

# Kiet A Tieu

## List of Publications by Year in descending order

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480  
papers

8,300  
citations

61945

43  
h-index

155592

55  
g-index

496  
all docs

496  
docs citations

496  
times ranked

4733  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.4	125
2	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.	3.0	114
3	Effect of carbides on the creep properties of a Ni-base superalloy M963. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 397, 297-304.	2.6	109
4	Significant enhancement of bond strength in the accumulative roll bonding process using nano-sized SiO <sub>2</sub> particles. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4830-4834.	3.1	106
5	A review on atomistic simulation of grain boundary behaviors in face-centered cubic metals. <i>Computational Materials Science</i> , 2016, 118, 180-191.	1.4	78
6	Investigation of ultrafine grained AA1050 fabricated by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 148-155.	2.6	77
7	An overview of inorganic polymer as potential lubricant additive for high temperature tribology. <i>Tribology International</i> , 2016, 102, 620-635.	3.0	74
8	Finite element simulation of cold rolling of thin strip. <i>Journal of Materials Processing Technology</i> , 2003, 140, 542-547.	3.1	72
9	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.	3.8	67
10	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.	3.6	67
11	Annealing effect on microstructure and mechanical properties of Al/Ti/Al laminate sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 660, 195-204.	2.6	67
12	Asymmetric cryorolling for fabrication of nanostructural aluminum sheets. <i>Scientific Reports</i> , 2012, 2, 772.	1.6	63
13	Mechanical properties and microstructure of a Ti-6Al-4V alloy subjected to cold rolling, asymmetric rolling and asymmetric cryorolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 710, 10-16.	2.6	63
14	Ultrafine grained AA1050/AA6061 composite produced by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 345-351.	2.6	61
15	Atomistic Simulation of Tensile Deformation Behavior of $\sim 5^\circ$ Tilt Grain Boundaries in Copper Bicrystal. <i>Scientific Reports</i> , 2014, 4, 5919.	1.6	59
16	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.	3.8	58
17	Mechanical properties of Al-Mg-Si alloy sheets produced using asymmetric cryorolling and ageing treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 568, 212-218.	2.6	58
18	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.	0.7	58

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19	Toward a heuristic optimum design of rolling schedules for tandem cold rolling mills. <i>Engineering Applications of Artificial Intelligence</i> , 2000, 13, 397-406.	4.3	57
20	Special Rolling Techniques for Improvement of Mechanical Properties of Ultrafine-Grained Metal Sheets: a Review. <i>Advanced Engineering Materials</i> , 2016, 18, 754-769.	1.6	57
21	A molecular dynamics simulation of boundary lubrication: The effect of n-alkanes chain length and normal load. <i>Wear</i> , 2013, 301, 62-69.	1.5	56
22	The negative Poisson's ratio and strengthening mechanism of nanolayered graphene/Cu composites. <i>Carbon</i> , 2019, 143, 125-137.	5.4	56
23	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.	3.0	55
24	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.	4.4	55
25	Analysis of cold rolling of ultra thin strip. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4584-4589.	3.1	54
26	Enhanced mechanical properties of ARB-processed aluminum alloy 6061 sheets by subsequent asymmetric cryorolling and ageing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 256-261.	2.6	54
27	Identification of sixteen force coefficients of two journal bearings from impulse responses. <i>Wear</i> , 1997, 212, 206-212.	1.5	53
28	Molecular dynamics simulation of effect of indenter shape on nanoscratch of Ni. <i>Wear</i> , 2009, 267, 1998-2002.	1.5	53
29	A deformation mechanism of hard metal surrounded by soft metal during roll forming. <i>Scientific Reports</i> , 2014, 4, 5017.	1.6	51
30	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 687, 343-351.	2.6	51
31	The shear response of copper bicrystals with $\{111\}$ symmetric and asymmetric tilt grain boundaries by molecular dynamics simulation. <i>Nanoscale</i> , 2015, 7, 7224-7233.	2.8	50
32	Comparison of the scuffing behaviour and wear resistance of candidate engineered coatings for automotive piston rings. <i>Tribology International</i> , 2017, 106, 10-22.	3.0	50
33	A study on crack healing in 1045 steel. <i>Journal of Materials Processing Technology</i> , 2006, 177, 233-237.	3.1	49
34	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.	2.8	49
35	Adsorption of Normal-Alkanes on Fe(110), FeO(110), and Fe <sub>2</sub> O <sub>3</sub> (0001): Influence of Iron Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12999-13010.	1.5	49
36	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.	3.1	49

