

# Hyoung Seop Kim

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3906526/hyoung-seop-kim-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

740  
papers

16,195  
citations

60  
h-index

89  
g-index

769  
ext. papers

19,982  
ext. citations

4.2  
avg, IF

7.42  
L-index

#	Paper	IF	Citations
740	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts.. <i>Small</i> , <b>2022</b> , e2105611	11	6
739	Evolution of nanosized Cu-rich clusters in a Fe <sub>5</sub> Cu <sub>1</sub> 5Ni alloy produced by laser powder bed fusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 832, 142462	5.3	0
738	Enhancement of tensile strength in AA 6061-T6 plates joined by gas tungsten arc welding using high entropy alloy filler sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 832, 142481	5.3	0
737	Developing harmonic structure in CoCrFeMnNi high entropy alloy to enhance mechanical properties via powder metallurgy approach. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 1688-1695 <sup>2</sup>	5.5	1
736	On the development of a novel multi-phase high-entropy alloy with transformation-induced plasticity effect. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 905, 164014	5.7	2
735	Mechanical properties and microstructural evolution of high-pressure torsion-processed Al7075 alloy at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 835, 142692	5.3	0
734	Determination of damage model parameters using nano- and bulk-scale digital image correlation and the finite element method. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 392-403	5.5	0
733	Novel deep learning approach for practical applications of indentation. <i>Materials Today Advances</i> , <b>2022</b> , 13, 100207	7.4	2
732	Fabrication of multi-gradient heterostructured CoCrFeMnNi high-entropy alloy using laser metal deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 836, 142718	5.3	1
731	Double-humped strain hardening in a metastable ferrous medium-entropy alloy by cryogenic pre-straining and subsequent heat treatment. <i>Scripta Materialia</i> , <b>2022</b> , 211, 114511	5.6	1
730	Origin of superior low-cycle fatigue resistance of an interstitial metastable high-entropy alloy. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 115, 115-128	9.1	2
729	Processing and Microstructure of Ti-Cu Binary Alloys: A Comprehensive Review. <i>Progress in Materials Science</i> , <b>2022</b> , 100933	42.2	1
728	Solid solution induced back-stress in multi-principal element alloys: Experiment and modeling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 835, 142621	5.3	2
727	Metalloid substitution elevates simultaneously the strength and ductility of face-centered-cubic high-entropy alloys. <i>Acta Materialia</i> , <b>2022</b> , 225, 117571	8.4	7
726	Effects of deformation-induced martensitic transformation on cryogenic fracture toughness for metastable Si <sub>8</sub> V <sub>2</sub> Fe <sub>45</sub> Cr <sub>10</sub> Mn <sub>5</sub> Co <sub>30</sub> high-entropy alloy. <i>Acta Materialia</i> , <b>2022</b> , 225, 117568	8.4	4
725	Toward excellent tensile properties of nitrogen-doped CoCrFeMnNi high-entropy alloy at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 897, 163217	5.7	6
724	Evolution of microstructure and mechanical properties of [Cu <sub>10</sub> Ni] <sub>5</sub> Si <sub>3</sub> N <sub>4</sub> nanocomposites developed using mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163319	5.7	0

723	Architected heterogeneous alloys with selective laser melting. <i>Scripta Materialia</i> , <b>2022</b> , 208, 114332	5.6	4
722	Dissimilar laser welding of a CoCrFeMnNi high entropy alloy to 316 stainless steel. <i>Scripta Materialia</i> , <b>2022</b> , 206, 114219	5.6	46
721	Deformation-induced grain boundary segregation mediated high-strain rate superplasticity in medium entropy alloy. <i>Scripta Materialia</i> , <b>2022</b> , 207, 114239	5.6	8
720	Air-Permeable Waterproofing Electrocardiogram Patch to Monitor Full-Day Activities for Multiple Days.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102703	10.1	1
719	Constitutive modeling and finite element analysis of metastable medium entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 840, 142915	5.3	0
718	Strengthening the mechanical properties and wear resistance of CoCrFeMnNi high entropy alloy fabricated by powder metallurgy. <i>Advanced Powder Technology</i> , <b>2022</b> , 33, 103519	4.6	3
717	Upgrading of superior strength-ductility trade-off of CoCrFeNiMn high-entropy alloy by microstructural engineering. <i>Materialia</i> , <b>2022</b> , 22, 101394	3.2	0
716	Gradient-structured high-entropy alloy with improved combination of strength and hydrogen embrittlement resistance. <i>Corrosion Science</i> , <b>2022</b> , 200, 110253	6.8	2
715	Free volume formation and the high strength of pure Mg after room temperature core-sheath ECAP passes. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 147-158	5.5	0
714	Superlative room temperature and cryogenic tensile properties of nanostructured CoCrFeNi medium-entropy alloy fabricated by powder high-pressure torsion. <i>Scripta Materialia</i> , <b>2022</b> , 213, 114631	5.6	0
713	Role of cellular structure on deformation twinning and hetero-deformation induced strengthening of laser powder-bed fusion processed CuSn alloy. <i>Additive Manufacturing</i> , <b>2022</b> , 54, 102744	6.1	3
712	Effects of processing parameters and heat treatment on the microstructure and magnetic properties of the in-situ synthesized Fe-Ni permalloy produced using direct energy deposition. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 907, 164415	5.7	2
711	Heterostructured alloys with enhanced strength-ductility synergy through laser-cladding. <i>Scripta Materialia</i> , <b>2022</b> , 215, 114732	5.6	0
710	A precipitation-hardened AlSi10Mg alloy fabricated using selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 143164	5.3	2
709	Asymmetry evolutions in microstructure and strain hardening behavior between tension and compression for AZ31 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 143168	5.3	1
708	Improving the ductility in laser welded joints of CoCrFeMnNi high entropy alloy to 316 stainless steel. <i>Materials and Design</i> , <b>2022</b> , 110717	8.1	10
707	The subsurface deformed region and superficial protective tribo-oxide layer during wear in a non-equiatomic CoCrFeNiV high entropy alloy. <i>Materials and Design</i> , <b>2022</b> , 218, 110685	8.1	1
706	Microstructure and defect effects on strength and hydrogen embrittlement of high-entropy alloy CrMnFeCoNi processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 844, 143179	5.3	0

705	Modeling of deformation behavior of copper under equal channel angular pressing. <i>International Journal of Materials Research</i> , <b>2022</b> , 94, 754-760	0.5	0
704	A facile strengthening method by co-doping boron and nitrogen in CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 143307	5.3	0
703	Interface characteristics and mechanical behavior of additively manufactured multi-material of stainless steel and Inconel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 847, 143318	5.3	2
702	Nano-scale heterogeneity-driven metastability engineering in ferrous medium-entropy alloy induced by additive manufacturing. <i>Acta Materialia</i> , <b>2021</b> , 221, 117426	8.4	14
701	Metastability engineering of partially recrystallized C-doped non-equiatomic CoCrFeNiMo medium-entropy alloy. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 141901	3.4	3
700	An Effective Strengthening Strategy of Nano Carbide Precipitation and Cellular Microstructure Refinement in a Superalloy Fabricated by Selective Laser Melting Process. <i>Metals</i> , <b>2021</b> , 11, 1691	2.3	0
699	Corrosion-resistant Cu-Fe-based immiscible medium-entropy alloy with tri-layer passivation. <i>Corrosion Science</i> , <b>2021</b> , 193, 109888	6.8	0
698	A perspective on precipitation-hardening high-entropy alloys fabricated by additive manufacturing. <i>Materials and Design</i> , <b>2021</b> , 211, 110161	8.1	12
697	Hierarchical heterostructured FeCr(MgMg2Ni) composite with 3D interconnected and lamellar structures synthesized by liquid metal dealloying. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 4573-4579	5.5	0
696	Tailoring Extra-Strength of a TWIP Steel by Combination of Multi-Pass Equal-Channel Angular Pressing and Warm Rolling. <i>Metals</i> , <b>2021</b> , 11, 518	2.3	5
695	Development of TiNbTaZrMo bio-high entropy alloy (BioHEA) super-solid solution by selective laser melting, and its improved mechanical property and biocompatibility. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113658	5.6	37
694	Evidence of FCC to HCP and BCC-martensitic transformations in a CoCrFeNiMn high-entropy alloy by severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 807, 140875	5.3	9
693	Effect of grain size on the low-cycle fatigue behavior of carbon-containing high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 810, 140985	5.3	7
692	Ultra-strong and strain-hardenable ultrafine-grained medium-entropy alloy via enhanced grain-boundary strengthening. <i>Materials Research Letters</i> , <b>2021</b> , 9, 315-321	7.4	8
691	In-situ carbide-reinforced CoCrFeMnNi high-entropy alloy matrix nanocomposites manufactured by selective laser melting: Carbon content effects on microstructure, mechanical properties, and deformation mechanism. <i>Composites Part B: Engineering</i> , <b>2021</b> , 210, 108638	10	16
690	Mechanical property enhancement in gradient structured aluminum alloy by ultrasonic nanocrystalline surface modification. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 812, 141101	5.3	5
689	Microstructural characterization and enhanced hardness of nanostructured Ni3TiNiTi (B2) intermetallic alloy produced by mechanical alloying and fast microwave-assisted sintering process. <i>Intermetallics</i> , <b>2021</b> , 131, 107119	3.5	4
688	Exploration of optimal microstructure and mechanical properties in continuous microstructure space using a variational autoencoder. <i>Materials and Design</i> , <b>2021</b> , 202, 109544	8.1	9

687	Outstanding mechanical properties of ultrafine-grained Al7075 alloys by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 810, 141020	5.3	6
686	Architected multi-metal CoCrFeMnNi-Inconel 718 lamellar composite by high-pressure torsion. <i>Scripta Materialia</i> , <b>2021</b> , 195, 113722	5.6	12
685	Stretch-flangeability of CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 814, 141241	5.3	2
684	Twinning Engineering of a CoCrFeMnNi High-Entropy Alloy. <i>Scripta Materialia</i> , <b>2021</b> , 197, 113808	5.6	15
683	Worn surface and subsurface layer structure formation behavior on wear mechanism of CoCrFeMnNi high entropy alloy in different sliding conditions. <i>Applied Surface Science</i> , <b>2021</b> , 549, 149202	6.7	14
682	Printed Stretchable Single-Nanofiber Interconnections for Individually-Addressable Highly-Integrated Transparent Stretchable Field Effect Transistor Array. <i>Nano Letters</i> , <b>2021</b> , 21, 5819-5827	11.5	4
681	Correlation between microstructural heterogeneity and mechanical properties of WC-Co composite additively manufactured by selective laser melting. <i>Materials Letters</i> , <b>2021</b> , 293, 129683	3.3	2
680	Super-resolving material microstructure image via deep learning for microstructure characterization and mechanical behavior analysis. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	3
679	Temperature- and strain-dependent thermally-activated deformation mechanism of a ferrous medium-entropy alloy. <i>Intermetallics</i> , <b>2021</b> , 134, 107202	3.5	5
678	Effect of the Difference in Strength of Hard and Soft Components on the Synergetic Strengthening of Layered Materials. <i>Metals and Materials International</i> , <b>2021</b> , 27, 376-383	2.4	3
677	Finite Element Analysis of Severe Plastic Deformation by Rectangular Vortex Extrusion. <i>Metals and Materials International</i> , <b>2021</b> , 27, 676-682	2.4	3
676	Continuous Severe Plastic Deformation of Low-Carbon Steel: Physical Mechanical Properties and Multiscale Structure Analysis. <i>Steel Research International</i> , <b>2021</b> , 92, 2000482	1.6	0
675	Enhanced thermoelectric performance of Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> composites through potential barrier scattering at heterogeneous interfaces. <i>Materials Research Bulletin</i> , <b>2021</b> , 133, 111023	5.1	7
674	Constitutive Modeling with Critical Twinning Stress in CoCrFeMnNi High Entropy Alloy at Cryogenic Temperature and Room Temperature. <i>Metals and Materials International</i> , <b>2021</b> , 27, 2300-2309	2.4	10
673	Hetero-deformation-induced strengthening of multi-phase CuFeMn medium entropy alloys by dynamic heterostructuring. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 799, 140275	5.3	1
672	A powder-metallurgy-based fabrication route towards achieving high tensile strength with ultra-high ductility in high-entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 190, 69-74	5.6	20
671	Isotropic and kinematic hardening of a high entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 191, 107-110	5.6	13
670	Heterostructured materials: superior properties from hetero-zone interaction. <i>Materials Research Letters</i> , <b>2021</b> , 9, 1-31	7.4	160

669	Effects of grain size on body-centered-cubic martensitic transformation in metastable Fe46Co30Cr10Mn5Si7V2 high-entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113620	5.6	9
668	The high temperature mechanical properties and the correlated microstructure/ texture evolutions of a TWIP high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 802, 140600	5.3	5
667	Enhanced cryogenic tensile properties with multi-stage strain hardening through partial recrystallization in a ferrous medium-entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113653	5.6	10
666	Unusual strain-induced martensite and absence of conventional grain refinement in twinning induced plasticity high-entropy alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 803, 140570	5.3	9
665	Body-centered-cubic martensite and the role on room-temperature tensile properties in Si-added SiVCrMnFeCo high-entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 76, 222-230	9.1	7
664	Anomalous compliance of interpenetrating-phase composite of Ti and Mg synthesized by liquid metal dealloying. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113660	5.6	8
663	Deep learning-based phase prediction of high-entropy alloys: Optimization, generation, and explanation. <i>Materials and Design</i> , <b>2021</b> , 197, 109260	8.1	32
662	Superplastic Behavior in High-Pressure Torsion-Processed Mo7.5Fe55Co18Cr12.5Ni7 Medium-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 1-7	2.3	2
661	Microstructural and Mechanical Properties of a Material Processed by Streamline Proposed Vortex Extrusion Die. <i>Metals and Materials International</i> , <b>2021</b> , 27, 522-529	2.4	1
660	Heterogeneous Aspects of Additive Manufactured Metallic Parts: A Review. <i>Metals and Materials International</i> , <b>2021</b> , 27, 1-39	2.4	38
659	Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. <i>Metals</i> , <b>2021</b> , 11, 238	2.3	5
658	Effects of temperature and loading rate on phase stability and deformation mechanism in metastable V10Cr10Co30Fe <sub>x</sub> Ni50-x high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 804, 140766	5.3	1
657	Welding Thermal Cycle Impact on the Microstructure and Mechanical Properties of ThermoMechanical Control Process Steels. <i>Steel Research International</i> , <b>2021</b> , 92, 2000645	1.6	3
656	Effects of Cell Network Structure on the Strength of Additively Manufactured Stainless Steels. <i>Metals and Materials International</i> , <b>2021</b> , 27, 2614-2622	2.4	5
655	Excellent strength-ductility combination of multi-layered sheets composed of high-strength V10Cr10Fe50Co30 high entropy alloy and 304 austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 823, 141727	5.3	0
654	Synergetic strengthening from grain refinement and nano-scale precipitates in non-equiatomic CoCrFeNiMo medium-entropy alloy. <i>Intermetallics</i> , <b>2021</b> , 135, 107212	3.5	8
653	Strength-ductility enhancement in multi-layered sheet with high-entropy alloy and high-Mn twinning-induced plasticity steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 822, 141670	5.3	1
652	Twinning engineering of high-entropy alloys: An exercise in process optimization and modeling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 822, 141681	5.3	5



