4	
220	The Effect of Molecular Structure on the Adsorption of PPO-PEO-PPO Triblock Copolymers on Solid Surfaces. <i>Materials Science Forum</i> , 2013 , 773-774, 670-677	0.4	1
219	Application of solid lubricant during warm rolling process of interstitial free steel. <i>Materials Research Innovations</i> , 2013 , 17, s79-s84	1.9	1
218	Effects of Lubrication in Ferrite Rolling of Interstitial Free Steel. <i>Materials Science Forum</i> , 2013 , 773-774, 186-191	0.4	1
217	A Molecular Dynamics Simulation of Fracture in Nanocrystalline Copper. <i>Journal of Nano Research</i> , 2013 , 25, 188-194	1	2
216	Crystal Plasticity Study of the Effect of the Initial Orientation on the Indentation Surface Profile Patterns and Micro-Textures of Aluminum Single Crystal. <i>Steel Research International</i> , 2013 , 84, 1196-1202	1.6	2
215	Fatigue Analysis of a Motorcycle Frame System Based on a Road Test and the Finite Element Method. <i>Materials Science Forum</i> , 2013 , 773-774, 842-850	0.4	
214	Grain Refinement in the Formability of Aluminium Thin Cup. <i>Materials Science Forum</i> , 2013 , 773-774, 166-175	0.4	
213	Effect of Pre-Heating on the Microstructural Evolution and Super-Plasticity of Al Deformed by Accumulative Roll Bonding. <i>Steel Research International</i> , 2013 , 84, 1209-1215	1.6	
212	Investigation of Deformation Behavior during Cold Rolling Cladding Process of Four-Layer Composite Aluminum Alloys. <i>Advanced Materials Research</i> , 2013 , 651, 424-429	0.5	1
211	The Wave Motion of the Rolling Force during Variable Gauge Rolling. <i>Steel Research International</i> , 2013 , 84, 1203-1208	1.6	6
210	Annealing Behavior of Accumulative Roll Bonding Processed Aluminum Composites. <i>Steel Research International</i> , 2013 , 84, 1241-1245	1.6	8
209	AFM and Ellipsometry Studies of Ultra Thin Ti Film Deposited on a Silicon Wafer. <i>Materials Science Forum</i> , 2013 , 773-774, 616-625	0.4	3
208	Finite Element Modeling of the Nanoindentation of Layers of Porous Oxide on High Speed Steel. <i>Steel Research International</i> , 2013 , 84, 1309-1319	1.6	3
207	Investigation on slab continuous straightening technology and deformation analysis. <i>International Journal of Materials and Product Technology</i> , 2013 , 47, 126	1	2

206	Investigation on mechanical properties of high speed steel roll material by nanoindentation. <i>Materials Research Innovations</i> , 2013 , 17, s35-s39	1.9	6
205	A micro deep drawing of ARB processed aluminium foil AA1235. <i>International Journal of Materials and Product Technology</i> , 2013 , 47, 175	1	6
204	Recent Developments in Flat Rolling Technologies 2013 , 2139-2146		1
203	Recent Developments in Flat Rolling Technologies 2013 , 2139-2146		
202	Modeling texture evolution during ECAP of copper single crystal by crystal plasticity FEM. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 68-74	5.3	25
201	Optimization of cushion conditions in micro multi-point sheet forming. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 672-677	5.3	13
200	Asymmetric cryorolling for fabrication of nanostructural aluminum sheets. <i>Scientific Reports</i> , 2012 , 2, 772	4.9	53
199	Variations in the microstructure and mechanical properties of the oxide layer on high speed steel hot rolling work rolls. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 2597-2608	5.3	18
198	A validated thermal model of bead-on-plate welding. <i>Heat and Mass Transfer</i> , 2012 , 48, 1219-1230	2.2	13
197	Study of vacancy-type defects by positron annihilation in ultrafine-grained aluminum severely deformed at room and cryogenic temperatures. <i>Acta Materialia</i> , 2012 , 60, 4218-4228	8.4	53
196	Fracture Behaviors of TiN and TiN/Ti Multilayer Coatings on Ti Substrate during Nanoindentation 2012 , 963-970		1
195	A Numerical Model for Simulation of Crack Initiation Around Inclusion Under Tensile Load. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 1745-1749	0.3	4
194	Three dimensional microstructure study of oxide scale formed on a high-speed steel by means of SEM, FIB and TEM. <i>Corrosion Science</i> , 2011 , 53, 3603-3611	6.8	31