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37	Oxide scales growth of low-carbon steel at high temperatures. Journal of Materials Processing Technology, 2004, 155-156, 1300-1306.	3.1	48
38	Surface characteristics and wettability of superhydrophobic silanized inorganic glass coating surfaces textured with a picosecond laser. Applied Surface Science, 2021, 537, 147808.	3.1	48
39	Effect of heat treatment on microstructures and tensile properties of Ni-base superalloy M963. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 398, 128-136.	2.6	47
40	Nano-coupled heterostructure induced excellent mechanical and tribological properties in AlCoCrFeNi high entropy alloy. Tribology International, 2021, 154, 106662.	3.0	47
41	A 3-D finite element method analysis of cold rolling of thin strip with friction variation. Tribology International, 2004, 37, 185-191.	3.0	46
42	High temperature oxide scale characteristics of low carbon steel in hot rolling. Journal of Materials Processing Technology, 2004, 155-156, 1307-1312.	3.1	45
43	Tribological performance of CrN and CrN/GLC coated components for automotive engine applications. Journal of Alloys and Compounds, 2017, 695, 433-442.	2.8	44
44	Effects of oxidation on friction and wear properties of eutectic high-entropy alloy AlCoCrFeNi <sub>2.1</sub> . Tribology International, 2021, 160, 107017.	3.0	44
45	Three dimensional microstructure study of oxide scale formed on a high-speed steel by means of SEM, FIB and TEM. Corrosion Science, 2011, 53, 3603-3611.	3.0	43
46	A combined experimental-numerical approach for determining mechanical properties of aluminum subjects to nanoindentation. Scientific Reports, 2015, 5, 15072.	1.6	43
47	Friction measurement in cold rolling. Journal of Materials Processing Technology, 2001, 111, 142-145.	3.1	42
48	Brittle versus ductile behaviour of nanotwinned copper: A molecular dynamics study. Acta Materialia, 2015, 89, 1-13.	3.8	42
49	Effects of grain boundary on wear of graphene at the nanoscale: A molecular dynamics study. Carbon, 2019, 143, 578-586.	5.4	42
50	Modelling of the effect of friction on cold strip rolling. Journal of Materials Processing Technology, 2008, 201, 85-90.	3.1	41
51	Fabrication of Nanostructured Aluminum Sheets Using Four-Layer Accumulative Roll Bonding. Materials and Manufacturing Processes, 2014, 29, 448-453.	2.7	41
52	Stacking fault tetrahedron induced plasticity in copper single crystal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 27-38.	2.6	41
53	Dynamic interaction between grain boundary and stacking fault tetrahedron. Scripta Materialia, 2018, 144, 78-83.	2.6	41
54	Measurements in microscopic flow with a solid-state LDA. Experiments in Fluids, 1995, 19, 293-294.	1.1	40