651	Unraveling the discontinuous plastic flow of a Co-Cr-Fe-Ni-Mo multiprincipal-element alloy at deep cryogenic temperatures. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4
650	Effect of heat treatment on the mechanical properties and microstructure of HSLA steels processed by various technologies. <i>Materials Today Communications</i> , <b>2021</b> , 28, 102598	2.5	3
649	Superior strain-hardening by deformation-induced nano-HCP martensite in FeMnSiTi high-manganese steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 824, 141864	5.3	2
648	Simultaneous effects of deformation-induced plasticity and precipitation hardening in metastable non-equiatomic FeNiCoMnTiSi ferrous medium-entropy alloy at room and liquid nitrogen temperatures. <i>Scripta Materialia</i> , <b>2021</b> , 202, 114013	5.6	8
647	Metastable Ferrite and twinning-induced plasticity on the strain hardening behavior of directed energy deposition-processed 304L austenitic stainless steel. <i>Additive Manufacturing</i> , <b>2021</b> , 47, 102363	6.1	1
646	1.7 GPa tensile strength in ferrous medium entropy alloy via martensite and precipitation. <i>Materials Letters</i> , <b>2021</b> , 130958	3.3	1
645	Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. <i>Materials Today</i> , <b>2021</b> , 50, 55-55	21.8	10
644	Superior antifouling properties of a CoCrFeMnNi high-entropy alloy. <i>Materials Letters</i> , <b>2021</b> , 300, 130130	3.3	7
643	Gradient-structured ferrous medium-entropy alloys with enhanced strength-ductility synergy by ultrasonic nanocrystalline surface modification. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 826, 141966	5.3	3
642	Microstructural evolution and mechanical properties of nanocrystalline FeMnAlTi steel processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 827, 142073	5.3	1
641	Superior phase transformation-assisted mechanical properties of a metastable medium-entropy ferrous alloy with heterogeneous microstructure. <i>Materials Letters</i> , <b>2021</b> , 302, 130391	3.3	3
640	Novel multi-metal stainless steel (316L)/high-modulus steel (Fe-TiB <sub>2</sub> ) composite with enhanced specific modulus and strength using high-pressure torsion. <i>Materials Letters</i> , <b>2021</b> , 303, 130510	3.3	1
639	Cold spray deposition characteristic and bonding of CrMnCoFeNi high entropy alloy. <i>Surface and Coatings Technology</i> , <b>2021</b> , 425, 127748	4.4	11
638	Analysis of texture and grain shape effects on the yield anisotropy of Zr-2.5wt%Nb pressure tube alloy using crystal plasticity finite element method. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 555, 153112	3.3	0
637	2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114157	5.6	4
636	Effect of heat treatment on microstructural heterogeneity and mechanical properties of 1%C-CoCrFeMnNi alloy fabricated by selective laser melting. <i>Additive Manufacturing</i> , <b>2021</b> , 47, 102283	6.1	4
635	Delayed deformation-induced martensite transformation and enhanced cryogenic tensile properties in laser additive manufactured 316L austenitic stainless steel. <i>Additive Manufacturing</i> , <b>2021</b> , 47, 102314	6.1	1
634	Beyond strength-ductility trade-off: 3D interconnected heterostructured composites by liquid metal dealloying. <i>Composites Part B: Engineering</i> , <b>2021</b> , 225, 109266	10	3

633	TiC-reinforced CoCrFeMnNi composite processed by cold-consolidation and subsequent annealing. <i>Materials Letters</i> , <b>2021</b> , 303, 130503	3.3	4
632	Quantification of Mechanical Twins in Metallographic Images of Twinning-Induced Plasticity Steels Using a New Image Processing Method. <i>Metals and Materials International</i> , <b>2021</b> , 27, 618-628	2.4	0
631	Nanoporous High-Entropy Alloy by Liquid Metal Dealloying. <i>Metals</i> , <b>2020</b> , 10, 1396	2.3	14
630	Forecast of Adiabatic Shear Band Formation in Two Commercial Ultra-high-Strength Armor Steels by Split Hopkinson Pressure Bar. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 3384-3391	2.3	6
629	Superior-tensile property of CoCrFeMnNi alloys achieved using friction-stir welding for cryogenic applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 788, 139547	5.3	12
628	Microstructure design using machine learning generated low dimensional and continuous design space. <i>Materialia</i> , <b>2020</b> , 11, 100690	3.2	6
627	Towards ferrous medium-entropy alloys with low-cost and high-performance. <i>Scripta Materialia</i> , <b>2020</b> , 186, 169-173	5.6	28
626	Ultrahigh high-strain-rate superplasticity in a nanostructured high-entropy alloy. <i>Nature Communications</i> , <b>2020</b> , 11, 2736	17.4	48
625	Understanding of adiabatic shear band evolution during high-strain-rate deformation in high-strength armor steel. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 155540	5.7	16
624	Short-range order strengthening in boron-doped high-entropy alloys for cryogenic applications. <i>Acta Materialia</i> , <b>2020</b> , 194, 366-377	8.4	43
623	Correlation with the composition of the different parts of p-type Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> sintered bulks and their thermoelectric characteristics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 156114	5.7	
622	Effect of Processing Route on Microstructure and Mechanical Properties in Single-Roll Angular-Rolling. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
621	Low-cycle fatigue properties of CoCrFeMnNi high-entropy alloy compared with its conventional counterparts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 792, 139661	5.3	18
620	Control of magnesium in vitro degradation based on ultrafine-grained surface gradient structure using ultrasonic nanocrystalline surface modification. <i>Materialia</i> , <b>2020</b> , 12, 100821	3.2	5
619	High-entropy alloys with heterogeneous microstructure: Processing and mechanical properties. <i>Progress in Materials Science</i> , <b>2020</b> , 100709	42.2	78
618	Analysis of damage-tolerance of TRIP-assisted V10Cr10Fe45Co30Ni5 high-entropy alloy at room and cryogenic temperatures. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 844, 156090	5.7	20
617	On the phase transformation and dynamic stress-strain partitioning of ferrous medium-entropy alloy using experimentation and finite element method. <i>Materialia</i> , <b>2020</b> , 9, 100619	3.2	11
616	Breaking the limit of Young's modulus in low-cost TiNbZr alloy for biomedical implant applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 828, 154401	5.7	22



615	The role of ultrasonic nanocrystalline surface modification at elevated temperature on the hydrogen charging behavior of high-Mn steels. <i>Materialia</i> , <b>2020</b> , 9, 100626	3.2	2
614	Gas tungsten arc welding of as-rolled CrMnFeCoNi high entropy alloy. <i>Materials and Design</i> , <b>2020</b> , 189, 108505	8.1	78
613	Effect of Initial Grain Size on Deformation Mechanism during High-Pressure Torsion in V10Cr15Mn5Fe35Co10Ni25 High-Entropy Alloy. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2070002	3.5	
612	A new strategy for designing immiscible medium-entropy alloys with excellent tensile properties. <i>Acta Materialia</i> , <b>2020</b> , 193, 71-82	8.4	38
611	Synergistic role of carbon nanotube and SiCn reinforcements on mechanical properties and corrosion behavior of Cu-based nanocomposite developed by flake powder metallurgy and spark plasma sintering process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 786, 139395	5.3	13
610	Fabrication of FeCuNi alloy by mechanical alloying followed by consolidation using high-pressure torsion. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2020</b> , 27, 1-7	0.1	
609	Development of the PC-GMAW welding technology for TMCP steel in accordance with welding thermal cycle, welding technique, structure, and properties of welded joints. <i>Reports in Mechanical Engineering</i> , <b>2020</b> , 1, 26-33	9.3	9
608	Nanoporous Materials: Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design (Adv. Mater. 6/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070044	24	
607	Synergetic strengthening of additively manufactured (CoCrFeMnNi)99C1 high-entropy alloy by heterogeneous anisotropic microstructure. <i>Additive Manufacturing</i> , <b>2020</b> , 35, 101333	6.1	16
606	Multi-layered gradient structure manufactured by single-roll angular-rolling and ultrasonic nanocrystalline surface modification. <i>Scripta Materialia</i> , <b>2020</b> , 186, 52-56	5.6	7
605	Hetero-deformation-induced strengthening by twin-mediated martensitic transformation in an immiscible medium-entropy alloy. <i>Scripta Materialia</i> , <b>2020</b> , 186, 24-28	5.6	15
604	Effects of annealing temperature on microstructures and tensile properties of a single FCC phase CoCuMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 812, 152111	5.7	20
603	Fine-tuning of mechanical properties in V10Cr15Mn5Fe35Co10Ni25 high-entropy alloy through high-pressure torsion and annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 771, 138604	5.3	22
602	High Coercivity in MnAl Disc Prepared by Severe Plastic Deformation. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900356	1.3	4
601	Enhanced tensile properties and electrical conductivity of Cu-CNT nanocomposites processed via the combination of flake powder metallurgy and high pressure torsion methods. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138888	5.3	23
600	Effects of transformation-induced plasticity (TRIP) on tensile property improvement of Fe45Co30Cr10V10Ni5-xMnx high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 772, 138809	5.3	18
599	Threshold Voltage Drift in Te-Based Ovonic Threshold Switch Devices Under Various Operation Conditions. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 191-194	4.4	10
598	Weldability of cast CoCrFeMnNi high-entropy alloys using various filler metals for cryogenic applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 153278	5.7	15

597	Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906160	24	36
596	Nano-scale solute heterogeneities in the ultrastrong selectively laser melted carbon-doped CoCrFeMnNi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138726	5.3	28
595	INDENTATION SIZE EFFECT IN HIGH PRESSURE TORSION PROCESSED HIGH ENTROPY ALLOY. <i>Acta Polytechnica CTU Proceedings</i> , <b>2020</b> , 27, 141-144	0.4	2
594	A thermodynamic description of the AlCuFeMn system for an immiscible medium-entropy alloy design. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2020</b> , 71, 101995	1.9	0
593	Biocompatible Magnesium Implant Double-Coated with Dexamethasone-Loaded Black Phosphorus and Poly(lactide-glycolide).. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8879-8889	4.1	1
592	Analysis of bending behavior of TiN particle-reinforced martensitic steel using micro-digital image correlation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 794, 139965	5.3	1
591	On the mechanistic understanding of annealing-induced strength enhancement of ultrafine-grained high-Mn steel. <i>Materialia</i> , <b>2020</b> , 13, 100837	3.2	4
590	Precipitation-driven metastability engineering of carbon-doped CoCrFeNiMo medium-entropy alloys at cryogenic temperature. <i>Scripta Materialia</i> , <b>2020</b> , 188, 140-145	5.6	36
589	Novel precipitation and enhanced tensile properties in selective laser melted Cu-Sn alloy. <i>Materialia</i> , <b>2020</b> , 13, 100861	3.2	8
588	Effects of Si on the Microstructure and Work Hardening Behavior of Fe-17Mn-1.1C-xSi High Manganese Steels. <i>Metals and Materials International</i> , <b>2020</b> , 27, 3891	2.4	4
587	Design of a Janus-Faced Electrode for Highly Stretchable ZincSilver Rechargeable Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004137	15.6	8
586	Development of an Advanced Ultrahigh Strength TRIP Steel and Evaluation of Its Unique Strain Hardening Behavior. <i>Metals and Materials International</i> , <b>2020</b> , 26, 168-178	2.4	20
585	Physics-Based Constitutive Model of Porous Materials for Die/Isostatic Compaction of Metallic Powders. <i>Metals and Materials International</i> , <b>2020</b> , 26, 221-229	2.4	4
584	Effect of Initial Grain Size on Friction Stir Weldability for Rolled and Cast CoCrFeMnNi High-Entropy Alloys. <i>Metals and Materials International</i> , <b>2020</b> , 26, 641-649	2.4	15
583	Superior tensile properties of 1%C-CoCrFeMnNi high-entropy alloy additively manufactured by selective laser melting. <i>Materials Research Letters</i> , <b>2020</b> , 8, 1-7	7.4	76
582	Development and Microstructural Characterization of a New Wrought High Entropy Superalloy. <i>Metals and Materials International</i> , <b>2020</b> , 26, 591-602	2.4	5
581	Effect of Initial Grain Size on Deformation Mechanism during High-Pressure Torsion in V10Cr15Mn5Fe35Co10Ni25 High-Entropy Alloy. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1900587	3.5	19
580	Laser dissimilar weldability of cast and rolled CoCrFeMnNi high-entropy alloys for cryogenic applications. <i>Science and Technology of Welding and Joining</i> , <b>2020</b> , 25, 127-134	3.7	19

579	Microstructural tailoring in reverse gradient-structured copper sheet using single-roll angular-rolling and subsequent annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 764, 138258	5.3	7
578	Exceptional cryogenic strength-ductility synergy in Al <sub>0.3</sub> CoCrNi medium-entropy alloy through heterogeneous grain structure and nano-scale precipitates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 766, 138372	5.3	23
577	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , <b>2019</b> , 181, 318-330	8.4	67
576	Yield-strength prediction of flattened steel pipes by competing Bauschinger effect and strain hardening during pipe-forming. <i>Scientific Reports</i> , <b>2019</b> , 9, 14002	4.9	3
575	Strain-rate sensitivity of high-entropy alloys and its significance in deformation. <i>Materials Research Letters</i> , <b>2019</b> , 7, 503-509	7.4	23
574	Achieving high strength and high ductility in Al <sub>0.3</sub> CoCrNi medium-entropy alloy through multi-phase hierarchical microstructure. <i>Materialia</i> , <b>2019</b> , 8, 100442	3.2	23
573	Superior cryogenic tensile properties of ultrafine-grained CoCrNi medium-entropy alloy produced by high-pressure torsion and annealing. <i>Scripta Materialia</i> , <b>2019</b> , 163, 152-156	5.6	60
572	Effects of deformation-induced BCC martensitic transformation and twinning on impact toughness and dynamic tensile response in metastable VCrFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 785, 1056-1067	5.7	30
571	Unique microstructure and simultaneous enhancements of strength and ductility in gradient-microstructured Cu sheet produced by single-roll angular-rolling. <i>Acta Materialia</i> , <b>2019</b> , 166, 638-649	8.4	32
570	High-cycle fatigue and tensile deformation behaviors of coarse-grained equiatomic CoCrFeMnNi high entropy alloy and unexpected hardening behavior during cyclic loading. <i>Intermetallics</i> , <b>2019</b> , 111, 106486	3.5	39
569	Diffuse $\gamma/\alpha$ interfaces in the hierarchical dual-phase nanostructure of a Ni-Al-Ti alloy. <i>Materials Characterization</i> , <b>2019</b> , 153, 284-293	3.9	3
568	Grain Size Effect on Mechanical Properties Under Biaxial Stretching in Pure Tantalum. <i>Metals and Materials International</i> , <b>2019</b> , 25, 1448-1456	2.4	4
567	Synergetic strengthening of layered steel sheet investigated using an in situ neutron diffraction tensile test. <i>Scientific Reports</i> , <b>2019</b> , 9, 6829	4.9	9
566	Ultra-high strength and excellent ductility in multi-layer steel sheet of austenitic hadfield and martensitic hot-press-forming steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 759, 320-328	5.3	10
565	Excellent combination of cryogenic-temperature strength and ductility of high-entropy-alloy-cored multi-layered sheet. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 465-470	5.7	12
564	Effects of strain rate on room- and cryogenic-temperature compressive properties in metastable V <sub>10</sub> Cr <sub>10</sub> Fe <sub>45</sub> Co <sub>35</sub> high-entropy alloy. <i>Scientific Reports</i> , <b>2019</b> , 9, 6163	4.9	11
563	Relationships Between Stretch-Flangeability and Microstructure-Mechanical Properties in Ultra-High-Strength Dual-Phase Steels. <i>Metals and Materials International</i> , <b>2019</b> , 25, 1161-1169	2.4	18
562	Micromechanical analysis of orientation dependency on deformation behavior in DP steels by dislocation density-based crystal plasticity simulation. <i>Mechanics of Materials</i> , <b>2019</b> , 134, 132-142	3.3	8