193	Study on Oxidation of Stainless Steels During Hot Rolling. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2011 , 1, 31-42	0.5	
192	Vacancy-assisted hardening in nanostructured metals. <i>Materials Letters</i> , 2011 , 65, 514-516	3.3	17
191	The effect of oxide scale of stainless steels on friction and surface roughness in hot rolling. <i>Wear</i> , 2011 , 271, 2417-2425	3.5	23
190	Study on surface asperity flattening during uniaxial planar compression. <i>Wear</i> , 2011 , 271, 1778-1784	3.5	12
189	Experimental study on wear and friction of work roll material with 4% Cr and added Ti in cold rolling. <i>Wear</i> , 2011 , 271, 2500-2511	3.5	19

188	An investigation into the tribological behaviour of a work roll material at high temperature. <i>Wear</i> , 2011 , 273, 43-48	3.5	23
187	A seamless coupling between molecular dynamics and material point method. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2011 , 28, 55-67	0.6	0
186	Crystal plasticity modeling of texture evolution and heterogeneity in equal channel angular pressing of aluminum single crystal. <i>Acta Materialia</i> , 2011 , 59, 3581-3592	8.4	60
185	An Investigation of Mechanical Non-Sinusoidal Oscillation of Continuous Casting Mold. <i>Advanced Materials Research</i> , 2011 , 264-265, 337-342	0.5	5
184	Analysis of Edge Crack of Thin Strip during Cold Rolling. <i>Materials Science Forum</i> , 2010 , 654-656, 222-225.	0.4	4
183	Analysis of Surface Roughness Transformation of Oxide Scale during Hot Steel Manufacturing. <i>Advanced Materials Research</i> , 2010 , 126-128, 987-992	0.5	5
182	Experimental Study on the Deformation of Oxide Scale and Friction during Hot Rolling of Stainless Steel 304L. <i>Advanced Materials Research</i> , 2010 , 97-101, 412-415	0.5	5
181	Crystal Plasticity Finite Element Modelling of the Influence of Friction on Surface Roughening during Uniaxial Planar Compression. <i>Materials Science Forum</i> , 2010 , 654-656, 1606-1609	0.4	2
180	In-situ investigation of oxidation behaviour in high-speed steel roll material under dry and humid atmospheres. <i>Corrosion Science</i> , 2010 , 52, 2707-2715	6.8	40
179	A modelling of tensile deformation around the notch tip in single crystal aluminium. <i>Computational Materials Science</i> , 2010 , 48, 179-186	3.2	2
178	Study on edge crack propagation during cold rolling of thin strip by FEM 2010 ,		5
177	Effect of hot coil profile containing ridges on ridge-buckle defects of cold rolled thin strip. <i>International Journal of Material Forming</i> , 2010 , 3, 21-27	2	2
176	Crystal plasticity investigation of friction effect on texture evolution of Al single crystal during ECAP. <i>Journal of Materials Science</i> , 2010 , 45, 4711-4717	4.3	20
175	Volume-grating digital speckle pattern interferometry for measurement of dynamic out-of-plane displacement fields. <i>Measurement: Journal of the International Measurement Confederation</i> , 2010 , 43, 479-482	4.6	3
174	Analysis of tribological feature of the oxide scale in hot strip rolling. <i>Tribology International</i> , 2010 , 43, 1339-1345	4.9	24
173	Atomistic simulation of nanoindentation of iron with different indenter shapes. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2009 , 223, 977-984	1.4	15
172	Optimization of Short Stroke Control Curve in Hot Strip Mill by FEM Modelling. <i>Advanced Materials Research</i> , 2009 , 83-86, 106-112	0.5	5
171	Experiment and molecular dynamics simulation of nanoindentation of body centered cubic iron. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 7307-13	1.3	12

170	Tribological features of roll surface in cold metal rolling. <i>International Journal of Surface Science and Engineering</i> , 2009 , 3, 407	1	
169	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
168	Influence of force-based crosstalk on the Δ wedge method in lateral force microscopy. <i>Measurement Science and Technology</i> , 2009 , 20, 055103	2	1
167	Development of Multiscale Simulation System for Nano-Processes. <i>Key Engineering Materials</i> , 2009 , 407-408, 452-455	0.4	
166	Mechanics of Scratch Marks in Cold Rolling of Thin Strip. <i>Advanced Materials Research</i> , 2009 , 76-78, 548-553	0.5	1