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55	The Effect of Perturbation Amplitudes on Eight Force Coefficients of Journal Bearings. Tribology Transactions, 1996, 39, 469-475.	1.1	40
56	Fabrication of ultra-thin nanostructured bimetallic foils by Accumulative Roll Bonding and Asymmetric Rolling. Scientific Reports, 2013, 3, 2373.	1.6	40
57	A simulation of wear behaviour of high-speed steel hot rolls by means of high temperature pin-on-disc tests. Wear, 2013, 302, 1310-1318.	1.5	40
58	Computational fluid dynamics simulation of carbon dioxide dispersion in a complex environment. Journal of Loss Prevention in the Process Industries, 2016, 40, 419-432.	1.7	40
59	Surface characteristics of oxide scale in hot strip rolling. Journal of Materials Processing Technology, 2003, 140, 76-83.	3.1	39
60	Identification of sixteen dynamic coefficients of two journal bearings from experimental unbalance responses. Wear, 1994, 177, 63-69.	1.5	38
61	Mixed-Film Lubrication Theory and Tension Effects on Metal Rolling Processes. Journal of Tribology, 1999, 121, 908-915.	1.0	38
62	Elastic-plastic finite element method simulation of thin strip with tension in cold rolling. Journal of Materials Processing Technology, 2002, 130-131, 511-515.	3.1	38
63	Study on the oxidation of stainless steels 304 and 304L in humid air and the friction during hot rolling. Wear, 2009, 267, 1741-1745.	1.5	38
64	Circular domain features based condition monitoring for low speed slewing bearing. Mechanical Systems and Signal Processing, 2014, 45, 114-138.	4.4	38
65	FE method to predict damage formation on curved track for various worn status of wheel/rail profiles. Wear, 2015, 322-323, 61-75.	1.5	38
66	The formation and destruction of stacking fault tetrahedron in fcc metals: A molecular dynamics study. Scripta Materialia, 2017, 136, 78-82.	2.6	38
67	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. Wear, 2020, 460-461, 203440.	1.5	38
68	A molecular dynamics simulation of 3D rough lubricated contact. Tribology International, 2013, 67, 217-221.	3.0	37
69	A study of abrasive wear on high speed steel surface in hot rolling by Discrete Element Method. Tribology International, 2017, 110, 66-76.	3.0	37
70	Thermo-mechanical coupled finite element analysis of rolling contact fatigue and wear properties of a rail steel under different slip ratios. Tribology International, 2020, 141, 105943.	3.0	37
71	Friction variation in the cold-rolling process. Tribology International, 2004, 37, 177-183.	3.0	36
72	Stability of Finite Journal Bearings—from Linear and Nonlinear Bearing Forces. Tribology Transactions, 1995, 38, 627-635.	1.1	35

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73	A 3D finite element analysis of the hot rolling of strip with lubrication. Journal of Materials Processing Technology, 2002, 125-126, 638-644.	3.1	35
74	An experimental investigation of steel surface characteristic transfer by cold rolling. Journal of Materials Processing Technology, 2002, 125-126, 657-663.	3.1	35
75	An application of nonlinear feature extraction - A case study for low speed slewing bearing condition monitoring and prognosis. , 2013, , .		35
76	Numerical modelling of the thermal deformation of CVC roll in hot strip rolling. Journal of Materials Processing Technology, 2002, 130-131, 219-223.	3.1	34
77	Simulation of rolling behaviour of cubic oriented al single crystal with crystal plasticity FEM. Journal of Materials Processing Technology, 2008, 201, 79-84.	3.1	34
78	Tensile fracture of ultrafine grained aluminum 6061 sheets by asymmetric cryorolling for microforming. International Journal of Damage Mechanics, 2014, 23, 1077-1095.	2.4	34
79	The Influence of Alkali Metal Polyphosphate on the Tribological Properties of Heavily Loaded Steel on Steel Contacts at Elevated Temperatures. Advanced Materials Interfaces, 2015, 2, 1500032.	1.9	34
80	Surface Film Adsorption and Lubricity of Soybean Oil In-Water Emulsion and Triblock Copolymer Aqueous Solution: A Comparative Study. Lubricants, 2017, 5, 1.	1.2	34
81	Theoretical and experimental investigation of thermal and oxidation behaviours of a high speed steel work roll during hot rolling. International Journal of Mechanical Sciences, 2017, 131-132, 811-826.	3.6	33
82	A new finite element model for multi-cycle accumulative roll-bonding process and experiment verification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 93-101.	2.6	33
83	The effect of expanded graphite with sodium metasilicate as lubricant at high temperature. Carbon, 2020, 159, 345-356.	5.4	33
84	A simulation of three-dimensional metal rolling processes by rigidâ€“plastic finite element method. Journal of Materials Processing Technology, 2001, 112, 144-151.	3.1	32
85	Application of digital image correlation technique to dynamic measurement of the velocity field in the deformation zone in cold rolling. Optics and Lasers in Engineering, 2003, 39, 479-488.	2.0	32
86	Thin film lubrication of hexadecane confined by iron and iron oxide surfaces: A crucial role of surface structure. Journal of Chemical Physics, 2015, 143, 164702.	1.2	32
87	Nanomechanical properties of TiCN and TiCN/Ti coatings on Ti prepared by Filtered Arc Deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 56-64.	2.6	32
88	Characterisation of thin oxide scale and its surface roughness in hot metal rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 435-436, 434-438.	2.6	31
89	Analysis of tribological feature of the oxide scale in hot strip rolling. Tribology International, 2010, 43, 1339-1345.	3.0	31
90	Crystal plasticity finite element method modelling of indentation size effect. International Journal of Solids and Structures, 2015, 54, 42-49.	1.3	31