561	Microstructural behavior and mechanical properties of nanocrystalline Ti-22Al-25Nb alloy processed by high-pressure torsion. <i>Materials Characterization</i> , <b>2019</b> , 151, 129-136	3.9	7
560	Mechanical, tribological and electrical properties of Cu-CNT composites fabricated by flake powder metallurgy method. <i>Archives of Civil and Mechanical Engineering</i> , <b>2019</b> , 19, 694-706	3.4	31
559	The enhancement of transformation induced plasticity effect through preferentially oriented substructure development in a high entropy alloy. <i>Intermetallics</i> , <b>2019</b> , 109, 145-156	3.5	9
558	In situ neutron diffraction study of phase stress evolution in a ferrous medium-entropy alloy under low-temperature tensile loading. <i>Scripta Materialia</i> , <b>2019</b> , 165, 60-63	5.6	13
557	Back-Stress Effect on the Mechanical Strength of TWIP-IF Steels Layered Sheet. <i>Metals and Materials International</i> , <b>2019</b> , 25, 912-917	2.4	24
556	Precipitation behaviour and mechanical properties of a new wrought high entropy superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 749, 271-280	5.3	10
555	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. <i>Scripta Materialia</i> , <b>2019</b> , 165, 39-43	5.6	108
554	Effects of (W, Cr) carbide on grain refinement and mechanical properties for CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 222-228	5.7	32
553	Fine tuning of tensile properties in CrCoNi medium entropy alloy through cold rolling and annealing. <i>Intermetallics</i> , <b>2019</b> , 113, 106578	3.5	23
552	Cryogenic-temperature fracture toughness analysis of non-equi-atomic V10Cr10Fe45Co20Ni15 high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 809, 151864	5.7	32
551	Effects of microstructure and internal defects on mechanical anisotropy and asymmetry of selective laser-melted 316L austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 763, 138152	5.3	37
550	Superplasticity of V10Cr15Mn5Fe35Co10Ni25 high-entropy alloy processed using high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 764, 138198	5.3	9
549	Understanding and Avoiding Intergranular Fracture Characteristics of Hadfield/Hot-Press-Forming Multi-Layer Steel Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 4085-4097	2.3	3
548	Ultrastrong duplex high-entropy alloy with 2 GPa cryogenic strength enabled by an accelerated martensitic transformation. <i>Scripta Materialia</i> , <b>2019</b> , 171, 67-72	5.6	40
547	High-Output and Bending-Tolerant Triboelectric Nanogenerator Based on an Interlocked Array of Surface-Functionalized Indium Tin Oxide Nanohelices. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1748-1754	20.1	30
546	Laser weldability of cast and rolled high-entropy alloys for cryogenic applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 742, 224-230	5.3	41
545	FCC to BCC transformation-induced plasticity based on thermodynamic phase stability in novel VCrFeCoNi medium-entropy alloys. <i>Scientific Reports</i> , <b>2019</b> , 9, 2948	4.9	38
544	The Effect of Processing Route on Properties of HfNbTaTiZr High Entropy Alloy. <i>Materials</i> , <b>2019</b> , 12,	3.5	7

543	Nanocrystalline High Entropy Alloys: Processing and Properties <b>2019</b> ,		1
542	Wear and friction behavior of self-lubricating hybrid Cu-(SiC + x CNT) composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 158, 92-101	10	46
541	Plastic Deformation Behavior of 40Fe <sub>25</sub> Ni <sub>15</sub> Cr <sub>10</sub> Co <sub>10</sub> V High-Entropy Alloy for Cryogenic Applications. <i>Metals and Materials International</i> , <b>2019</b> , 25, 277-284	2.4	37
540	Bayesian approach in predicting mechanical properties of materials: Application to dual phase steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 743, 382-390	5.3	17
539	Effect of grain size on the tensile behavior of V10Cr15Mn5Fe35Co10Ni25 high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 744, 610-617	5.3	32
538	Fabrication and mechanical properties of TiC reinforced CoCrFeMnNi high-entropy alloy composite by water atomization and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 389-396	5.7	65
537	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , <b>2019</b> , 7, 82-88	7.4	80
536	Solid state recycling of aluminium AA6061 alloy chips by hot extrusion. <i>Materials Research Express</i> , <b>2019</b> , 6, 036525	1.7	3
535	On the control of structural/compositional ratio of coherent order-disorder interfaces. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 1222-1233	5.7	4
534	Hardness, wear and friction characteristics of nanostructured Cu-SiC nanocomposites fabricated by powder metallurgy route. <i>Materials Today Communications</i> , <b>2019</b> , 18, 25-31	2.5	14
533	Microstructural evolution of liquid metal embrittlement in resistance-spot-welded galvanized TWinning-Induced Plasticity (TWIP) steel sheets. <i>Materials Characterization</i> , <b>2019</b> , 147, 233-241	3.9	31
532	Modelling feasibility constraints for materials design: Application to inverse crystallographic texture problem. <i>Computational Materials Science</i> , <b>2019</b> , 156, 361-367	3.2	3
531	Effects of residual stress on the mechanical properties of copper processed using ultrasonic-nanocrystalline surface modification. <i>Materials Research Letters</i> , <b>2019</b> , 7, 97-102	7.4	36
530	Effect of High-Pressure Torsion on the Thermal and Mechanical Properties of La <sub>62</sub> Cu <sub>12</sub> Ni <sub>12</sub> Al <sub>14</sub> Bulk Metallic Glass. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1800918	3.5	2
529	Effect of multi-pass friction stir processing on the microstructure and hardness of AA1100/Al13Fe4 in situ composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 046558	1.7	2
528	Microstructure, Micro-Hardness, and Corrosion Resistance of Commercial Purity Al Processed by Hollow-Cone High-Pressure Torsion. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1800905	3.5	2
527	Role of BCC phase on tensile behavior of dual-phase Al <sub>0.5</sub> CoCrFeMnNi high-entropy alloy at cryogenic temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 746, 443-447	5.3	26
526	Strength and ductility enhancement in the gradient structured twinning-induced plasticity steel by ultrasonic nanocrystalline surface modification. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 739, 105-108	5.3	19



525	Effect of $\epsilon$ -precipitates on the microstructure and mechanical properties of non-equiatomic CoCrFeNiMo medium-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 75-83	5-7	49
524	A novel approach for producing in situ Al-Al <sub>2</sub> Cu composite via friction stir processing. <i>Materials Research Express</i> , <b>2019</b> , 6, 036528	1-7	2
523	Utilization of brittle $\beta$ phase for strengthening and strain hardening in ductile VCrFeNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 743, 665-674	5-3	32
522	An efficient machine learning approach to establish structure-property linkages. <i>Computational Materials Science</i> , <b>2019</b> , 156, 17-25	3-2	38
521	Additional hardening in harmonic structured materials by strain partitioning and back stress. <i>Materials Research Letters</i> , <b>2018</b> , 6, 261-267	7-4	104
520	Intragranular Dispersion of Carbon Nanotubes Comprehensively Improves Aluminum Alloys. <i>Advanced Science</i> , <b>2018</b> , 5, 1800115	13-6	12
519	Small-Scale System for Evaluation of Stretch-Flangeability with Excellent Reliability. <i>Jom</i> , <b>2018</b> , 70, 912-917	2-17	5
518	High temperature oxidation behavior of Cr-Mn-Fe-Co-Ni high entropy alloy. <i>Intermetallics</i> , <b>2018</b> , 98, 45-53	5-5	77
517	Stretch-flangeability of twinning-induced plasticity steel-cored three-layer steel sheet. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 258, 220-225	5-3	3
516	Boron doped ultrastrong and ductile high-entropy alloys. <i>Acta Materialia</i> , <b>2018</b> , 151, 366-376	8-4	139
515	Suppressed deformation instability in the twinning-induced plasticity steel-cored three-layer steel sheet. <i>Acta Materialia</i> , <b>2018</b> , 147, 304-312	8-4	33
514	Strain rate effects of dynamic compressive deformation on mechanical properties and microstructure of CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 719, 155-163	5-3	84
513	Influence of Friction Stir Processing Parameters on the Microstructure of Aluminum Foams. <i>Transactions of the Indian Institute of Metals</i> , <b>2018</b> , 71, 483-491	1-2	5
512	Effect of target-fixture geometry on shock-wave compacted copper powders. <i>Metals and Materials International</i> , <b>2018</b> , 24, 84-94	2-4	
511	Prediction of hole expansion ratio for various steel sheets based on uniaxial tensile properties. <i>Metals and Materials International</i> , <b>2018</b> , 24, 187-194	2-4	12
510	Impact Toughness of Ultrafine-Grained Commercially Pure Titanium for Medical Application. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700863	3-5	8
509	Mechanical behavior and solid solution strengthening model for face-centered cubic single crystalline and polycrystalline high-entropy alloys. <i>Intermetallics</i> , <b>2018</b> , 98, 89-94	3-5	35
508	Simulation of Pipe-Manufacturing Processes Using Sheet Bending-Flattening. <i>Experimental Mechanics</i> , <b>2018</b> , 58, 909-918	2-6	3



507	Role of brittle sigma phase in cryogenic-temperature-strength improvement of non-equi-atomic Fe-rich VCrMnFeCoNi high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 724, 403-410	5.3	33
506	Wear Behavior of AZ31/Al <sub>2</sub> O <sub>3</sub> Magnesium Matrix Surface Nanocomposite Fabricated via Friction Stir Processing. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 2010-2017	1.6	20
505	Modelling the evolution of recrystallization texture for a non-grain oriented electrical steel. <i>Computational Materials Science</i> , <b>2018</b> , 149, 57-64	3.2	6
504	Deep drawing behavior of twinning-induced plasticity-cored three-layer steel sheet. <i>International Journal of Material Forming</i> , <b>2018</b> , 11, 11-18	2	2
503	Effects of homogenization temperature on cracking during cold-rolling of Al <sub>0.5</sub> CoCrFeMnNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 210, 187-191	4.4	12
502	High-temperature tensile deformation behavior of hot rolled CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 730, 242-248	5.7	44
501	High-Entropy Alloys: Potential Candidates for High-Temperature Applications [An Overview]. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700645	3.5	148
500	Superior Strength and Multiple Strengthening Mechanisms in Nanocrystalline TWIP Steel. <i>Scientific Reports</i> , <b>2018</b> , 8, 11200	4.9	32
499	Fundamentals of Severe Plastic Deformation <b>2018</b> , 19-36		13
498	Severe Plastic Deformation Methods for Sheets <b>2018</b> , 113-129		7
497	Strength enhancement of high entropy alloy HfNbTaTiZr by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 768, 924-937	5.7	30
496	Annealing-induced hardening in high-pressure torsion processed CoCrNi medium entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 338-340	5.3	43
495	Effective Parameters for the Success of Severe Plastic Deformation Methods <b>2018</b> , 187-222		2
494	Shape memory characteristics of a nanocrystalline TiNi alloy processed by HPT followed by post-deformation annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 445-452	5.3	11
493	Severe Plastic Deformation Methods for Tubular Samples <b>2018</b> , 131-164		2
492	An approach for screening single phase high-entropy alloys using an in-house thermodynamic database. <i>Intermetallics</i> , <b>2018</b> , 101, 56-63	3.5	12
491	Severe Plastic Deformation Methods for Bulk Samples <b>2018</b> , 37-112		7
490	Applications of Ultrafine-Grained and Nanograined Metals <b>2018</b> , 275-306		2

489	Microstructure and Mechanical Properties of High-Entropy Alloy CoCrFeMnNi Processed by High-Pressure Torsion at 77 K and 300 K. <i>Scientific Reports</i> , <b>2018</b> , 8, 11074	4.9	30
488	Molybdenum Disulfide Surface Modification of Ultrafine-Grained Titanium for Enhanced Cellular Growth and Antibacterial Effect. <i>Scientific Reports</i> , <b>2018</b> , 8, 9907	4.9	11
487	Microstructural Evolution and Mechanical Properties in Superlight Mg-Li Alloy Processed by High-Pressure Torsion. <i>Materials</i> , <b>2018</b> , 11,	3.5	17
486	Effect of the fabrication method on the wear properties of copper silicon carbide composites. <i>Tribology International</i> , <b>2018</b> , 128, 140-154	4.9	11
485	Microstructural and Finite Element Analysis of Creep Failure in Dissimilar Weldment Between 9Cr and 2.25Cr Heat-Resistant Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 5323-5332	2.3	1
484	Effect of secondary phase particles on the tensile behavior of Mg-Zn-Ca alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 288-294	5.3	24
483	Ultra-high tensile strength nanocrystalline CoCrNi equi-atomic medium entropy alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 394-397	5.3	55
482	Severe Plastic Deformation for Industrial Applications <b>2018</b> , 165-186		3
481	Quantitative study on yield point phenomenon of low carbon steels processed by compact endless casting and rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 408-415	5.3	4
480	Effect of grain size on stretch-flangeability of twinning-induced plasticity steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 295-301	5.3	8
479	Fabrication of NiTi and NiTi-nano Al <sub>2</sub> O <sub>3</sub> composites by powder metallurgy methods: Comparison of hot isostatic pressing and spark plasma sintering techniques. <i>Ceramics International</i> , <b>2018</b> , 44, 15981-15988	5.1	13
478	Defects in High Entropy Alloy HfNbTaTiZr Prepared by High Pressure Torsion. <i>Acta Physica Polonica A</i> , <b>2018</b> , 134, 891-894	0.6	14
477	Effect of Porosity on Mechanical Anisotropy of 316L Austenitic Stainless Steel Additively Manufactured by Selective Laser Melting. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2018</b> , 25, 475-481	6.1	5
476	Compaction behavior of water-atomized CoCrFeMnNi high-entropy alloy powders. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 210, 95-102	4.4	22
475	Mechanical properties and deformation twinning behavior of as-cast CoCrFeMnNi high-entropy alloy at low and high temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 108-113	5.3	64
474	Effect of post weld heat treatment on weldability of high entropy alloy welds. <i>Science and Technology of Welding and Joining</i> , <b>2018</b> , 23, 420-427	3.7	38
473	Fabrication of Mg/Al <sub>12</sub> Mg <sub>17</sub> in-situ surface nanocomposite via friction stir processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 655-662	5.3	14
472	Single-roll angular-rolling: A new continuous severe plastic deformation process for metal sheets. <i>Scripta Materialia</i> , <b>2018</b> , 146, 204-207	5.6	19