165	Analysis of Surface Roughness of Low Carbon Steel during Cold Rolling of Thin Strip. <i>Advanced Materials Research</i> , 2009 , 76-78, 544-547	0.5	1
164	The Effects of Shear Stress on the Lubrication Performances of Oil Film of Large-Scale Mill Bearing. <i>Advanced Materials Research</i> , 2009 , 76-78, 713-718	0.5	0
163	Surface Profile Simulation during Plane Strain Compression by Crystal Plasticity Finite Element Method. <i>Advanced Materials Research</i> , 2009 , 76-78, 538-543	0.5	
162	Significant enhancement of bond strength in the accumulative roll bonding process using nano-sized SiO ₂ particles. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4830-4834	5.3	86
161	Study on the oxidation of stainless steels 304 and 304L in humid air and the friction during hot rolling. <i>Wear</i> , 2009 , 267, 1741-1745	3.5	30
160	Experimental study of the effects of rough texture on surface deformation during cold metal forming. <i>Wear</i> , 2009 , 267, 1746-1751	3.5	2
159	Cavitation erosion resistance of NiTi thin films produced by Filtered Arc Deposition. <i>Wear</i> , 2009 , 267, 233-243	3.5	23
158	Atomic-scale anisotropy of nanoscratch behavior of single crystal iron. <i>Wear</i> , 2009 , 267, 1961-1966	3.5	13
157	Molecular dynamics simulation of effect of indenter shape on nanoscratch of Ni. <i>Wear</i> , 2009 , 267, 1998-2002	3.5	37
156	Analysis of Surface Temperature and Thermal Stress Field of Slab Continuous Casting. <i>Advanced Materials Research</i> , 2009 , 76-78, 554-559	0.5	
155	Analysis of cold rolling of ultra thin strip. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4584-4589	3.5	44
154	Modeling uniaxial tensile deformation of polycrystalline Al using CPFEM. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008 , 15, 43-47		7
153	Modeling texture development during cold rolling of IF steel by crystal plasticity finite element method. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008 , 15, 696-701		4

152	Surface roughness micro-deformation and transfer of bulk steel in hot rolling. <i>International Journal of Surface Science and Engineering</i> , 2008 , 2, 139	1	1
151	Molecular dynamics simulation of crack propagation on different slip planes of BCC iron 2008 ,		2
150	A NUMERICAL SIMULATION OF STRIP PROFILE IN A 6-HIGH COLD ROLLING MILL. <i>International Journal of Modern Physics B</i> , 2008 , 22, 5655-5660	1.1	4
149	DYNAMIC SIMULATION OF THE TAILING PROCESS IN HOT FINISHING MILL. <i>International Journal of Modern Physics B</i> , 2008 , 22, 5661-5666	1.1	
148	Experimental and theoretical investigation of the asperity flattening process under large bulk strain. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2008 , 222, 271-278	1.4	3
147	A study of microstructural evolution around crack tip using crystal plasticity finite-element method. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2008 , 222, 183-192	1.4	9
146	System modelling of a lateral force microscope. <i>Nanotechnology</i> , 2008 , 19, 455707	3.4	4
145	A study on the cross-sectional profile of flat rolled wire. <i>Journal of Materials Processing Technology</i> , 2008 , 200, 325-330	5.3	17
144	A flying gauge change model in tandem cold strip mill. <i>Journal of Materials Processing Technology</i> , 2008 , 204, 152-161	5.3	13
143	Modelling of the effect of friction on cold strip rolling. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 85-90	5.3	32
142	Simulation of rolling behaviour of cubic oriented al single crystal with crystal plasticity FEM. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 79-84	5.3	32
141	Semi-solid continuous casting/extrusion of AA6201 feed rods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 108-114	5.3	10
140	Analysis of premature failure of work rolls in a cold strip plant. <i>Wear</i> , 2007 , 263, 1442-1446	3.5	17
139	Mixed film lubrication of strip rolling using O/W emulsions. <i>Tribology International</i> , 2007 , 40, 709-716	4.9	21
138	Molecular dynamics simulation about porous thin-film growth in secondary deposition. <i>Applied Surface Science</i> , 2007 , 253, 7471-7477	6.7	4
