Kiet A Tieu

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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	Significant enhancement of bond strength in the accumulative roll bonding process using nano-sized SiO2 particles. *Journal of Materials Processing Technology*, **2009**, 209, 4830-4834	5.3	86
456	Effect of carbides on the creep properties of a Ni-base superalloy M963. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 397, 297-304	5.3	82
455	Acoustic emission-based condition monitoring methods: Review and application for low speed slew bearing. *Mechanical Systems and Signal Processing*, **2016**, 72-73, 134-159	7.8	80
454	Finite element simulation of cold rolling of thin strip. *Journal of Materials Processing Technology*, **2003**, 140, 542-547	5.3	62
453	Crystal plasticity modeling of texture evolution and heterogeneity in equal channel angular pressing of aluminum single crystal. *Acta Materialia*, **2011**, 59, 3581-3592	8.4	60
452	Investigation of ultrafine grained AA1050 fabricated by accumulative roll bonding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 614, 148-155	5.3	59
451	Asymmetric cryorolling for fabrication of nanostructural aluminum sheets. *Scientific Reports*, **2012**, 2, 772	4.9	53
450	Study of vacancy-type defects by positron annihilation in ultrafine-grained aluminum severely deformed at room and cryogenic temperatures. *Acta Materialia*, **2012**, 60, 4218-4228	8.4	53
449	Condition monitoring of naturally damaged slow speed slewing bearing based on ensemble empirical mode decomposition. *Journal of Mechanical Science and Technology*, **2013**, 27, 2253-2262	1.6	52
448	Ultrafine grained AA1050/AA6061 composite produced by accumulative roll bonding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 559, 345-351	5.3	51
447	Atomistic simulation of tensile deformation behavior of Σ5 tilt grain boundaries in copper bicrystal. *Scientific Reports*, **2014**, 4, 5919	4.9	49
446	A review on atomistic simulation of grain boundary behaviors in face-centered cubic metals. *Computational Materials Science*, **2016**, 118, 180-191	3.2	49
445	Effects of normal load and velocity on the dry sliding tribological behaviour of CoCrFeNiMo0.2 high entropy alloy. *Tribology International*, **2020**, 144, 106116	4.9	49
444	An overview of inorganic polymer as potential lubricant additive for high temperature tribology. *Tribology International*, **2016**, 102, 620-635	4.9	49
443	A 3D dynamic model to investigate wheel–rail contact under high and low adhesion. *International Journal of Mechanical Sciences*, **2014**, 85, 63-75	5.5	48
442	Annealing effect on microstructure and mechanical properties of Al/Ti/Al laminate sheets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 660, 195-204	5.3	47
441	Mechanical properties and microstructure of a Ti-6Al-4V alloy subjected to cold rolling, asymmetric rolling and asymmetric cryorolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 710, 10-16	5.3	45

440	Shear texture gradient in AA6061 aluminum alloy processed by accumulative roll bonding with high roll roughness. *Journal of Alloys and Compounds*, **2014**, 594, 12-22	5.7	45
439	Oxide scales growth of low-carbon steel at high temperatures. *Journal of Materials Processing Technology*, **2004**, 155-156, 1300-1306	5.3	45
438	Analysis of cold rolling of ultra thin strip. *Journal of Materials Processing Technology*, **2009**, 209, 4584-4589	5.3	44
437	Identification of sixteen force coefficients of two journal bearings from impulse responses. *Wear*, **1997**, 212, 206-212	3.5	44
436	Mechanical properties of Al–Mg–Si alloy sheets produced using asymmetric cryorolling and ageing treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 568, 212-218	5.3	43
435	A 3-D finite element method analysis of cold rolling of thin strip with friction variation. *Tribology International*, **2004**, 37, 185-191	4.9	43
434	Toward a heuristic optimum design of rolling schedules for tandem cold rolling mills. *Engineering Applications of Artificial Intelligence*, **2000**, 13, 397-406	7.2	43
433	Deformation mechanisms in nanotwinned copper by molecular dynamics simulation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 687, 343-351	5.3	42
432	Application of the largest Lyapunov exponent algorithm for feature extraction in low speed slew bearing condition monitoring. *Mechanical Systems and Signal Processing*, **2015**, 50-51, 116-138	7.8	42
431	Comparison of the scuffing behaviour and wear resistance of candidate engineered coatings for automotive piston rings. *Tribology International*, **2017**, 106, 10-22	4.9	42
430	Special Rolling Techniques for Improvement of Mechanical Properties of Ultrafine-Grained Metal Sheets: a Review . *Advanced Engineering Materials*, **2016**, 18, 754-769	3.5	42
429	A molecular dynamics simulation of boundary lubrication: The effect of n-alkanes chain length and normal load. *Wear*, **2013**, 301, 62-69	3.5	41
428	In-situ investigation of oxidation behaviour in high-speed steel roll material under dry and humid atmospheres. *Corrosion Science*, **2010**, 52, 2707-2715	6.8	40
427	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	5.3	40
426	The negative Poisson's ratio and strengthening mechanism of nanolayered graphene/Cu composites. *Carbon*, **2019**, 143, 125-137	10.4	40
425	Enhanced mechanical properties of ARB-processed aluminum alloy 6061 sheets by subsequent asymmetric cryorolling and ageing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 674, 256-261	5.3	40
424	Adsorption of Normal-Alkanes on Fe(110), FeO(110), and Fe2O3(0001): Influence of Iron Oxide Surfaces. *Journal of Physical Chemistry C*, **2015**, 119, 12999-13010	3.8	39
423	Fabrication of Nanostructured Aluminum Sheets Using Four-Layer Accumulative Roll Bonding. *Materials and Manufacturing Processes*, **2014**, 29, 448-453	4.1	39