471	Effect of Annealing on Microstructure and Tensile Behavior of CoCrNi Medium Entropy Alloy Processed by High-Pressure Torsion. <i>Entropy</i> , <b>2018</b> , 20,	2.8	27
470	Exceptional phase-transformation strengthening of ferrous medium-entropy alloys at cryogenic temperatures. <i>Acta Materialia</i> , <b>2018</b> , 161, 388-399	8.4	100
469	Hygroscopic Auxetic On-Skin Sensors for Easy-to-Handle Repeated Daily Use. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40141-40148	9.5	41
468	Force Sensors: A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception (Adv. Funct. Mater. 42/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870304	15.6	
467	Data to reproduce and modify "An approach for screening single phase high-entropy alloys using an in-house thermodynamic database". <i>Data in Brief</i> , <b>2018</b> , 20, 1337-1339	1.2	5
466	Mechanical Properties of Ultrafine-Grained and Nanostructured Metals <b>2018</b> , 223-257		2
465	Strain hardening and micro-deformation behavior in advanced DP and TRIP steels: EBSD examinations and crystal plasticity simulations. <i>Materials Research Express</i> , <b>2018</b> , 5, 126507	1.7	
464	A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804132	15.6	26
463	Investigation of direct extrusion channel effects on twist extrusion using experimental and finite element analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 127, 115-123	4.6	7
462	Effect of annealing heat treatment on microstructural evolution and tensile behavior of Al <sub>0.5</sub> CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 728, 251-258	5.3	32
461	Surface Abrasive Torsion for Improved Mechanical Properties and Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 3151-3156	2.3	
460	Circumferential twisting during route B equal-channel angular pressing. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 259, 305-311	5.3	7
459	Metal Deposition on a Self-Generated Microfibril Network to Fabricate Stretchable Tactile Sensors Providing Analog Position Information. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801408	24	19
458	Tensile properties of cold-rolled TWIP-cored three-layer steel sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 686, 160-167	5.3	19
457	Tensile property improvement of TWIP-cored three-layer steel sheets fabricated by hot-roll-bonding with low-carbon steel or interstitial-free steel. <i>Scientific Reports</i> , <b>2017</b> , 7, 40231	4.9	23
456	Finite Element and Experimental Analyses on the Formability of Steel Sheets Produced by Compact Endless Cast and Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 1021-1032	2.3	3
455	Microstructural and kinetic investigation on the suppression of grain growth in nanocrystalline copper by the dispersion of silicon carbide nanoparticles. <i>Materials and Design</i> , <b>2017</b> , 119, 311-318	8.1	15
454	Constitutive modeling of deformation behavior of high-entropy alloys with face-centered cubic crystal structure. <i>Materials Research Letters</i> , <b>2017</b> , 5, 350-356	7.4	35

453	Mechanical and biological behavior of ultrafine-grained Ti alloy aneurysm clip processed using high-pressure torsion. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 68, 203-209	4.1	9
452	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 689, 122-133	5.3	109
451	Twist Extrusion as a Potent Tool for Obtaining Advanced Engineering Materials: A Review . <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600873	3.5	49
450	Residual Stress Effect on the Delayed Fracture of Twinning-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 2692-2696	2.3	12
449	Superior Pre-Osteoblast Cell Response of Etched Ultrafine-Grained Titanium with a Controlled Crystallographic Orientation. <i>Scientific Reports</i> , <b>2017</b> , 7, 44213	4.9	24
448	On the strain rate-dependent deformation mechanism of CoCrFeMnNi high-entropy alloy at liquid nitrogen temperature. <i>Materials Research Letters</i> , <b>2017</b> , 5, 472-477	7.4	54
447	Deformation-induced phase transformation of Co 20 Cr 26 Fe 20 Mn 20 Ni 14 high-entropy alloy during high-pressure torsion at 77 K. <i>Materials Letters</i> , <b>2017</b> , 202, 86-88	3.3	40
446	Novel 1.5 GPa-strength with 50%-ductility by transformation-induced plasticity of non-recrystallized austenite in duplex steels. <i>Scientific Reports</i> , <b>2017</b> , 7, 1255	4.9	35
445	Fabrication of Al/Al <sub>2</sub> Cu in situ nanocomposite via friction stir processing. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 779-788	3.3	27
444	On the rule-of-mixtures of the hardening parameters in TWIP-cored three-layer steel sheet. <i>Metals and Materials International</i> , <b>2017</b> , 23, 459-464	2.4	12
443	Threshold creep behaviour of an aged Mg <sub>70</sub> Zn <sub>10</sub> Ca alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 696, 536-543	5.3	10
442	Numerical analysis on the formation of P-orientation near coarse precipitates in FCC crystals during recrystallization. <i>Acta Materialia</i> , <b>2017</b> , 131, 363-372	8.4	11
441	Structure and properties of ultrafine-grained CoCrFeMnNi high-entropy alloys produced by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 698, 591-604	5.7	125
440	Cryogenic strength improvement by utilizing room-temperature deformation twinning in a partially recrystallized VCrMnFeCoNi high-entropy alloy. <i>Nature Communications</i> , <b>2017</b> , 8, 15719	17.4	190
439	Continuum understanding of twin formation near grain boundaries of FCC metals with low stacking fault energy. <i>Npj Computational Materials</i> , <b>2017</b> , 3,	10.9	20
438	Wear Resistance of the La <sub>62</sub> Cu <sub>12</sub> Ni <sub>12</sub> Al <sub>14</sub> Bulk Metallic Glass Under Dry Friction Conditions. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	3
437	Dynamic tensile behavior of twinning-induced plasticity/low-carbon (TWIP/LC) steel clad sheets bonded by hot rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 700, 387-396	5.3	13
436	Influence of high-pressure torsion and hot rolling on the microstructure and mechanical properties of aluminumBullerene composites. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 11988-12000	4.3	6

435	Interpretation of quasi-static and dynamic tensile behavior by digital image correlation technique in Twinning Induced Plasticity (TWIP) and low-carbon steel sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 693, 170-177	5.3	16
434	Key factors of stretch-flangeability of sheet materials. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 7808-7823	4.3	25
433	Deformation rate controls atomic-scale dynamic strain aging and phase transformation in high Mn TRIP steels. <i>Acta Materialia</i> , <b>2017</b> , 131, 187-196	8.4	34
432	Influences of high strain rate, low temperature, and deformation direction on microstructural evolution and mechanical properties of copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 684, 567-576	5.3	1
431	Neutron diffraction and finite element analysis of the residual stress distribution of copper processed by equal-channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 691-697	5.3	9
430	Quasi-static and dynamic deformation mechanisms interpreted by microstructural evolution in Twinning Induced Plasticity (TWIP) steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 684, 54-63	5.3	43
429	Shock wave compaction and sintering of mechanically alloyed CoCrFeMnNi high-entropy alloy powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 708, 291-300	5.3	26
428	Equivalent strain at large shear deformation: Theoretical, numerical and finite element analysis. <i>Journal of Applied Research and Technology</i> , <b>2017</b> , 15, 442-448	1.7	8
427	Ultrafine-Grained Materials Fabrication with High Pressure Torsion and Simulation of Plastic Deformation Inhomogeneous Characteristics <b>2017</b> ,		1
426	Effect of surface etching on the tensile behavior of coarse- and ultrafine-grained pure titanium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 707, 337-343	5.3	9
425	Novel twin-roll-cast Ti/Al clad sheets with excellent tensile properties. <i>Scientific Reports</i> , <b>2017</b> , 7, 8110	4.9	8
424	Microstructure and Mechanical Properties of Al-3 Vol% CNT Nanocomposites Processed by High-Pressure Torsion. <i>Archives of Metallurgy and Materials</i> , <b>2017</b> , 62, 1109-1112		4
423	Trade-off between tensile property and formability by partial recrystallization of CrMnFeCoNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 703, 324-330	5.3	59
422	Development of Methodology with Excellent Reproducibility for Evaluating Stretch-Flangeability Using a Sheared-Edge Tensile Test. <i>Experimental Mechanics</i> , <b>2017</b> , 57, 1349-1358	2.6	5
421	Microstructure development of ultra fine grained Mg-22 wt%Gd alloy prepared by high pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 181-191	5.3	12
420	Stretchability and drawability of twinning-Induced plasticity steel-Cored layer steel sheets. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 250, 357-362	5.3	4
419	Interpretation of dynamic tensile behavior by austenite stability in ferrite-austenite duplex lightweight steels. <i>Scientific Reports</i> , <b>2017</b> , 7, 15726	4.9	8
418	Fabrication of Fullerene-Reinforced Aluminum Matrix Nanocomposites. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2017</b> , 30, 973-982	2.5	16



4 <sup>17</sup>	Deep Drawing Behavior of CoCrFeMnNi High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 4111-4120	2.3	12
4 <sup>16</sup>	Review of principles and methods of severe plastic deformation for producing ultrafine-grained tubes. <i>Materials Science and Technology</i> , <b>2017</b> , 33, 905-923	1.5	71
4 <sup>15</sup>	Three-dimensional microstructure modeling of particulate composites using statistical synthetic structure and its thermo-mechanical finite element analysis. <i>Computational Materials Science</i> , <b>2017</b> , 126, 265-271	3.2	23
4 <sup>14</sup>	Effect of coarse precipitates on surface roughening of an FCC polycrystalline material using crystal plasticity. <i>Computational Materials Science</i> , <b>2017</b> , 126, 121-131	3.2	9
4 <sup>13</sup>	Effect of initial grain size on the microstructure and mechanical properties of high-pressure torsion processed twinning-induced plasticity steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 164-167	5.3	15
4 <sup>12</sup>	Thermally activated deformation and the rate controlling mechanism in CoCrFeMnNi high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 569-576	5.3	68
4 <sup>11</sup>	Stretch-Flangeability of Harmonic Structure Material Manufactured by Powder Metallurgy Method. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2017</b> , 24, 128-132	0.1	
4 <sup>10</sup>	Streamline approach to die design and investigation of material flow during the vortex extrusion process. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 3550-3560	4.5	7
4 <sup>09</sup>	High-temperature thermo-mechanical behavior of functionally graded materials produced by plasma sprayed coating: Experimental and modeling results. <i>Metals and Materials International</i> , <b>2016</b> , 22, 817-824	2.4	12
4 <sup>08</sup>	Multiscale architected materials with composition and grain size gradients manufactured using high-pressure torsion. <i>Scientific Reports</i> , <b>2016</b> , 6, 26590	4.9	29
4 <sup>07</sup>	Outstanding mechanical properties of high-pressure torsion processed multiscale TWIP-cored three layer steel sheet. <i>Scripta Materialia</i> , <b>2016</b> , 123, 122-125	5.6	16
4 <sup>06</sup>	Experimental and finite element analyses of plastic deformation behavior in vortex extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 674, 472-479	5.3	11
4 <sup>05</sup>	Online Measurement of Electrospinning Jet Velocity of Polyvinyl Alcohol. <i>International Polymer Processing</i> , <b>2016</b> , 31, 285-291	1	4
4 <sup>04</sup>	Factors governing hole expansion ratio of steel sheets with smooth sheared edge. <i>Metals and Materials International</i> , <b>2016</b> , 22, 1009-1014	2.4	37
4 <sup>03</sup>	Compressive deformation behavior of CrMnFeCoNi high-entropy alloy. <i>Metals and Materials International</i> , <b>2016</b> , 22, 982-986	2.4	42
4 <sup>02</sup>	Large deformation behavior of twin-induced plasticity steels under high-pressure torsion. <i>Metals and Materials International</i> , <b>2016</b> , 22, 1003-1008	2.4	13
4 <sup>01</sup>	Correlation between fracture toughness and stretch-flangeability of advanced high strength steels. <i>Materials Letters</i> , <b>2016</b> , 180, 322-326	3.3	46
4 <sup>00</sup>	Bi-modal Structure of Copper via Room-Temperature Partial Recrystallization After Cryogenic Dynamic Compression. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 1600-1606	2.3	4



399	Effects of Annealing Treatment Prior to Cold Rolling on Delayed Fracture Properties in Ferrite-Austenite Duplex Lightweight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 706-717	2.3	15
398	Microstructure and high-temperature mechanical properties of the Mg <sub>2</sub> Zn <sub>0.5</sub> Ca alloy in the as-cast and aged conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 649, 441-448	5.3	15
397	Compressibility of hierarchic-architected agglomerates of hydrogen-reduced copper nanopowders. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 82-95	4.3	2
396	Micromechanical finite element analysis of strain partitioning in multiphase medium manganese TWIP+TRIP steel. <i>Acta Materialia</i> , <b>2016</b> , 108, 219-228	8.4	110
395	Modeling and Characterization of Texture Evolution in Twist Extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 1248-1260	2.3	13
394	Structural characterization of ultrafine-grained interstitial-free steel prepared by severe plastic deformation. <i>Acta Materialia</i> , <b>2016</b> , 105, 258-272	8.4	57
393	Mechanical properties and microstructural evaluation of AA1100 to AZ31 dissimilar friction stir welds. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 170, 251-260	4.4	41
392	Structural and phase transformation in a TWIP steel subjected to high pressure torsion. <i>Materials Letters</i> , <b>2016</b> , 166, 321-324	3.3	20
391	Effects of dendrite size on dynamic tensile deformation behavior in Zr-based amorphous alloys containing ductile dendrites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 650, 102-109	5.3	6
390	Characterizations of dissimilar friction welding of ST37 and CK60 steels. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 85, 2773-2781	3.2	6
389	Effects of Friction and Anvil Design on Plastic Deformation during the Compression Stage of High-Pressure Torsion. <i>Journal of Korean Institute of Metals and Materials</i> , <b>2016</b> , 54, 831-837	1	3
388	Obtaining Reliable True Plastic Stress-Strain Curves in a Wide Range of Strains Using Digital Image Correlation in Tensile Testing. <i>Journal of Korean Institute of Metals and Materials</i> , <b>2016</b> , 54, 231-236	1	29
387	Effect of Revolution on Inhomogeneous Deformation of IF Steel in High Pressure Torsion. <i>Materials Sciences and Applications</i> , <b>2016</b> , 07, 673-679	0.3	
386	Analyses of Severe Plastic Deformation Behavior of Hot Isostatic Pressed Ni-base Superalloy during High Pressure Torsion Process. <i>Transactions of Materials Processing</i> , <b>2016</b> , 25, 254-260		
385	Dynamic tensile deformation behavior of Zr-based amorphous alloy matrix composites reinforced with tungsten or tantalum fibers. <i>Metals and Materials International</i> , <b>2016</b> , 22, 707-713	2.4	6
384	Compressive behavior of NiTi-based composites reinforced with alumina nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 803-807	5.7	13
383	Real Hydrostatic Pressure in High-Pressure Torsion Measured by Bismuth Phase Transformations and FEM Simulations. <i>Materials Transactions</i> , <b>2016</b> , 57, 533-538	1.3	29
382	Strain induced hardening and softening behaviors of deformed Cu and Cu <sub>3</sub> Fe alloys. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 599-608	2.5	2