137	Measurement of curvature distribution using digital speckle three-shearing aperture interferometry. <i>Optics and Laser Technology</i> , 2007 , 39, 926-928	4.2	4
136	Modelling of coupling flow and temperature fields in molten pool during twin-roll strip casting process. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 339-343	5.3	25
135	Application of fuzzy control of laminar cooling for hot rolled strip. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 715-719	5.3	19

134	Theoretical investigation about secondary deposition of thin-film formation by molecular dynamics simulation. <i>Journal of Crystal Growth</i> , 2007 , 303, 530-536	1.6	1
133	Contact mechanics and work roll wear in cold rolling of thin strip. <i>Wear</i> , 2007 , 263, 1447-1453	3.5	19
132	Measurement of the forward slip in cold strip rolling using a high speed digital camera. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 1528-1533	1.6	5
131	Surface roughness transformation and deformation of the scale in hot rolling. <i>International Journal of Surface Science and Engineering</i> , 2007 , 1, 125	1	1
130	Asymmetric Cold Rolling of Thin Strip with Roll Edge Kiss 2007 ,		3
129	A Method to Improve Model Calculation Accuracy of Process Control in Tandem Cold Mills 2007 ,		4
128	Incorporating the Development of a Graphical User Interface in Courses Teaching Numerical Methods for Engineers. <i>International Journal of Mechanical Engineering Education</i> , 2007 , 35, 46-55	0.6	2
127	Utilization of the finite element and Monte Carlo model for simulating the recrystallization of inhomogeneous deformation of copper. <i>Computational Materials Science</i> , 2007 , 38, 765-773	3.2	14
126	Simulation of polycrystalline aluminum tensile test with crystal plasticity finite element method. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 1412-1416	3.3	8
125	Mechanics of roll edge contact in cold rolling of thin strip. <i>International Journal of Mechanical Sciences</i> , 2006 , 48, 697-706	5.5	19
124	Modelling of the Development of Initial Crack under Hot Rolling Condition. <i>Materials Science Forum</i> , 2006 , 505-507, 1291-1296	0.4	3
123	Effect of Temperature and Strain Amplitude on Dislocation Structure of M963 Superalloy during High-Temperature Low Cycle Fatigue. <i>Materials Transactions</i> , 2006 , 47, 67-71	1.3	6
122	Characterisation of thin oxide scale and its surface roughness in hot metal rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 434-438	5.3	27
121	Analysis of thrust force in a work roll shifting mill. <i>International Journal of Mechanical Sciences</i> , 2006 , 48, 1095-1102	5.5	4
120	An approach to analyse the special rolling of thin strip. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 130-133	5.3	2
119	A study on crack healing in 1045 steel. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 233-237	5.3	37
118	Prediction of coiling temperature on run-out table of hot strip mill using data mining. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 121-125	5.3	21
117	A method to produce aluminum alloy tube busbars by continuous casting-expansion extrusion. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 163-166	5.3	3

116	Modelling of oxide scale surface roughness in hot metal forming. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 126-129	5.3	19
115	A thermal analysis of strip-rolling in mixed-film lubrication with O/W emulsions. <i>Tribology International</i> , 2006 , 39, 1591-1600	4.9	22
114	Experimental and numerical study of O/W emulsion lubricated strip rolling in mixed film regime. <i>Tribology Letters</i> , 2006 , 25, 23-32	2.8	9
113	Computer simulation of the effect of post annealing parameters on the microstructure inhomogeneity of the non-uniformly deformed copper. <i>Journal of Computer-Aided Materials Design</i> , 2006 , 13, 221-232		5
112	Experimental and Numerical Study of Emulsion Lubricated Strip Rolling 2005 , 549		1
111	Modeling the Rolling of Ribbed Strip by a 3D Rigid Viscoplastic FEM. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2005 , 127, 386-393	3.3	2