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91	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.	3.6	31
92	Simulation of crack healing in BCC Fe. <i>Scripta Materialia</i> , 2004, 51, 583-587.	2.6	30
93	Cavitation erosion resistance of NiTi thin films produced by Filtered Arc Deposition. <i>Wear</i> , 2009, 267, 233-243.	1.5	30
94	An investigation into the tribological behaviour of a work roll material at high temperature. <i>Wear</i> , 2011, 273, 43-48.	1.5	30
95	Influence of cold rolling reduction on the deformation behaviour and crystallographic orientation development. <i>Computational Materials Science</i> , 2014, 81, 2-9.	1.4	30
96	Tribochemical Behavior of Phosphate Compounds at an Elevated Temperature. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25742-25751.	1.5	30
97	Tribological Behavior of Aqueous Copolymer Lubricant in Mixed Lubrication Regime. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5641-5652.	4.0	30
98	Progress in Indentation Study of Materials via Both Experimental and Numerical Methods. <i>Crystals</i> , 2017, 7, 258.	1.0	30
99	Understanding the tribological impacts of alkali element on lubrication of binary borate melt. <i>RSC Advances</i> , 2018, 8, 28847-28860.	1.7	30
100	Tribological performance of a cost-effective CrFeNiAlO.3Ti0.3 high entropy alloy based self-lubricating composite in a wide temperature range. <i>Tribology International</i> , 2022, 174, 107743.	3.0	30
101	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.	2.0	29
102	Modeling texture evolution during ECAP of copper single crystal by crystal plasticity FEM. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 68-74.	2.6	29
103	Occurrence of surface defects on strips during hot rolling process by FEM. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 1161-1170.	1.5	29
104	Coupled grain boundary motion in aluminium: the effect of structural multiplicity. <i>Scientific Reports</i> , 2016, 6, 25427.	1.6	29
105	Chemical nature of alkaline polyphosphate boundary film at heated rubbing surfaces. <i>Scientific Reports</i> , 2016, 6, 26008.	1.6	29
106	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.	3.0	29
107	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.	1.5	29
108	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.	3.1	28