381	Development of an oxide-dispersion-strengthened steel by introducing oxygen carrier compound into the melt aided by a general thermodynamic model. <i>Scientific Reports</i> , <b>2016</b> , 6, 38621	4.9	28
380	Novel strip-cast Mg/Al clad sheets with excellent tensile and interfacial bonding properties. <i>Scientific Reports</i> , <b>2016</b> , 6, 26333	4.9	4
379	Ton-scale metal-carbon nanotube composite: The mechanism of strengthening while retaining tensile ductility. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 8, 245-250	3.9	24
378	Correlation Between Microstructures and Tensile Properties of Strain-Based API X60 Pipeline Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 2726-2738	2.3	16
377	Effects of Effective Dendrite Size on Dynamic Tensile Properties of Ti-Based Amorphous Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 1504-1509	2.3	4
376	Enhanced wear resistivity of a Zr-based bulk metallic glass processed by high-pressure torsion under reciprocating dry conditions. <i>Metals and Materials International</i> , <b>2016</b> , 22, 383-390	2.4	7
375	Ring-Constraint High-Pressure Torsion Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 3473-3478	2.3	3
374	Microstructure and Mechanical Properties of Ultra-fine-Grained Al-Mg-Si Tubes Produced by Parallel Tubular Channel Angular Pressing Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 1805-1813	2.3	14
373	Thickness inhomogeneity in hardness and microstructure of copper after the compressive stage in high-pressure torsion. <i>Metals and Materials International</i> , <b>2015</b> , 21, 7-13	2.4	12
372	Plastic Deformation Behavior and Microstructural Evolution of Al-Core/Cu-Sheath Composites in Multi-pass Caliber Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 260-269	2.3	6
371	Plastic deformation and microstructural evolution during the shock consolidation of ultrafine copper powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 230-244	5.3	15
370	Effect of C content on the microstructure and tensile properties of lightweight ferritic Fe-8Al-5Mn-0.1Nb alloy. <i>Metals and Materials International</i> , <b>2015</b> , 21, 79-84	2.4	21
369	Microstructure, grain growth, and hardness during annealing of nanocrystalline Cu powders synthesized via high energy mechanical milling. <i>Materials and Design</i> , <b>2015</b> , 83, 644-650	8.1	23
368	Work-hardening induced tensile ductility of bulk metallic glasses via high-pressure torsion. <i>Scientific Reports</i> , <b>2015</b> , 5, 9660	4.9	64
367	Torsional and compressive behaviours of a hybrid material: Spiral fibre reinforced metal matrix composite. <i>Materials and Design</i> , <b>2015</b> , 85, 404-411	8.1	18
366	Finite element analysis of the plastic deformation in tandem process of simple shear extrusion and twist extrusion. <i>Materials and Design</i> , <b>2015</b> , 83, 858-865	8.1	32
365	Surface modification of multipass caliber-rolled Ti alloy with dexamethasone-loaded graphene for dental applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9598-607	9.5	65
364	Three-dimensional real structure-based finite element analysis of mechanical behavior for porous titanium manufactured by a space holder method. <i>Computational Materials Science</i> , <b>2015</b> , 100, 2-7	3.2	23

363	Dynamic strain aging of twinning-induced plasticity (TWIP) steel in tensile testing and deep drawing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 633, 136-143	5.3	45
362	Unique Appearance of Lamellar Cleavage Patterns on Fracture Surfaces of Ti-Based Amorphous Matrix Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2506-2515	2.3	3
361	Effect of starting materials on the wear performance of NiTi-based composites. <i>Wear</i> , <b>2015</b> , 334-335, 35-43	3.5	20
360	Effect of high-pressure torsion on the microstructure and strengthening mechanisms of hot-consolidated Cu/NT nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 638, 289-295	5.3	33
359	Fast and fully-scalable synthesis of reduced graphene oxide. <i>Scientific Reports</i> , <b>2015</b> , 5, 10160	4.9	360
358	Using dilatometry to study martensitic stabilization and recrystallization kinetics in a severely deformed NiTi alloy. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 4003-4011	4.3	11
357	Microstructural evolution and strain-hardening behavior of multi-pass caliber-rolled Ti-3Nb-3Zr. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 648, 359-366	5.3	25
356	Off-axis twist extrusion for uniform processing of round bars. <i>Metals and Materials International</i> , <b>2015</b> , 21, 734-740	2.4	16
355	Simulation of the Effective of Friction on the Deformation in Equal Channel Angular Pressing (ECAP). <i>Key Engineering Materials</i> , <b>2015</b> , 656-657, 526-531	0.4	4
354	Dynamic tension-compression asymmetry of martensitic transformation in austenitic Fe-0.4, 1.0)C-8Mn steels for cryogenic applications. <i>Acta Materialia</i> , <b>2015</b> , 96, 37-46	8.4	25
353	Contributions of different strengthening mechanisms to the shear strength of an extruded Mg-2Zn-0.5Ca alloy. <i>Philosophical Magazine</i> , <b>2015</b> , 95, 3452-3466	1.6	13
352	Shape memory effect in nanocrystalline NiTi alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 626, 203-206	5.3	34
351	Microstructure evolution and mechanical properties of pure aluminum deformed by equal channel angular pressing and direct extrusion in one step through an integrated die. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 252-263	5.3	19
350	Evolution of microstructure and hardness in AZ31 alloy processed by high pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 98-106	5.3	48
349	Electron Holography: Correlative High-Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer (Adv. Mater. Interfaces 1/2015). <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2,	4.6	3
348	Strain Softening Induced by High Pressure Torsion in Copper Alloys. <i>Materials Transactions</i> , <b>2015</b> , 56, 1658-1663	1.3	4
347	Effect of the interfacial condition on the microtexture near the interface of Al/Cu composites during multi-pass caliber rolling. <i>Materials and Design</i> , <b>2015</b> , 82, 28-36	8.1	10
346	Simple shear model of twist extrusion and its deviations. <i>Metals and Materials International</i> , <b>2015</b> , 21, 569-579	2.4	16

345	Toward architecturing of metal composites by twist extrusion. <i>Materials Research Letters</i> , <b>2015</b> , 3, 161-168	1.6	12
344	Effect of friction stir processing on the microstructure of pure magnesium castings. <i>International Journal of Cast Metals Research</i> , <b>2015</b> , 28, 345-351	1	3
343	Effect of high-pressure torsion on the microstructure and wear behavior of NiTi alloy. <i>Metals and Materials International</i> , <b>2015</b> , 21, 891-896	2.4	13
342	Correlative High-Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1400281	4.6	13
341	Consolidation of Cu-based amorphous alloy powders by high-pressure torsion. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 3164-3174	4.3	12
340	Annealing behavior and shape memory effect in NiTi alloy processed by equal-channel angular pressing at room temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 629, 16-22	5.3	24
339	Cyclic Loading Test for Beam-Column Connections of Concrete-Filled U-Shaped Steel Beams and Concrete-Encased Steel Angle Columns. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 04015020	3	30
338	Al/C60 Nanocomposites Fabricated by High-Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 1838-1842	2.3	9
337	Microstructure, plastic deformation and strengthening mechanisms of an AlMgBi alloy with a bimodal grain structure. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 632, 540-548	5.7	29
336	Interpretation of Fracture Toughness and R-Curve Behavior by Direct Observation of Microfracture Process in Ti-Based Dendrite-Containing Amorphous Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 1588-1596	2.3	3
335	Effects of Effective Dendrite Size on Tensile Deformation Behavior in Ti-Based Dendrite-Containing Amorphous Matrix Composites Modified from Ti-6Al-4V Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 235-250	2.3	12
334	Correlation Between Superheated Liquid Fragility And Onset Temperature Of Crystallization For Al-Based Amorphous Alloys. <i>Archives of Metallurgy and Materials</i> , <b>2015</b> , 60, 1543-1546		1
333	Effect of Fiber Diameter on Quasi-static and Dynamic Compressive Properties of Zr-Based Amorphous Matrix Composites Reinforced with Stainless Steel Continuous Fibers. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 1284-1293	2.3	1
332	Anisotropy of Dynamic Compressive Properties of Non-Heat-Treating Cold-Heading-Quality Steel Bars. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 1294-1305	2.3	3
331	Investigation of thermal resistance and power consumption in Ga-doped indium oxide (In <sub>2</sub> O <sub>3</sub> ) nanowire phase change random access memory. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 103510	3.4	3
330	Circumferential shear strain in torsion-based severe plastic deformation. <i>Scripta Materialia</i> , <b>2014</b> , 82, 41-44	5.6	4
329	Ga-doped indium oxide nanowire phase change random access memory cells. <i>Nanotechnology</i> , <b>2014</b> , 25, 055205	3.4	9
328	An upper bound solution for twist extrusion process. <i>Metals and Materials International</i> , <b>2014</b> , 20, 825-834	3.4	10

327	Effect of Post-annealing on Grain Boundary of Nano-crystalline Cu Processed by Powder High-Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4748-4752	2.3	3
326	Finite Element Analysis for Application to the Forming Process of Ti-based Bulk Metallic Glasses. <i>Materials and Manufacturing Processes</i> , <b>2014</b> , 29, 801-807	4.1	2
325	Microstructural characterization of HIP consolidated NiTi-based Al <sub>2</sub> O <sub>3</sub> composites. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 606, 21-26	5.7	21
324	Quasi-static and dynamic compressive properties of Ti-based amorphous alloys modified from conventional Ti <sub>60</sub> Al <sub>40</sub> V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 197-205	5.3	6
323	Wear properties of brass samples subjected to constrained groove pressing process. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 531-537		48
322	Finite Element and Experimental Analysis of Closure and Contact Bonding of Pores During Hot Rolling of Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4002-4011	2.3	8
321	Consolidation of Carbon Nanotube Reinforced Aluminum Matrix Composites by High-Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4129-4137	2.3	30
320	Finite element analysis of the effect of friction in high pressure torsion. <i>Metals and Materials International</i> , <b>2014</b> , 20, 445-450	2.4	21
319	Interfacial microstructures and properties of aluminum alloys/galvanized low-carbon steel under high-pressure torsion. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 287-293		25
318	Microstructure and mechanical properties of a Mg <sub>92</sub> Zn <sub>8</sub> alloy produced by a powder metallurgy route. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S95-S100	5.7	44
317	Microstructure and compressibility of SiC nanoparticles reinforced Cu nanocomposite powders processed by high energy mechanical milling. <i>Ceramics International</i> , <b>2014</b> , 40, 951-960	5.1	40
316	Wear properties of high pressure torsion processed ultrafine grained Al <sub>70</sub> Si alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 373-382		68
315	Space-holder effect on designing pore structure and determining mechanical properties in porous titanium. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 712-718		51
314	Dislocation density-based finite element analysis of large strain deformation behavior of copper under high-pressure torsion. <i>Acta Materialia</i> , <b>2014</b> , 76, 281-293	8.4	94
313	Finite element analysis for the geometry effect on strain inhomogeneity during high-pressure torsion. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6620-6628	4.3	17
312	Hollow cone high-pressure torsion: Microstructure and tensile strength by unique severe plastic deformation. <i>Scripta Materialia</i> , <b>2014</b> , 71, 41-44	5.6	14
311	Effect of Homogenization Treatment on the Microstructure and Mechanical Property Evolutions of As-Cast Al-Cu Alloy during High-Pressure Torsion. <i>Materials Transactions</i> , <b>2014</b> , 55, 1405-1413	1.3	4
310	Role of an encapsulating layer for reducing resistance drift in phase change random access memory. <i>AIP Advances</i> , <b>2014</b> , 4, 127155	1.5	3



309	Finite Element Simulation of Powder Compaction via Shock Consolidation Using Gas-gun System. <i>Procedia Engineering</i> , <b>2014</b> , 81, 1180-1185		4
308	Microstructure evolution in ultrafine-grained interstitial free steel processed by high pressure torsion. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2014</b> , 63, 012055	0.4	2
307	An electron back-scattered diffraction study on the microstructure evolution of severely deformed aluminum Al6061 alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2014</b> , 63, 012089	0.4	2
306	Fabrication of W-Cu alloy via combustion synthesis infiltration under an ultra-gravity field. <i>Metals and Materials International</i> , <b>2014</b> , 20, 1145-1150	2.4	2
305	Quantum Dots: Bandgap Tuning with Thermal Residual Stresses Induced in a Quantum Dot (Small 18/2014). <i>Small</i> , <b>2014</b> , 10, 3677-3677	11	
304	Bandgap tuning with thermal residual stresses induced in a quantum dot. <i>Small</i> , <b>2014</b> , 10, 3678-84	11	10
303	Flexural Test for Steel-Concrete Composite Members Using Prefabricated Steel Angles. <i>Journal of Structural Engineering</i> , <b>2014</b> , 140, 04013094	3	18
302	Local and Global Stress/Strain Behaviors of Transformation-Induced Plasticity Steel Using the Combined Nanoindentation and Finite Element Analysis Method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 6008-6015	2.3	4
301	Microstructure and Defect Structure Evolution in Ultra-Fine Grained MgAlZn Alloy. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 390-395	0.4	
300	Three-Dimensional Characterization of SiC Particle-Reinforced Al Composites Using Serial Sectioning Tomography and Thermo-mechanical Finite Element Simulation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 5679-5690	2.3	20
299	Crystal plasticity modeling of the effect of precipitate states on the work hardening and plastic anisotropy in an AlMgBi alloy. <i>Computational Materials Science</i> , <b>2014</b> , 83, 78-85	3.2	23
298	Serration Phenomena Occurring During Tensile Tests of Three High-Manganese Twinning-Induced Plasticity (TWIP) Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 633-646	2.3	30
297	Microstructure and Mechanical Properties of Copper Processed by Twist Extrusion with a Reduced Twist-Line Slope. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2232-2241	2.3	22
296	Residual Stress Analysis in Deep Drawn Twinning Induced Plasticity (TWIP) Steels Using Neutron Diffraction Method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 1953-1961	2.3	11
295	Plastic Deformation and Computer Simulations of Equal Channel Angular Pressing. <i>Journal of Korean Institute of Metals and Materials</i> , <b>2014</b> , 52, 87-99	1	23
294	Planar Shock Wave Compaction of Oxidized Copper Nano Powders using High Speed Collision and Its Mechanical Properties. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2014</b> , 21, 39-43	0.1	2
293	Manufacturing and Evaluation of the Properties of Hybrid Bulk Material by Shock-compaction of Nanocrystalline Cu-Ni Mixed Powder. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2014</b> , 21, 196-201	0.1	
292	Analysis of the Change in Microstructures of Nano Copper Powders During the Hydrogen Reduction using X-ray Diffraction Patterns and Transmission Electron Microscope, and the Mechanical Property of Compacted Powders. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2014</b> , 21, 207-214	0.1	