110	Computational Intelligence-Based Process Optimization for Tandem Cold Rolling. <i>Materials and Manufacturing Processes</i> , 2005 , 20, 479-496	4.1	20
109	Study of work roll edge contact in asymmetrical rolling by modified influence function method. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 512-518	5.3	14
108	Adaptive calculation of deformation resistance model of online process control in tandem cold mill. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 585-590	5.3	18
107	Effect of carbides on the creep properties of a Ni-base superalloy M963. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 397, 297-304	5.3	82
106	Effect of heat treatment on microstructures and tensile properties of Ni-base superalloy M963. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 398, 128-136	5.3	40
105	High temperature low cycle fatigue behavior of Ni-base superalloy M963. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 402, 33-41	5.3	19
104	High-temperature creep-deformation behavior of the Ni-based superalloy M963. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2385-2391	2.3	19
103	A Simulation of Surface Roughness in Hot Strip Rolling. <i>AIP Conference Proceedings</i> , 2004 ,	0	3
102	Modeling of Surface Asperity Flattening in Metal Forming. <i>Key Engineering Materials</i> , 2004 , 274-276, 415-420	0.4	1
101	Friction Consideration in Sheet Metal Rolling. <i>Key Engineering Materials</i> , 2004 , 274-276, 505-510	0.4	
100	An investigation into the thermal mixing in journal bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2004 , 218, 379-389	1.4	9
99	Mechanics of Thin Strip Steering in Hot Rolling. <i>AIP Conference Proceedings</i> , 2004 ,	0	4

98	Simulation of crack healing in BCC Fe. <i>Scripta Materialia</i> , 2004 , 51, 583-587	5.6	26
97	Influence of in-plane displacement and strain components on curvature and twist fringe formation in simultaneous measurement of pure curvature and twist fringe distributions. <i>Measurement: Journal of the International Measurement Confederation</i> , 2004 , 36, 29-36	4.6	1
96	Theory and experiment of spatially and temporally partially coherent speckle shearing interferometry. <i>Optics and Laser Technology</i> , 2004 , 36, 43-45	4.2	6
95	Volume-grating phase-shifting digital speckle pattern interferometry used for measurement of out-of-plane displacement field. <i>Optics and Laser Technology</i> , 2004 , 36, 117-120	4.2	8
94	Friction variation in the cold-rolling process. <i>Tribology International</i> , 2004 , 37, 177-183	4.9	24
93	A 3-D finite element method analysis of cold rolling of thin strip with friction variation. <i>Tribology International</i> , 2004 , 37, 185-191	4.9	43
92	Mechanical modelling of friction variation in slab edging with a finite element method approach. <i>Tribology International</i> , 2004 , 37, 733-742	4.9	5
91	Modelling of work roll edge contact in thin strip rolling. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1280-1285	5.3	13
90	A FEM modelling of the elastic deformation zones in flat rolling. <i>Journal of Materials Processing Technology</i> , 2004 , 146, 167-174	5.3	11
89	Finite element modelling of mixed film lubrication in cold strip rolling. <i>Journal of Materials Processing Technology</i> , 2004 , 151, 242-247	5.3	9
88	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
87	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
86	Three-dimensional thermo-mechanical finite element simulation of ribbed strip rolling with friction variation. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 1139-1155	2.2	10
85	Gaussian filters and filter synthesis using a Hermite/Laguerre neural network. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 206-14		6
84	Asymmetric kernel regression. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 276-82		12
83	Simulation of friction variation in hot strip rolling by 3D rigid plastic finite element method. <i>Australian Journal of Mechanical Engineering</i> , 2003 , 1, 43-47	1	1
82	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