422	A combined experimental-numerical approach for determining mechanical properties of aluminum subjects to nanoindentation. *Scientific Reports*, **2015**, 5, 15072	4.9	38
421	Brittle versus ductile behaviour of nanotwinned copper: A molecular dynamics study. *Acta Materialia*, **2015**, 89, 1-13	8.4	38
420	High temperature oxide scale characteristics of low carbon steel in hot rolling. *Journal of Materials Processing Technology*, **2004**, 155-156, 1307-1312	5.3	38
419	Molecular dynamics simulation of effect of indenter shape on nanoscratch of Ni. *Wear*, **2009**, 267, 1998-2002	3.5	37
418	A study on crack healing in 1045 steel. *Journal of Materials Processing Technology*, **2006**, 177, 233-237	5.3	37
417	A deformation mechanism of hard metal surrounded by soft metal during roll forming. *Scientific Reports*, **2014**, 4, 5017	4.9	36
416	The shear response of copper bicrystals with Σ11 symmetric and asymmetric tilt grain boundaries by molecular dynamics simulation. *Nanoscale*, **2015**, 7, 7224-33	7.7	36
415	Friction measurement in cold rolling. *Journal of Materials Processing Technology*, **2001**, 111, 142-145	5.3	36
414	Surface characteristics of oxide scale in hot strip rolling. *Journal of Materials Processing Technology*, **2003**, 140, 76-83	5.3	35
413	Circular domain features based condition monitoring for low speed slewing bearing. *Mechanical Systems and Signal Processing*, **2014**, 45, 114-138	7.8	34
412	Stacking fault tetrahedron induced plasticity in copper single crystal. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 680, 27-38	5.3	34
411	Effects of grain boundary on wear of graphene at the nanoscale: A molecular dynamics study. *Carbon*, **2019**, 143, 578-586	10.4	34
410	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	3.5	33
409	Evolution of microstructure, temperature and stress in a high speed steel work roll during hot rolling: Experiment and modelling. *Journal of Materials Processing Technology*, **2017**, 240, 200-208	5.3	33
408	Elastic–plastic finite element method simulation of thin strip with tension in cold rolling. *Journal of Materials Processing Technology*, **2002**, 130-131, 511-515	5.3	33
407	Mixed-Film Lubrication Theory and Tension Effects on Metal Rolling Processes. *Journal of Tribology*, **1999**, 121, 908-915	1.8	33
406	The formation and destruction of stacking fault tetrahedron in fcc metals: A molecular dynamics study. *Scripta Materialia*, **2017**, 136, 78-82	5.6	32
405	Fabrication of ultra-thin nanostructured bimetallic foils by Accumulative Roll Bonding and Asymmetric Rolling. *Scientific Reports*, **2013**, 3, 2373	4.9	32

404	Modelling of the effect of friction on cold strip rolling. *Journal of Materials Processing Technology*, **2008**, 201, 85-90	5.3	32
403	Simulation of rolling behaviour of cubic oriented al single crystal with crystal plasticity FEM. *Journal of Materials Processing Technology*, **2008**, 201, 79-84	5.3	32
402	The Effect of Perturbation Amplitudes on Eight Force Coefficients of Journal Bearings. *Tribology Transactions*, **1996**, 39, 469-475	1.8	32
401	Identification of sixteen dynamic coefficients of two journal bearings from experimental unbalance responses. *Wear*, **1994**, 177, 63-69	3.5	32
400	Dynamic interaction between grain boundary and stacking fault tetrahedron. *Scripta Materialia*, **2018**, 144, 78-83	5.6	31
399	A molecular dynamics simulation of 3D rough lubricated contact. *Tribology International*, **2013**, 67, 217-221	4.9	31
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379	Measurements of velocity distributions in the deformation zone in cold rolling by a scanning LDV. *Optics and Lasers in Engineering*, **2001**, 35, 41-49	4.6	26
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364	The effect of oxide scale of stainless steels on friction and surface roughness in hot rolling. *Wear*, **2011**, 271, 2417-2425	3.5	23
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358	A thermal analysis of strip-rolling in mixed-film lubrication with O/W emulsions. *Tribology International*, **2006**, 39, 1591-1600	4.9	22
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347	Misalignment Effect on the Static and Dynamic Characteristics of Hydrodynamic Journal Bearings. *Journal of Tribology*, **1995**, 117, 717-723	1.8	20
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342	Molecular dynamics study on the atomic mechanisms of coupling motion of [0 0 1] symmetric tilt grain boundaries in copper bicrystal. *Materials Research Express*, **2014**, 1, 015019	1.7	19
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330	Investigation of different inorganic chemical compounds as hot metal forming lubricant by pin-on-disc and hot rolling. *Tribology International*, **2018**, 125, 110-120	4.9	18
329	Progress in Indentation Study of Materials via Both Experimental and Numerical Methods. *Crystals*, **2017**, 7, 258	2.3	18
328	Roughness and Lubricant Effect on 3D Atomic Asperity Contact. *Tribology Letters*, **2014**, 53, 215-223	2.8	18
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