291	Finite Element Analysis of the R-value of a 2-Layer Clad Steel. <i>Transactions of Materials Processing</i> , <b>2014</b> , 23, 311-316		1
290	Fabrication of Silicon Carbide Quantum Dots via Chemical-Etching Approach and Fluorescent Imaging for Living Cells. <i>Materials Sciences and Applications</i> , <b>2014</b> , 05, 177-182	0.3	
289	Microstructure Evolution and Mechanical Properties of Al-1080 Processed by a Combination of Equal Channel Angular Pressing and High Pressure Torsion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2581-2590	2.3	11
288	Effects of microstructure and pipe forming strain on yield strength before and after spiral pipe forming of API X70 and X80 linepipe steel sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 573, 18-26	5.3	20
287	Constitutive Modeling of Hot Deformation Behavior of the AA6063 Alloy with Different Precipitates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 5853-5860	2.3	10
286	Structural, luminescent, and NO <sub>2</sub> sensing properties of SnO <sub>2</sub> -core/V <sub>2</sub> O <sub>5</sub> -shell nanorods. <i>Journal of Electroceramics</i> , <b>2013</b> , 30, 6-12	1.5	10
285	Mechanical properties and microstructure evolution in ultrafine-grained AZ31 alloy processed by severe plastic deformation. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 4705-4712	4.3	24
284	Design of Hierarchical Cellular Metals Using Accumulative Bundle Extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4031-4036	2.3	4
283	Dendrite size and tensile ductility in Ti-based amorphous alloys containing ductile dendrites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 587, 143-149	5.3	5
282	An Investigation on the Fatigue Fracture of P/M Al-SiC Nanocomposites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2662-2671	2.3	17
281	Effects of Inclusions on Delayed Fracture Properties of Three Twinning Induced Plasticity (TWIP) Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 776-786	2.3	20
280	Finite Element Analysis of Deformation Homogeneity During Continuous and Batch Type Equal Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3222-3227	1.6	4
279	Effects of intergranular carbide precipitation on delayed fracture behavior in three Twinning Induced Plasticity (TWIP) steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 587, 85-99	5.3	32
278	Effect of nano Al <sub>2</sub> O <sub>3</sub> addition on mechanical properties and wear behavior of NiTi intermetallic. <i>Materials &amp; Design</i> , <b>2013</b> , 51, 375-382		26
277	Fabrication, characterization and mechanical properties of hybrid composites of copper using the nanoparticulates of SiC and carbon nanotubes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 572, 83-90	5.3	60
276	Evaluation of Mechanical Properties of Tubular Materials With Hydraulic Bulge Test for Superconducting Radio Frequency (SRF) Cavities. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 3500604-3500604	1.8	1
275	Analysis of plastic deformation behavior during back pressure equal channel angular pressing by the finite element method. <i>Computational Materials Science</i> , <b>2013</b> , 77, 202-207	3.2	22
274	MECHANICAL-ACTIVATED PHASE FORMATION OF NiTi IN THE PRESENCE OF NANOPARTICLES. <i>Nano</i> , <b>2013</b> , 08, 1350048	1.1	9

273	Simulation and experimental analyses of dynamic strain aging of a supersaturated age hardenable aluminum alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 585, 165-173	5.3	13
272	Inhomogeneity Through Warm Equal Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 1666-1671	1.6	9
271	Shear banding behavior and fracture mechanisms of Zr55Al10Ni5Cu30 bulk metallic glass in uniaxial compression analyzed using a digital image correlation method. <i>Intermetallics</i> , <b>2013</b> , 32, 21-29	3.5	25
270	Method for measuring nanoscale local strain in a dual phase steel using digital image correlation with nanodot patterns. <i>Scripta Materialia</i> , <b>2013</b> , 68, 245-248	5.6	55
269	Recycling of AlSi8Cu3 alloy chips via high pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 121-128	5.3	31
268	High temperature thermal stability of pure copper and copper/carbon nanotube composites consolidated by High Pressure Torsion. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 51, 71-79	8.4	49
267	Quasi-static and dynamic compressive deformation behaviors in Zr-based amorphous alloys containing ductile dendrites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 579, 77-85	5.3	22
266	Austenite stability and heterogeneous deformation in fine-grained transformation-induced plasticity-assisted steel. <i>Scripta Materialia</i> , <b>2013</b> , 68, 933-936	5.6	66
265	High tensile ductility of Ti-based amorphous matrix composites modified from conventional Ti-6Al-4V titanium alloy. <i>Acta Materialia</i> , <b>2013</b> , 61, 3012-3026	8.4	50
264	Cross Flow During Twist Extrusion: Theory, Experiment, and Application. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 3211-3220	2.3	29
263	High-pressure torsion for enhanced atomic diffusion and promoting solid-state reactions in the aluminum-copper system. <i>Acta Materialia</i> , <b>2013</b> , 61, 3482-3489	8.4	132
262	Effect of nanoparticle content on the microstructural and mechanical properties of nano-SiC dispersed bulk ultrafine-grained Cu matrix composites. <i>Materials &amp; Design</i> , <b>2013</b> , 52, 881-887		70
261	Estimating interface bonding strength in clad metals using digital image correlation. <i>Scripta Materialia</i> , <b>2013</b> , 68, 893-896	5.6	14
260	Microstructural development and mechanical properties of nanostructured copper reinforced with SiC nanoparticles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 568, 33-39	5.3	47
259	Cyclic Seismic Testing of Composite Concrete-Filled U-Shaped Steel Beam to H-Shaped Column Connections. <i>Journal of Structural Engineering</i> , <b>2013</b> , 139, 360-378	3	8
258	Architecturing of Metal-Based Composites with Concurrent Nanostructuring: A New Paradigm of Materials Design. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 336-340	3.5	71
257	Mechanisms of toughness improvement in Charpy impact and fracture toughness tests of non-heat-treating cold-drawn steel bar. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 571, 38-48	5.3	20
256	Hardness and microstructure of interstitial free steels in the early stage of high-pressure torsion. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 4698-4704	4.3	12

255	Microstructure, strengthening mechanisms and hot deformation behavior of an oxide-dispersion strengthened UFG Al6063 alloy. <i>Materials Characterization</i> , <b>2013</b> , 75, 108-114	3.9	29
254	Kinetic study of non-isothermal crystallization in Al80Fe10Ti5Ni5 metallic glass. <i>Metals and Materials International</i> , <b>2013</b> , 19, 901-906	2.4	8
253	Grain refinement and tensile strength of carbon nanotube-reinforced Cu matrix nanocomposites processed by high-pressure torsion. <i>Metals and Materials International</i> , <b>2013</b> , 19, 927-932	2.4	36
252	Analysis of stress states in compression stage of high pressure torsion using slab analysis method and finite element method. <i>Metals and Materials International</i> , <b>2013</b> , 19, 1021-1027	2.4	16
251	Strength and Ductility of Ultrafine Grained Metallic Materials <b>2013</b> , 557-566		
250	Comparative Analysis of Two Twist-Based SPD Processes: Elliptical Cross-Section Spiral Equal-Channel Extrusion vs. Twist Extrusion. <i>Materials Transactions</i> , <b>2013</b> , 54, 1587-1591	1.3	13
249	Tomography-based Finite Element Analysis for the Mechanical Behavior of Porous Titanium Manufactured by a Space Holder Method. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2013</b> , 20, 350-354	0.1	2
248	Numerical and experimental investigation of the deformation behavior during the accumulative back extrusion of an AZ91 magnesium alloy. <i>Materials &amp; Design</i> , <b>2012</b> , 35, 251-258		43
247	A combination of severe plastic deformation and ageing phenomena in AlMgSi Alloys. <i>Materials &amp; Design</i> , <b>2012</b> , 36, 735-740		38
246	High-temperature deformation and structural restoration of a nanostructured Al alloy. <i>Scripta Materialia</i> , <b>2012</b> , 66, 911-914	5.6	12
245	A semi-phenomenological constitutive model for hcp materials as exemplified by alpha titanium. <i>Scripta Materialia</i> , <b>2012</b> , 67, 121-124	5.6	23
244	The dead metal zone in high-pressure torsion. <i>Scripta Materialia</i> , <b>2012</b> , 67, 384-387	5.6	46
243	Dynamic restoration and microstructural evolution during hot deformation of a P/M Al6063 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 542, 56-63	5.3	29
242	Microstructures and mechanical properties of MgZn alloy consolidated from gas-atomized powders using high-pressure torsion. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7117-7123	4.3	30
241	Effects of Aluminum Addition on Tensile and Cup Forming Properties of Three Twinning Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 1870-1883	2.3	31
240	Nanoindentation analysis for local properties of ultrafine grained copper processed by high pressure torsion. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7828-7834	4.3	13
239	Preface to the special issue on ultrafine-grained materials. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7717-7718	4.3	1
238	Mechanical properties and thermal stability of bulk Cu cold consolidated from atomized powders by high-pressure torsion. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7770-7776	4.3	16

237	Deformation behavior of consecutive workpieces in equal channel angular pressing of solid dies. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7877-7882	4.3	6
236	Effects of microstructure and yield ratio on strain hardening and Bauschinger effect in two API X80 linepipe steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 551, 192-199	5.3	34
235	X-ray diffraction study on the microstructure of a MgZn alloy consolidated by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 539, 32-35	5.7	19
234	Finite element analysis of plastic deformation in twist extrusion. <i>Computational Materials Science</i> , <b>2012</b> , 60, 194-200	3.2	59
233	Constitutive model for high temperature deformation behavior of TiZrNiBe bulk metallic glass in supercooled liquid region. <i>Computational Materials Science</i> , <b>2012</b> , 61, 213-223	3.2	7
232	Analysis and estimation of yield strength of API X80 linepipe steel pipe by low-cycle fatigue tests. <i>Metals and Materials International</i> , <b>2012</b> , 18, 597-606	2.4	5
231	Correlation of Microstructure with Mechanical Properties of Zr-Based Amorphous Matrix Composite Reinforced with Tungsten Continuous Fibers and Ductile Dendrites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 4088-4096	2.3	8
230	Dynamic Compressive Properties of Zr-based Amorphous Matrix Composites Reinforced with Tungsten Continuous Fibers or Porous Foams. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 1911-1920	2.3	10
229	Deformation behavior in the tubular channel angular pressing (TCAP) as a noble SPD method for cylindrical tubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 819-827	2.6	17
228	Consolidation of Amorphous Powders by Hot Pressing. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-10	3.2	3
227	Microstructure and Thermal Stability of Copper - Carbon Nanotube Composites Consolidated by High Pressure Torsion. <i>Materials Science Forum</i> , <b>2012</b> , 729, 228-233	0.4	4
226	Microstructural Evolution of UFG Magnesium Alloy Produced by Accumulative Back Extrusion (ABE). <i>Materials and Manufacturing Processes</i> , <b>2012</b> , 27, 267-272	4.1	29
225	Metastable Phases in Al80Fe10Ti5Ni5 Alloy Fabricated by Non-Equilibrium Processes. <i>Materials Transactions</i> , <b>2012</b> , 53, 1739-1743	1.3	1
224	Deformation Behavior in Tubular Channel Angular Pressing (TCAP) Using Triangular and Semicircular Channels. <i>Materials Transactions</i> , <b>2012</b> , 53, 8-12	1.3	27
223	Ultrafine Grained Cu-diamond Composites using High Pressure Torsion. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2012</b> , 19, 204-209	0.1	6
222	Densification of Copper Powders using High-pressure Torsion Process. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2012</b> , 19, 333-337	0.1	2
221	Inhomogeneous Hardness Distribution of High Pressure Torsion Processed IF Steel Disks. <i>Materials Sciences and Applications</i> , <b>2012</b> , 03, 234-239	0.3	3
220	Investigation of Microhardness and Microstructure of AZ31 Alloy after High-Pressure Torsion <b>2011</b> , 589-594		2

219	Microstructural Aspects during the Preparation of Y3Al5O12 by Combustion Synthesis and Temperature Field Simulation. <i>Materials Transactions</i> , <b>2011</b> , 52, 685-690	1.3	
218	Tubular channel angular pressing (TCAP) as a novel severe plastic deformation method for cylindrical tubes. <i>Materials Letters</i> , <b>2011</b> , 65, 3009-3012	3.3	124
217	Hot deformation of ultrafine-grained Al6063/Al2O3 nanocomposites. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 4994-5001	4.3	18
216	Amorphous phase formation in Al80Fe10M10 (M = Ni, Ti, and V) ternary systems by mechanical alloying. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7633-7638	4.3	9
215	Microstructure and Mechanical Properties of Oxide-Dispersion Strengthened Al6063 Alloy with Ultra-Fine Grain Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 816-824	2.3	33
214	Forming Nanocrystalline Structures in Metal Particle Impact. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3006-3012	2.3	13
213	Effects of Al addition on deformation and fracture mechanisms in two high manganese TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2922-2928	5.3	141
212	Microstructure and hardness of copper/carbon nanotube composites consolidated by High Pressure Torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4690-4695	5.3	64
211	Microstructural features, texture and strengthening mechanisms of nanostructured AA6063 alloy processed by powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 3981-3989	5.3	57
210	Mechanical properties of copper after compression stage of high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4840-4844	5.3	49
209	Microstructure inhomogeneity in ultra-fine grained bulk AZ91 produced by accumulative back extrusion (ABE). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4312-4317	5.3	62
208	A plastic-yield compaction model for nanostructured Al6063 alloy and Al6063/Al2O3 nanocomposite powder. <i>Powder Technology</i> , <b>2011</b> , 211, 215-220	5.2	18
207	Densification and Nanocrystallization of Water-Atomized Pure Iron Powder Using High Pressure Torsion. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2011</b> , 18, 411-416	0.1	5
206	Investigation of Microhardness and Microstructure of AZ31 Alloy after High Pressure Torsion <b>2011</b> , 589-594		
205	Effect of Particle Size on Compactibility of Water-atomized Pure Iron Powder. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2011</b> , 18, 221-225	0.1	2
204	Quantitative Analysis of Roughness of Powder Surface Using Three-Dimensional Laser Profiler and its Effect on Green Strength of Powder Compacts. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2011</b> , 18, 406-410	0.1	2
203	Hot Workability of Ultrafine-Grained Aluminum Alloy Produced by Severe Plastic Deformation of Al6063 Powder and Consolidation. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 979-984	0.4	1
202	Grain refinement under high strain rate impact: A numerical approach. <i>Computational Materials Science</i> , <b>2010</b> , 48, 124-132	3.2	37