81	Dynamic laser speckle method for determining the relative velocity between two objects. <i>Optics Communications</i> , 2003 , 219, 1-8	2	3

80	Measurement of dynamic out-of-plane displacement fields using rotating-mask speckle photography. <i>Optics Communications</i> , 2003 , 224, 21-25	2	1
79	Influence of in-plane displacement on slope fringe formation in electronic speckle shearing interferometry. <i>Optics Communications</i> , 2003 , 224, 45-49	2	
78	Application of digital image correlation technique to dynamic measurement of the velocity field in the deformation zone in cold rolling. <i>Optics and Lasers in Engineering</i> , 2003 , 39, 479-488	4.6	26
77	Forward slip measurements in cold rolling by laser Doppler velocimetry: uncertainty analysis and accuracy improvement. <i>Journal of Materials Processing Technology</i> , 2003 , 133, 348-352	5.3	11
76	A fuzzy algorithm for flatness control in hot strip mill. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 123-128	5.3	14
75	Effect of rolling parameters on cold rolling of thin strip during work roll edge contact. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 535-541	5.3	18
74	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
73	Comparison of asperity flattening under different wavelength models for sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 635-640	5.3	3
72	Surface characteristics of oxide scale in hot strip rolling. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 76-83	5.3	35
71	Finite element simulation of cold rolling of thin strip. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 542-547	5.3	62
70	Modeling and optimization of threading process for shape control in tandem cold rolling. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 562-568	5.3	9
69	Hermite neural network correlation and application. <i>IEEE Transactions on Signal Processing</i> , 2003 , 51, 3210-3219	4.8	13
68	Comprehensive influence of in-plane displacement, double-aperture orientation and wedge-shearing direction on slope fringe formation in speckle shearing interferometry. <i>Journal of Modern Optics</i> , 2003 , 50, 1365-1372	1.1	
67	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
66	Analytical approach to the cold-and-hot bond rolling of sandwich sheet with outer hard and inner soft layers. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 664-669	5.3	21
65	A 3D finite element analysis of the hot rolling of strip with lubrication. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 638-644	5.3	27
64	A design of a third-order CVC roll profile. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 645-648	5.3	23
63	A three-dimensional thermo-mechanical finite element model of complex strip rolling considering sticking and slipping friction. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 649-656	5.3	7

62	An experimental investigation of steel surface characteristic transfer by cold rolling. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 657-663	5:3	25
61	Thermo-mechanical analysis of ribbed strip rolling by a three-dimensional rigid-visco-plastic FEM. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 189-194	5:3	3
60	A thermal mixed film lubrication model in cold rolling. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 202-207	5:3	6
59	Numerical modelling of the thermal deformation of CVC roll in hot strip rolling. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 219-223	5:3	26
58	A finite-element simulation of asperity flattening in metal forming. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 450-455	5:3	9
57	Elastic-plastic finite element method simulation of thin strip with tension in cold rolling. <i>Journal of Materials Processing Technology</i> , 2002 , 130-131, 511-515	5:3	33
56	Influence of in-plane displacement and strain components on twist fringe distributions in measurement of pure twist fringes. <i>Optics Communications</i> , 2002 , 204, 83-90	2	1
55	Influence of displacement and its first- and second-order derivative components on curvature fringe formations in speckle shearography. <i>Applied Optics</i> , 2002 , 41, 4557-61	1:7	7
54	ANALYSIS OF TRANSIENT TEMPERATURE FIELD ON THE TRANSVERSE SECTION OF HOT STRIP 2002 ,		2