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109	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.	1.1	28
110	Computational Intelligence-Based Process Optimization for Tandem Cold Rolling. <i>Materials and Manufacturing Processes</i> , 2005, 20, 479-496.	2.7	28
111	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.	3.1	28
112	The effect of oxide scale of stainless steels on friction and surface roughness in hot rolling. <i>Wear</i> , 2011, 271, 2417-2425.	1.5	28
113	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.	1.1	28
114	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.	3.1	27
115	A design of a third-order CVC roll profile. <i>Journal of Materials Processing Technology</i> , 2002, 125-126, 645-648.	3.1	27
116	Numerical comparison between Berkovich and conical nano-indentations: Mechanical behaviour and micro-texture evolution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 57-65.	2.6	26
117	The influence of high temperature due to high adhesion condition on rail damage. <i>Wear</i> , 2015, 330-331, 571-580.	1.5	26
118	Molecular dynamics study on the grain boundary dislocation source in nanocrystalline copper under tensile loading. <i>Materials Research Express</i> , 2015, 2, 035009.	0.8	26
119	A thermal analysis of strip-rolling in mixed-film lubrication with O/W emulsions. <i>Tribology International</i> , 2006, 39, 1591-1600.	3.0	25
120	Mixed film lubrication of strip rolling using O/W emulsions. <i>Tribology International</i> , 2007, 40, 709-716.	3.0	25
121	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.	1.7	25
122	Roughness and Lubricant Effect on 3D Atomic Asperity Contact. <i>Tribology Letters</i> , 2014, 53, 215-223.	1.2	25
123	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.	1.6	25
124	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.	2.6	25
125	A fuzzy algorithm for flatness control in hot strip mill. <i>Journal of Materials Processing Technology</i> , 2003, 140, 123-128.	3.1	24
126	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.	3.1	24



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127	Prediction of coiling temperature on run-out table of hot strip mill using data mining. Journal of Materials Processing Technology, 2006, 177, 121-125.	3.1	24
128	Application of fuzzy control of laminar cooling for hot rolled strip. Journal of Materials Processing Technology, 2007, 187-188, 715-719.	3.1	24
129	Contact mechanics and work roll wear in cold rolling of thin strip. Wear, 2007, 263, 1447-1453.	1.5	24
130	Experimental study on wear and friction of work roll material with 4% Cr and added Ti in cold rolling. Wear, 2011, 271, 2500-2511.	1.5	24
131	A new insight into ductile fracture of ultrafine-grained Al-Mg alloys. Scientific Reports, 2015, 5, 9568.	1.6	24
132	A study on the texture evolution mechanism of nickel single crystal deformed by high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 239-248.	2.6	24
133	Multifunctional Bi-Layered Tribofilm Generated on Steel Contact Interfaces under High-Temperature Melt Lubrication. Journal of Physical Chemistry C, 2017, 121, 25092-25103.	1.5	24
134	Nonlinear elastic response of single crystal Cu under uniaxial loading by molecular dynamics study. Materials Letters, 2018, 227, 236-239.	1.3	24
135	Influence of Nb, V and Ti on peak strain of deformed austenite in Mo-based micro-alloyed steels. Journal of Materials Processing Technology, 2002, 125-126, 72-76.	3.1	23
136	Adaptive calculation of deformation resistance model of online process control in tandem cold mill. Journal of Materials Processing Technology, 2005, 162-163, 585-590.	3.1	23
137	Unusual Competitive and Synergistic Effects of Graphite Nanoplates in Engine Oil on the Tribofilm Formation. Advanced Materials Interfaces, 2019, 6, 1901081.	1.9	23
138	Mechanics of roll edge contact in cold rolling of thin strip. International Journal of Mechanical Sciences, 2006, 48, 697-706.	3.6	22
139	A flying gauge change model in tandem cold strip mill. Journal of Materials Processing Technology, 2008, 204, 152-161.	3.1	22
140	Atomic-scale anisotropy of nanoscratch behavior of single crystal iron. Wear, 2009, 267, 1961-1966.	1.5	22
141	Variations in the microstructure and mechanical properties of the oxide layer on high speed steel hot rolling work rolls. Journal of Materials Processing Technology, 2012, 212, 2597-2608.	3.1	22
142	Lubrication mechanism of sodium metasilicate at elevated temperatures through tribo-interface observation. Tribology International, 2020, 142, 105972.	3.0	22
143	Effect of cryogenic temperature equal channel angular pressing on microstructure, bulk texture and tensile properties of AA1050. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139190.	2.6	22
144	Achieving the excellent self-lubricity and low wear of TiAl intermetallics through the addition of copper coated graphite. Composites Part B: Engineering, 2020, 198, 108223.	5.9	22