201	The Effects of a Stabilizer Thickness of the YBCO Coated Conductor (CC) on the Quench/Recovery Characteristics. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 1246-1249	1.8	19
200	Adiabatic Shear Banding in an Al-Mg-Si Alloy Processed by Equal Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 1014-1017	0.4	6
199	Predicting the Adiabatic Temperature of Transparent Y3Al5O12 Prepared via Combustion Synthesis under Ultra-High Gravity. <i>Materials Transactions</i> , <b>2010</b> , 51, 2230-2235	1.3	6
198	Deformation Characteristics Evaluation of Modified Equal Channel Angular Pressing Processes. <i>Materials Transactions</i> , <b>2010</b> , 51, 46-50	1.3	8
197	Plastic Flow and Strain Homogeneity of an Equal Channel Angular Pressing Process Enhanced through Forward Extrusion. <i>Materials Transactions</i> , <b>2010</b> , 51, 977-981	1.3	4
196	3D FEM simulations for the homogeneity of plastic deformation in AlCu alloys during ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1404-1410	5.3	53
195	In situ synthesis of nanocrystalline Al6063 matrix nanocomposite powder via reactive mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 4897-4905	5.3	23
194	Upper bound analysis of deformation and dynamic ageing behavior in elevated temperature equal channel angular pressing of Al-Mg-Si alloys. <i>Metals and Materials International</i> , <b>2010</b> , 16, 363-369	2.4	12
193	Tensile properties and fracture characteristics of ECAP-processed Al and Al-Cu alloys. <i>Metals and Materials International</i> , <b>2010</b> , 16, 709-716	2.4	26
192	Shallow and Deep Centers in As-Grown and Annealed MgZnO/ZnO Structures with Quantum Wells. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 601-607	1.9	4
191	Microstructure and tensile behavior of Al and Al-matrix carbon nanotube composites processed by high pressure torsion of the powders. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4652-4658	4.3	39
190	Comparison of deformation and microstructural evolution between equal channel angular pressing and forward extrusion using the dislocation cell mechanism-based finite element method. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4705-4710	4.3	6
189	Analyses of route Bc equal channel angular pressing and post-equal channel angular pressing behavior by the finite element method. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4682-4688	4.3	5
188	Strain partitioning and mechanical stability of retained austenite. <i>Scripta Materialia</i> , <b>2010</b> , 63, 297-299	5.6	144
187	Wear properties of ECAP-processed ultrafine grained AlCu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 3726-3732	5.3	88
186	Dynamic ageing and the mechanical response of AlMgSi alloy through equal channel angular pressing. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4076-4082		39
185	Finite-element analysis for high-temperature deformation of bulk metallic glasses in a supercooled liquid region based on the free volume constitutive model. <i>Acta Materialia</i> , <b>2010</b> , 58, 4267-4280	8.4	17
184	Consolidation and Mechanical Behavior of Gas Atomized MgZn4.3Y0.7Alloy Powders using High Pressure Torsion. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2010</b> , 17, 190-196	0.1	4



183	Ultrafine Grained Bulk Al Matrix Carbon Nanotube Composites Processed by High Pressure Torsion. <i>Transactions of Materials Processing</i> , <b>2010</b> , 19, 423-428		5
182	MULTI-SCALE FINITE ELEMENT SIMULATION OF SEVERE PLASTIC DEFORMATION. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 1621-1626	1.1	1
181	Plastic deformation analysis of accumulative back extrusion. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 1715-1719	0.5	4
180	Finite element analysis of the bending behavior of a workpiece in equal channel angular pressing. <i>Metals and Materials International</i> , <b>2009</b> , 15, 215-219	2.4	14
179	The effects of alloying and pressing routes in equal channel angular pressing of Cu-Fe-Cr and Cu-Fe-Cr-Ag composites. <i>Metals and Materials International</i> , <b>2009</b> , 15, 733-739	2.4	14
178	Effects of the spin line temperature profile and melt index of poly(propylene) on melt-electrospinning. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 391-396	2.3	40
177	Analysis of thermal behavior during equal channel multi-angular pressing by the 3-dimensional finite volume method. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 503, 130-136	5.3	10
176	Persistent photoconductivity in MgZnO alloys. <i>Semiconductors</i> , <b>2009</b> , 43, 577-580	0.7	1
175	An experimental verification of the finite element modelling of equal channel angular pressing. <i>Computational Materials Science</i> , <b>2009</b> , 46, 347-351	3.2	37
174	Coupled Analysis of Heat Transfer and Deformation in Equal Channel Angular Pressing of Al and Steel. <i>Materials Transactions</i> , <b>2009</b> , 50, 40-43	1.3	13
173	Microstructural evolution of equal-channel angular pressed interstitial-free steel. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 834-837	0.5	5
172	Analysis of Densification Behavior of Magnesium Powders in Extrusion using the Critical Relative Density Model. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2009</b> , 16, 50-55	0.1	
171	Finite Element Analysis of Densification of Mg Powders during Equal Channel Angular Pressing: Effect of Sheath. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2009</b> , 16, 85-90	0.1	
170	Materials and Process Development for ZnMgO/ZnO Light-Emitting Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 1048-1052	3.8	14
169	Annealing effects on electrical properties of MgZnO films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 083704	2.5	15
168	Severe plastic deformation and strain localization in groove pressing. <i>Computational Materials Science</i> , <b>2008</b> , 43, 641-645	3.2	60
167	Plastic deformation characteristics of cross-equal channel angular pressing. <i>Computational Materials Science</i> , <b>2008</b> , 43, 1069-1073	3.2	26
166	Microstructure, texture and mechanical properties of the magnesium alloy AZ31 processed by ECAP. <i>International Journal of Materials Research</i> , <b>2008</b> , 99, 50-55	0.5	41

165	Finite Element Investigation of the Effect of Hardening Behavior of Alloys on Equal Channel Angular Pressing Performance. <i>Materials Science Forum</i> , <b>2008</b> , 584-586, 1021-1026	0.4	
164	Dielectric passivation effects on ZnO light emitting diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112101	3.4	35
163	Phosphorus doped ZnO light emitting diodes fabricated via pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112108	3.4	80
162	Molecular Dynamics Investigation on Microstructure and Void in Amorphous SiO <sub>2</sub> . <i>Materials Transactions</i> , <b>2008</b> , 49, 1212-1218	1.3	1
161	Yield and Densification Behavior of Rapidly Solidified Magnesium Powders. <i>Materials Transactions</i> , <b>2008</b> , 49, 967-971	1.3	4
160	Processing and Mechanical Properties of Fine Grained Magnesium by Equal Channel Angular Pressing. <i>Materials Transactions</i> , <b>2008</b> , 49, 1006-1010	1.3	17
159	Comparison in Deformation and Fracture Behavior of Magnesium during Equal Channel Angular Pressing by Experimental and Numerical Methods. <i>Materials Transactions</i> , <b>2008</b> , 49, 963-966	1.3	11
158	Thermal Stability, Microstructure and Mechanical Properties of Nanostructured Al-Ni-Mn-X (X = Cu and Fe) Alloys Hot-Extruded from Gas-Atomized Powders. <i>Materials Transactions</i> , <b>2008</b> , 49, 1223-1228	1.3	
157	Investigation of electrical and optical properties of ZnO thin films grown with O <sub>2</sub> /O <sub>3</sub> gas mixture. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 251-254	2.6	1
156	Pulsed laser deposition of high-quality ZnO films using a high temperature deposited ZnO buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 255-259	2.6	8
155	Acceptor state formation in arsenic-doped ZnO films grown using ozone. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1647-1652	1.6	2
154	Properties of post-annealed ZnO films grown with O <sub>3</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1631-1635	1.6	
153	Finite element analysis of plastic deformation behavior during high pressure torsion processing. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 201, 32-36	5.3	70
152	Strength and strain hardening of nanocrystalline materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 483-484, 127-130	5.3	18
151	Finite element analysis of rotary-die equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 289-292	5.3	22
150	Finite element analysis of the effect of the inner corner angle in equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 438-444	5.3	35
149	Analysis of T-shaped equal channel angular pressing using the finite element method. <i>Metals and Materials International</i> , <b>2008</b> , 14, 565-568	2.4	15
148	Mechanical properties of commercially pure aluminium subjected to repetitive bending and straightening process. <i>Transactions of the Indian Institute of Metals</i> , <b>2008</b> , 61, 165-167	1.2	8

147	Consolidation and Mechanical Property of Rapidly Solidified Al-20 wt% Si Alloy Powders by Continuous Equal Channel Multi-Angular Pressing. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2008</b> , 15, 31-36	0.1	3
146	Analysis of Aluminum Powder Densification by Continuous Front Extrusion-Equal Channel Angular Pressing. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2008</b> , 15, 204-209	0.1	
145	Analysis of Densification Behavior during Powder Equal Channel Angular Pressing using Critical Relative Density Model. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2008</b> , 15, 365-370	0.1	1
144	Lattice vibrational properties of ZnMgO grown by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 192110	3.4	17
143	A comment on the role of FrankRead sources in plasticity of nanomaterials. <i>Acta Materialia</i> , <b>2007</b> , 55, 6401-6407	8.4	43
142	Tensile properties of electrodeposited nanocrystalline nickel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 836-840	5.3	11
141	Kinetic dislocation model of microstructure evolution during severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 460-461, 619-623	5.3	26
140	Microstructure and corrosion properties of ultrafine-grained interstitial free steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 462, 243-247	5.3	119
139	Mechanical properties of equal channel angular pressed powder extrudates of a rapidly solidified hypereutectic Al-20 wt% Si alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 966-970	5.3	18
138	Mechanical behavior and microstructure of Cu <sub>54</sub> Zr <sub>22</sub> Ti <sub>18</sub> Ni <sub>6</sub> bulk metallic glass at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 122-125	5.3	4
137	Deformation behavior of strip-cast bulk amorphous matrix composites containing various crystalline particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 176-180	5.3	6
136	Effect of strain rate on compressive behavior of Ti <sub>45</sub> Zr <sub>16</sub> Ni <sub>9</sub> Cu <sub>10</sub> Be <sub>20</sub> bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 290-294	5.3	44
135	Consolidation of 1vol.% carbon nanotube reinforced metal matrix nanocomposites via equal channel angular pressing. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 187-188, 318-320	5.3	64
134	Die design for homogeneous plastic deformation during equal channel angular pressing. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 187-188, 46-50	5.3	43
133	Modelling microstructure evolution towards ultrafine crystallinity produced by severe plastic deformation. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 9092-9096	4.3	9
132	Modelling microstructure evolution toward ultrafine crystallinity produced by severe plastic deformation. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 1512-1516	4.3	30
131	Nano-web formation by the electrospinning at various electric fields. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 8106-8112	4.3	40
130	Achieving Both Powder Consolidation and Grain Refinement for Bulk Nanostructured Materials by Equal-Channel Angular Pressing. <i>Key Engineering Materials</i> , <b>2007</b> , 345-346, 173-176	0.4	1

129	Incorporation and drift of hydrogen at low temperatures in ZnO. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 092116	4	9
128	Biocompatibility and Mechanical Performance of Ni-Ti. <i>Materials Science Forum</i> , <b>2007</b> , 534-536, 1617-1620	4	1
127	Densification and Conolidation of Powders by Equal Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2007</b> , 534-536, 253-256	0.4	7
126	Multi-Scale Modelling Scheme for Carbon Nanotube Reinforced Metal Matrix Composites. <i>Key Engineering Materials</i> , <b>2007</b> , 345-346, 1261-1264	0.4	3
125	Deformation Mechanism Map of Nanocrystalline Metallic Materials. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 2816-2821	0.4	1
124	Processing Conditions and Mechanical Properties of Fine Grained Mg by Equal Channel Angular Pressing. <i>Key Engineering Materials</i> , <b>2007</b> , 340-341, 913-917	0.4	1
123	Biomimetic Deposition of Apatite on Zr-1Nb and Ti-6Al-4V. <i>Materials Science Forum</i> , <b>2007</b> , 534-536, 1013-1016	1	2
122	Severe plastic deformation by the cone-cone method: potential for producing ultrafine grained sheet material. <i>Revue De Metallurgie</i> , <b>2007</b> , 104, 318-322		6
121	Finite Element Analysis on the Effect of Die Corner Angle in Equal Channel Angular Pressing Process of Powders. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2007</b> , 14, 26-31	0.1	1
120	Densification Behaviour of Magnesium Powders during Cold Isostatic Pressing using the Finite Element Method. <i>Journal of Korean Powder Metallurgy Institute</i> , <b>2007</b> , 14, 362-366	0.1	2
119	Molecular dynamics study on local structure of amorphous and liquid Al <sub>2</sub> O <sub>3</sub> . <i>Metals and Materials International</i> , <b>2006</b> , 12, 167-172	2.4	11
118	Preform effect on the plastic deformation behavior of workpieces in equal channel angular pressing. <i>Scripta Materialia</i> , <b>2006</b> , 55, 159-162	5.6	28
117	Processing of Ultrafine-Grained Cu-Fe-Cr Composite by Equal Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 71-76	0.4	
116	Simulation of Equal-Channel Angular Extrusion Pressing. <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 201-208	4	1
115	Equal Channel Angular Pressing of Carbon Nanotube Reinforced Metal Matrix Nanocomposites. <i>Key Engineering Materials</i> , <b>2006</b> , 326-328, 325-328	0.4	12
114	Analytical and Numerical Modelling of Strain and Strain Rate in Equal Channel Angular Pressing (ECAP). <i>Key Engineering Materials</i> , <b>2006</b> , 306-308, 965-970	0.4	
113	Strength of Nanostructured Materials Using a Phase Mixture Model. <i>Key Engineering Materials</i> , <b>2006</b> , 306-308, 1085-1090	0.4	
112	Three Dimensional Numerical Investigation of Equal Channel Multi-Angular Pressing. <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 931-936	0.4	1

111	Corrosion and Mechanical Behaviors of Cu-35%Zn Alloy Prepared by Equal Channel Angular Pressing (ECAP). <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 823-828	0.4	3
110	Band-edge electroluminescence from N <sup>+</sup> -implanted bulk ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 102107	3.4	38
109	Equal Channel Angular Pressing of Metallic Powders for Nanostructured Materials. <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 221-226	0.4	10
108	Modelling of the Evolution of Dislocation Cell Misorientation under Severe Plastic Deformation. <i>Materials Science Forum</i> , <b>2006</b> , 503-504, 675-680	0.4	26
107	On the effect of acute angles on deformation homogeneity in equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 430, 346-349	5.3	18
106	Growth mode in strained ZnO films on Al <sub>2</sub> O <sub>3</sub> (0001) during sputtering. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 327-330	1.5	2
105	Finite Element Analysis of the Onset of Necking and the Post-Necking Behaviour during Uniaxial Tensile Testing. <i>Materials Transactions</i> , <b>2005</b> , 46, 2159-2163	1.3	17
104	Mechanical Modeling of Al-Mg Alloy Open-Cell Foams. <i>Materials Transactions</i> , <b>2005</b> , 46, 622-625	1.3	9
103	Microstructural modelling of equal channel angular pressing for producing ultrafine grained materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 285-289	5.3	41
102	Enhanced plasticity in a bulk amorphous matrix composite: macroscopic and microscopic viewpoint studies. <i>Acta Materialia</i> , <b>2005</b> , 53, 129-139	8.4	95
101	Phase mixture modeling of the strain rate dependent mechanical behavior of nanostructured materials. <i>Acta Materialia</i> , <b>2005</b> , 53, 765-772	8.4	100
100	Effect of Equal Channel Angular Pressing on Microstructure and Mechanical Properties of IF Steel. <i>Advanced Engineering Materials</i> , <b>2005</b> , 7, 43-46	3.5	60
99	Process Modeling of Equal Channel Angular Pressing <b>2005</b> , 239-244		
98	Modeling of Deformation Behavior and Texture Development in Aluminium under Equal Channel Angular Pressing <b>2005</b> , 233-238		1
97	Superplastic Behavior of Deformation Processed Cu-Ag Nanocomposites <b>2005</b> , 728-733		
96	Deformation Mechanisms of Nanostructured Metallic Materials. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2005</b> , 24-25, 709-714	0.2	
95	Grain Refinement and Texture Evolution in AZ31 Alloy during ECAP Process and Their Effects on Mechanical Properties. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 549-554	0.4	5
94	Mechanical Modelling of Carbon Nanotube Reinforced Metal Matrix Composites. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2005</b> , 24-25, 383-386	0.2	1