53	304 Modelling of Thin Strip Cold Rolling with Friction Variation by A 3-D Finite Element Method. <i>The Proceedings of the JSME Materials and Processing Conference (M&P)</i> , 2002 , 10.1, 170-175		
52	Volume-grating speckle interferometry used for measurement of large shearing out-of-plane displacement field 2001 ,		2
51	Measurements of velocity distributions in the deformation zone in cold rolling by a scanning LDV. <i>Optics and Lasers in Engineering</i> , 2001 , 35, 41-49	4:6	26
50	Modelling of the rolling processes by a 3-D rigid plastic/visco-plastic finite element method with shifted ICCG method. <i>Computers and Structures</i> , 2001 , 79, 2727-2740	4:5	8
49	Friction measurement in cold rolling. <i>Journal of Materials Processing Technology</i> , 2001 , 111, 142-145	5:3	36
48	A simulation of three-dimensional metal rolling processes by rigid-plastic finite element method. <i>Journal of Materials Processing Technology</i> , 2001 , 112, 144-151	5:3	27
47	A method to analyse the rolling of strip with ribs by 3D rigid visco-plastic finite element method. <i>Journal of Materials Processing Technology</i> , 2001 , 117, 146-152	5:3	17
46	Influence of shearing direction on slope fringe distributions in the presence of in-plane displacement and strain components in double-aperture speckle shearing interferometry. <i>Optics Communications</i> , 2000 , 174, 69-74	2	5
45	Toward a heuristic optimum design of rolling schedules for tandem cold rolling mills. <i>Engineering Applications of Artificial Intelligence</i> , 2000 , 13, 397-406	7:2	43

44	3-D finite element modelling of ribbed strip rolling. <i>International Journal of Machine Tools and Manufacture</i> , 2000 , 40, 2139-2154	9.4	6
43	Influence of in-plane displacement and double-aperture orientation on slope fringe formation in double-shearing-aperture speckle interferometry. <i>Optical Engineering</i> , 2000 , 39, 2124	1.1	7
42	Simultaneous measurement of pure curvature and twist distribution fields by a five-aperture shearing and two-fourier filtering technique. <i>Applied Optics</i> , 2000 , 39, 2577-83	1.7	8
41	Modelling of Rolling of Strips with Longitudinal Ribs by 3-D Rigid Visco-plastic Finite Element Method.. <i>ISIJ International</i> , 2000 , 40, 373-379	1.7	9
40	Measurement of pure twist fringe distribution by using a double whole-field filtering technique. <i>Measurement Science and Technology</i> , 1999 , 10, 1092-1096	2	1
39	Mixed-Film Lubrication Theory and Tension Effects on Metal Rolling Processes. <i>Journal of Tribology</i> , 1999 , 121, 908-915	1.8	33
38	Measurement of pure curvature fringe distribution by using a double whole-field filtering technique. <i>Optics and Laser Technology</i> , 1999 , 31, 289-294	4.2	6
37	Influence of in-plane displacement and strain components on slope fringe distributions in double-aperture speckle wedge-shearing interferometry. <i>Optics and Laser Technology</i> , 1999 , 31, 549-554	4.2	9
36	A METHOD TO OBTAIN EXACT FREQUENCY CHARACTERISTICS OF HARMONIC SIGNALS. <i>Mechanical Systems and Signal Processing</i> , 1999 , 13, 523-529	7.8	2
35	Strip Thickness Control of Reversing Mill Using Self-tuning PID Neurocontroller.. <i>ISIJ International</i> , 1999 , 39, 39-46	1.7	6
34	Spherical Gaussian beam model for prediction of three-dimensional fringe patterns in a laser Doppler anemometer measuring volume. <i>Optics and Lasers in Engineering</i> , 1998 , 30, 287-297	4.6	4
33	FE analysis of cutting tool temperature field with adhering layer formation. <i>Wear</i> , 1998 , 214, 252-258	3.5	12
32	Identification of sixteen force coefficients of two journal bearings from impulse responses. <i>Wear</i> , 1997 , 212, 206-212	3.5	44
31	Interference Patterns of Two Focused Gaussian Beams in an LDA Measuring Volume. <i>Optics and Lasers in Engineering</i> , 1997 , 27, 395-407	4.6	15
30	Dynamic calibration of a laser diode LDA probe. <i>Optics and Lasers in Engineering</i> , 1997 , 28, 337-342	4.6	1
29	Experimental Study of Freely Alignable Journal BearingsPart 1: Static Characteristics. <i>Journal of Tribology</i> , 1996 , 118, 498-502	1.8	13