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145	Study of wear and friction properties of a Co-free CrFeNiAl <sub>0.4</sub> Ti <sub>0.2</sub> high entropy alloy from 600 to 950 Å°C. Tribology International, 2022, 169, 107453.	3.0	22
146	Misalignment Effect on the Static and Dynamic Characteristics of Hydrodynamic Journal Bearings. Journal of Tribology, 1995, 117, 717-723.	1.0	21
147	A method to analyse the rolling of strip with ribs by 3D rigid visco-plastic finite element method. Journal of Materials Processing Technology, 2001, 117, 146-152.	3.1	21
148	Asymmetric Kernel Regression. IEEE Transactions on Neural Networks, 2004, 15, 276-282.	4.8	21
149	Analysis of premature failure of work rolls in a cold strip plant. Wear, 2007, 263, 1442-1446.	1.5	21
150	The structural, tribological, and rheological dependency of thin hexadecane film confined between iron and iron oxide surfaces under sliding conditions. Tribology International, 2017, 113, 26-35.	3.0	21
151	Enhanced materials performance of Al/Ti/Al laminate sheets subjected to cryogenic roll bonding. Journal of Materials Research, 2017, 32, 3761-3768.	1.2	21
152	Deformation twinning and dislocation processes in nanotwinned copper by molecular dynamics simulations. Computational Materials Science, 2018, 142, 59-71.	1.4	21
153	Temperature-mediated tribological characteristics of 40CrNiMoA steel and Inconel 718 alloy during sliding against Si <sub>3</sub> N <sub>4</sub> counterparts. Friction, 2021, 9, 1175-1197.	3.4	21
154	In-situ formed graphene providing lubricity for the FeCoCrNiAl based composite containing graphite nanoplate. Composites Part B: Engineering, 2021, 221, 109032.	5.9	21
155	Hermite neural network correlation and application. IEEE Transactions on Signal Processing, 2003, 51, 3210-3219.	3.2	20
156	High temperature low cycle fatigue behavior of Ni-base superalloy M963. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 402, 33-41.	2.6	20
157	Atomistic simulation of nanoindentation of iron with different indenter shapes. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2009, 223, 977-984.	1.0	20
158	Degradation Trend Estimation and Prognosis of Large Low Speed Slewing Bearing Lifetime. Applied Mechanics and Materials, 0, 493, 343-348.	0.2	20
159	Microstructure and Mechanical Properties of AA5005/AA6061 Laminated Composite Processed by Accumulative Roll Bonding. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 515-522.	1.0	20
160	Influence of outer corner angle (OCA) on the plastic deformation and texture evolution in equal channel angular pressing. Computational Materials Science, 2014, 81, 79-88.	1.4	20
161	High Strength and Ductility of Ultrathin Laminate Foils Using Accumulative Roll Bonding and Asymmetric Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 869-879.	1.1	20
162	Strengthening mechanisms and dislocation processes in &lt;math>\gamma</math>-textured nanotwinned copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 474-486.	2.6	20

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163	Influence of hydrogen environment on dislocation nucleation and fracture response of $\alpha$ -Fe grain boundaries in nickel. <i>Computational Materials Science</i> , 2019, 165, 40-50.	1.4	20
164	Synergistic and Competitive Effects between Zinc Dialkyldithiophosphates and Modern Generation of Additives in Engine Oil. <i>Lubricants</i> , 2021, 9, 35.	1.2	20
165	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.	0.3	19
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