93	Non-equilibrium microstructure and thermal stability of plasma-sprayed AlBi coatings. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2038-2045	2.5	8
92	Mechanical Properties of a Cu55Zr30Ti10Pd5Bulk Amorphous Alloy. <i>Korean Journal of Materials Research</i> , <b>2005</b> , 15, 281-284	0.2	
91	(Bi,La)4Ti3O12 (BLT) thin films grown from nanocrystalline perovskite nuclei for ferroelectric memory devices. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4118-4120	3.4	9
90	Influence of arsenic during indium deposition on the formation of the wetting layers of InAs quantum dots grown by migration enhanced epitaxy. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 4122-4125	2.5	16
89	Creep Analysis of Cr-Mo Steels Using a Dislocation Based Constitutive Modelling. <i>Materials Science Forum</i> , <b>2004</b> , 449-452, 117-120	0.4	1
88	Influence of nanoprecipitation on strength of Cu60Zr30Ti10 glass containing H-ZrC particle reinforcements. <i>Scripta Materialia</i> , <b>2004</b> , 51, 577-581	5.6	44
87	Fictive stress model based finite element analysis for bulk metallic glasses at an elevated temperature. <i>Metals and Materials International</i> , <b>2004</b> , 10, 461-466	2.4	5
86	Deformation-induced nanocrystallization and its influence on work hardening in a bulk amorphous matrix composite. <i>Acta Materialia</i> , <b>2004</b> , 52, 1525-1533	8.4	82
85	Finite element analysis of compressive deformation of bulk metallic glasses. <i>Acta Materialia</i> , <b>2004</b> , 52, 3813-3823	8.4	21
84	Process Modelling of Equal Channel Angular Pressing for Ultrafine Grained Materials. <i>Materials Transactions</i> , <b>2004</b> , 45, 2172-2176	1.3	12
83	Microforming of Bulk Metallic Glasses: Constitutive Modelling and Applications. <i>Materials Transactions</i> , <b>2004</b> , 45, 1228-1232	1.3	10
82	Influence of In-Situ Nanoprecipitation on Constant Load Deformation in the Glass Transition Region of a Cu60Zr30Ti10 Bulk Metallic Glass. <i>Materials Transactions</i> , <b>2004</b> , 45, 2383-2388	1.3	
81	Prediction of the Forming Limit of Porous Metals Using the Finite Element Method. <i>Materials Transactions</i> , <b>2004</b> , 45, 1829-1832	1.3	6
80	Modeling of deformation behavior of copper under equal channel angular pressing. <i>International Journal of Materials Research</i> , <b>2003</b> , 94, 754-760		53
79	Effect of H-ZrC Dispersoids and Nanoprecipitates on Mechanical Properties of CuZrTi Bulk Glasses. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2003</b> , 15-16, 161-166	0.2	3
78	Isothermal nanocrystallisation behaviour of melt spun Al86Ni9 Mm5 (Mmmischmetal)amorphous alloy. <i>Materials Science and Technology</i> , <b>2003</b> , 19, 966-972	1.5	10
77	Strengthening mechanisms of Zr-based devitrified amorphous alloy nanocomposites. <i>Scripta Materialia</i> , <b>2003</b> , 48, 43-49	5.6	17
76	Deposition of CeO2 and NiO buffer layers for YBCO coated conductors on biaxially textured Ni substrates by a MOCVD technique. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 386, 327-332	1.3	8

75	Dislocation density-based modeling of deformation behavior of aluminium under equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 351, 86-97	5.3	179
74	Deformation behavior of copper during a high pressure torsion process. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 142, 334-337	5.3	42
73	Densification modelling for nanocrystalline metallic powders. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 140, 401-406	5.3	14
72	Formation of 28 nm size pre-precipitates of $\epsilon$ -Fe phase in a HfTiAl glassy alloy. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 359, 198-201	5.7	14
71	Texture and surface analysis of NiO buffer deposited on biaxially textured Ni tapes by a MOCVD method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 2539-2542	1.8	7
70	Strength and Ductility of Ultrafine Grained Copper: Modelling and Experiment. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2003</b> , 17, 29-36	0.2	3
69	Strengthening Mechanism of Zr-Based Devitrified Amorphous Nanocomposites with Quasicrystalline Phases. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2003</b> , 15-16, 205-208	0.2	
68	Finite Element Analysis of Equal Channel Angular Pressing Based on a Dislocation Density and Cell Size Evolution Model. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2003</b> , 15-16, 231-234	0.2	
67	Equal Channel Angular Pressing of Metallic Powders. <i>Materials Science Forum</i> , <b>2003</b> , 437-438, 89-92	0.4	9
66	Modelling Mechanical Properties of Nanocrystalline Copper. <i>Materials Science Forum</i> , <b>2003</b> , 437-438, 351-354	0.4	
65	Modeling of texture evolution in copper under equal channel angular pressing. <i>International Journal of Materials Research</i> , <b>2003</b> , 94, 1189-1198		40
64	Analysis of the Tensile Deformation Behaviour of Nanocrystalline Metals - A Multi-Scale Approach. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2003</b> , 15-16, 227-230	0.2	
63	Phase Mixture Models for Metallic Materials with Submicrometer Grain Size. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 791, 1		1
62	Modeling of aluminum via filling by forcefill. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5812-5815	2.5	10
61	Plastic flow and deformation homogeneity of 6061 Al during equal channel angular pressing. <i>Scripta Materialia</i> , <b>2002</b> , 46, 131-136	5.6	54
60	Finite element analysis of deformation behaviour of metals during equal channel multi-angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 328, 317-323	5.3	104
59	Effect of the gap distance on the cooling behavior and the microstructure of indirect squeeze cast and gravity die cast 5083 wrought Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 338, 182-190	5.3	49
58	Deformation processing and mechanical properties of Cu <sub>1-x</sub> Ag <sub>x</sub> (X=Ag or Co) microcomposites. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 130-131, 272-277	5.3	30

57	Finite element analysis of equal channel angular pressing of strain rate sensitive metals. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 130-131, 497-503	5.3	63
56	Constitutive Model for Cold Compaction of Ceramic Powder. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2137-2138	3.8	10
55	Densification mechanisms during hot isostatic pressing of stainless steel powder compacts. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 123, 319-322	5.3	15
54	Experimental and numerical analyses of indentation in single piece and split type specimens. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 29-34	4.3	1
53	Annealing behavior of retained austenite in low carbon steel: Real time synchrotron X-ray scattering study. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 353-355		7
52	Evaluation of Strain Rate During Equal-channel Angular Pressing. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 172-179	2.5	63
51	Nanostructure Formation in Copper Subjected to High Pressure Torsion. <i>Defect and Diffusion Forum</i> , <b>2002</b> , 208-209, 229-232	0.7	15
50	Microstructural Evolution and Mechanical Flow of 6061 Al during Equal Channel Angular Pressing. <i>Materials Science Forum</i> , <b>2002</b> , 386-388, 577-582	0.4	
49	Modelling of Equal Channel Angular Pressing for Ultrafine-Grained Metals. <i>Materials Science Forum</i> , <b>2002</b> , 386-388, 421-426	0.4	4
48	Calculation of Deformation Behavior and Texture Evolution during Equal Channel Angular Pressing of IF Steel Using Dislocation Based Modeling of Strain Hardening. <i>Materials Science Forum</i> , <b>2002</b> , 408-412, 697-702	0.4	39
47	Finite element analysis of torsional deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 299, 305-308	5.3	15
46	Hardening behaviour of partially crystallised amorphous Al alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 327-331	5.3	34
45	Finite element analysis of equal channel angular pressing using a round corner die. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 315, 122-128	5.3	136
44	Constitutive modelling of strength and plasticity of nanocrystalline metallic materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 316, 195-199	5.3	51
43	On the rule of mixtures for predicting the mechanical properties of composites with homogeneously distributed soft and hard particles. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 112, 109-113	5.3	103
42	Heavily drawn CuBeAg and CuBeCr microcomposites. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 113, 610-616	5.3	45
41	Plastic deformation analysis of metals during equal channel angular pressing. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 113, 622-626	5.3	103
40	Comparison of microstructure and strength in wire-drawn and rolled Cu-9 Fe-1.2 Ag filamentary microcomposite. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 5881-5884	4.3	6

39	A constitutive model for densification of metal compacts: the case of copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 307, 67-73	5.3	29
38	Finite element analysis of high pressure torsion processing. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 113, 617-621	5.3	60
37	Thermo-mechanical processing and properties of Cu <sub>9</sub> Fe <sub>1.2</sub> Co microcomposite wires. <i>Scripta Materialia</i> , <b>2001</b> , 45, 1295-1300	5.6	23
36	Ductility of ultrafine grained copper. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4115-4117	3.4	55
35	Effects of strain hardenability and strain-rate sensitivity on the plastic flow and deformation homogeneity during equal channel angular pressing. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 856-864	2.5	79
34	On the rule of mixtures for the hardness of particle reinforced composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 289, 30-33	5.3	213
33	On the die corner gap formation in equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 291, 86-90	5.3	225
32	A phase mixture model of a particle reinforced composite with fine microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 276, 175-185	5.3	48
31	Plastic deformation behaviour of fine-grained materials. <i>Acta Materialia</i> , <b>2000</b> , 48, 493-504	8.4	272
30	Strength and ductility of heavily drawn bundled Cu-Nb filamentary microcomposite wires with various Nb contents. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2000</b> , 31, 2457-2462	2.3	8
29	A Model on the Strengthening and Embrittlement of Devitrified Nanocomposites. <i>Key Engineering Materials</i> , <b>2000</b> , 183-187, 1255-1260	0.4	
28	Strength and Fracture of Cu-Based Filamentary Nanocomposites. <i>Key Engineering Materials</i> , <b>2000</b> , 183-187, 1207-1212	0.4	3
27	A model of the ductile-brittle transition of partially crystallized amorphous Al <sub>80</sub> Ni <sub>20</sub> alloys. <i>Acta Materialia</i> , <b>1999</b> , 47, 2059-2066	8.4	60
26	Power-law creep model for densification of powder compacts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 271, 424-429	5.3	11
25	Microstructural behavior of rapidly solidified and extruded Al-14wt%Ni-14wt%Mm (Mm, misch metal) alloy powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 271, 469-476	5.3	39
24	Effect of die geometry on the microstructure of indirect squeeze cast and gravity die cast 5083 wrought Al alloy and numerical analysis of the cooling behavior. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 96, 188-197	5.3	26
23	On the Modelling of Ultra-Fine Grained Materials. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>1999</b> , 2-6, 437-442	0.2	
22	Mechanical properties of partially crystallized aluminum based amorphous alloys. <i>Scripta Materialia</i> , <b>1999</b> , 11, 241-247		45

21	The effects of grain size and porosity on the elastic modulus of nanocrystalline materials. <i>Scripta Materialia</i> , <b>1999</b> , 11, 361-367		159
20	A composite model for mechanical properties of nanocrystalline materials. <i>Scripta Materialia</i> , <b>1998</b> , 39, 1057-1061	5.6	64
19	Yield and compaction behavior of rapidly solidified AlBi alloy powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1998</b> , 251, 100-105	5.3	29
18	Plastic deformation of porous metal with an initial inhomogeneous density distribution. <i>Journal of Materials Processing Technology</i> , <b>1998</b> , 74, 213-217	5.3	12
17	Thermodynamic prediction of glass forming range in Al-Mg-REM ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>1998</b> , 22, 221-230	1.9	5
16	Numerical Investigation of Mechanical Behaviour of Nanocrystalline Copper. <i>Powder Metallurgy</i> , <b>1998</b> , 41, 217-220	1.9	36
15	Analysis of Deformation of Porous Metals. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 521, 33		
14	Elastoplastic Finite Element Analysis for Porous Metals. <i>Powder Metallurgy</i> , <b>1994</b> , 37, 140-146	1.9	32
13	Analysis of Coefficient of Friction in Compression of Porous Metal Rings. <i>Powder Metallurgy</i> , <b>1994</b> , 37, 259-264	1.9	12
12	Densification of sintered porous metal under hydrostatic pressure. <i>Scripta Metallurgica Et Materialia</i> , <b>1993</b> , 29, 1211-1216		10
11	Plastic Yield Behaviour of Porous Metals. <i>Powder Metallurgy</i> , <b>1992</b> , 35, 275-280	1.9	95
10	Mass-Transfer Effects on the Anodic Behavior of Porous Fe and Co Sintered Electrodes in Aqueous Ammoniacal Solution. <i>Journal of the Electrochemical Society</i> , <b>1991</b> , 138, 1599-1607	3.9	4
9	Optimization of the pulsed arc welding parameters for wire arc additive manufacturing in austenitic steel applications. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1
8	Effects of constrained groove pressing on mechanical properties of a TWIP steel. <i>Materials Science and Technology</i> , 1-11	1.5	3
7	Obtaining a Wide-Strain-Range True Stress-Strain Curve Using the Measurement-In-Neck-Section Method. <i>Experimental Mechanics</i> , 1	2.6	3
6	Effects of Laser Power on the Microstructure Evolution and Mechanical Properties of Ti <sub>6</sub> Al <sub>4</sub> V Alloy Manufactured by Direct Energy Deposition. <i>Metals and Materials International</i> , 1	2.4	4
5	Cold Spray and Laser-Assisted Cold Spray of CrMnCoFeNi High Entropy Alloy Using Nitrogen as the Propelling Gas. <i>Journal of Thermal Spray Technology</i> , 1	2.5	2
4	Synergistic Effects of MWCNTs and High-Pressure Torsion-Induced Grain Refinement on Microhardness, Tribological Properties, and Corrosion Behavior of Cu and Cu/MWCNT Nanocomposites. <i>Metals and Materials International</i> , 1	2.4	0



3	The influence of laser powder-bed fusion microstructures on the corrosion behavior of CuSn alloy. <i>Journal of Materials Science</i> ,1	4-3	0
2	Fe <sub>55</sub> Co <sub>17.5</sub> Ni <sub>10</sub> Cr <sub>12.5</sub> Mo <sub>5</sub> High-Entropy Alloy with Outstanding Cryogenic Mechanical Properties Driven by Deformation-Induced Phase Transformation Behavior. <i>Metals and Materials International</i> ,1	2-4	1
1	Mechanical and magnetic properties of soft magnetic FeNi permalloy produced by directed energy deposition processes. <i>Journal of Materials Science</i> ,1	4-3	0