28	Experimental Study of Freely Alignable Journal BearingsPart 2: Dynamic Characteristics. <i>Journal of Tribology</i> , 1996 , 118, 503-508	1.8	13
27	Development of a 2D solid state LDA for velocity measurements in turbulent bearing flow. <i>Measurement Science and Technology</i> , 1996 , 7, 1605-1610	2	

26	The Effect of Perturbation Amplitudes on Eight Force Coefficients of Journal Bearings. <i>Tribology Transactions</i> , 1996 , 39, 469-475	1.8	32
25	Measurements in microscopic flow with a solid-state LDA. <i>Experiments in Fluids</i> , 1995 , 19, 293-294	2.5	29
24	A High Performance Journal Bearing With Controlled Elastic Deflection. <i>Journal of Tribology</i> , 1995 , 117, 702-708	1.8	3
23	Misalignment Effect on the Static and Dynamic Characteristics of Hydrodynamic Journal Bearings. <i>Journal of Tribology</i> , 1995 , 117, 717-723	1.8	20
22	Stability of Finite Journal Bearings From Linear and Nonlinear Bearing Forces. <i>Tribology Transactions</i> , 1995 , 38, 627-635	1.8	29
21	Identification of sixteen dynamic coefficients of two journal bearings from experimental unbalance responses. <i>Wear</i> , 1994 , 177, 63-69	3.5	32
20	A Study of Fluid Velocities in Tribological Fluid Film. <i>Journal of Tribology</i> , 1994 , 116, 133-138	1.8	4
19	A Transition-Turbulent Lubrication Theory Using Mixing Length Concept. <i>Journal of Tribology</i> , 1993 , 115, 591-596	1.8	
18	A Thermo-Elasto-Hydrodynamic Study of Journal Bearing With Controlled Deflection. <i>Journal of Tribology</i> , 1993 , 115, 550-556	1.8	6
17	An analysis of superlaminar diaphragm thrust bearings, including misalignment and thermal effects. <i>Wear</i> , 1993 , 167, 133-142	3.5	1
16	An analysis of sector-shaped thrust bearings operating in the transition regime. <i>Wear</i> , 1993 , 160, 291-299	3.5	5
15	Asymmetrical Rolling and Self Excited Vibrations in a Hot Roughing Mill 1993 ,		2
14	An Expression of Reynolds Stresses in Turbulent Lubrication Theory. <i>Journal of Tribology</i> , 1992 , 114, 57-60	1.8	6
13	A sensitive optical receiver with application to a visible laser diode anemometer. <i>Measurement Science and Technology</i> , 1992 , 3, 685-686	2	1
12	A visible wavelength solid-state LDA and application to thin channel flow. <i>Measurement Science and Technology</i> , 1992 , 3, 852-857	2	4
11	Hydrodynamic Thrust Bearings: Theory and Experiment. <i>Journal of Tribology</i> , 1991 , 113, 633-638	1.8	7
10	Dynamics characteristics of a SCARA robot subject to NC2 velocity trajectories with different payloads. <i>Robotics and Computer-Integrated Manufacturing</i> , 1989 , 6, 259-264	9.2	
9	Discussion: [The Effect of Lubricant Inertia Near the Leading Edge of a Plane Slider Bearing] (Buckholz, R. H., 1987, ASME J. Tribol., 109, pp. 608-4). <i>Journal of Tribology</i> , 1988 , 110, 189-190	1.8	

8	Discussion: Misalignment in Thrust Bearings Including Thermal and Cavitation Effects [Heshmat, H., and Pinkus, Oscar, 1987, ASME J. Tribol., 109, pp. 108-114]. <i>Journal of Tribology</i> , 1987 , 109, 114-114	1.8	1
7	Thermo-Elasto-Hydrodynamic-Analysis of Step and Diaphragm Thrust Bearing. <i>Journal of Tribology</i> , 1986 , 108, 225-230	1.8	2
6	A direct method to evaluate hole-alignment error in residual-stress measurement. <i>Experimental Mechanics</i> , 1985 , 25, 43-47	2.6	10
5	An Investigation of Diaphragm-Type Thrust Bearings Part II: Theory. <i>Journal of Lubrication Technology</i> , 1975 , 97, 577-584		1
4	A Numerical Simulation of Finite-Width Thrust Bearings, Taking into Account Viscosity Variation with Temperature and Pressure. <i>Journal of Mechanical Engineering Science</i> , 1975 , 17, 1-10		11
3	Oil-Film Temperature Distribution in an Infinitely wide Slider Bearing: An Application of the Finite-Element Method. <i>Journal of Mechanical Engineering Science</i> , 1973 , 15, 311-320		16
2	Deformation Mechanism in Nanoindentation of Ti ₆₃ .375Fe ₃₄ .125Sn _{2.5} Alloy 971-977		
1	Tribological behavior comparisons of high chromium stainless and mild steels against high-speed steel and ceramics at high temperatures. <i>Friction</i> , 1	5.6	1