

# Hamed Mirzadeh

## List of Publications by Year in descending order

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199  
papers

7,892  
citations

31902

53  
h-index

66788

78  
g-index

200  
all docs

200  
docs citations

200  
times ranked

3112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic Effects of Cerium-Based Rare Earth Addition and Hot Deformation on the Microstructure and Mechanical Properties of Mg-0.5Zn-0.5Zr Magnesium Alloy. <i>Metals and Materials International</i> , 2022, 28, 1105-1113.	1.8	11
2	Amorphization, mechano-crystallization, and crystallization kinetics of mechanically alloyed AlFeCuZnTi high-entropy alloys. <i>Materials Letters</i> , 2022, 307, 131098.	1.3	19
3	Microstructure and Mechanical Properties of Dual-Phase Steels by Combining Adjusted Initial Microstructures and Severe Plastic Deformation. <i>Steel Research International</i> , 2022, 93, 2100596.	1.0	1
4	Superplasticity of high-entropy alloys: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	24
5	Microstructures and mechanical performance of Mg-4Si-6Ni in situ composite after extrusion process. <i>Materials Science and Technology</i> , 2022, 38, 169-180.	0.8	5
6	A review of hot deformation behavior and constitutive models to predict flow stress of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163964.	2.8	130
7	Improvement of mechanical properties of in situ Mg-Si composites via Cu addition and hot working. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164176.	2.8	16
8	Microstructure, mechanical properties, and pitting corrosion resistance of SAF 2205 duplex stainless steel after friction hydro-pillar processing. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 2047-2054.	1.5	2
9	Tailoring the mechanical properties of hypereutectic in situ Al-Mg <sub>2</sub> Si composites via hybrid TiB <sub>2</sub> reinforcement and hot extrusion. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	11
10	Detailed Hall-Petch Analysis of Cold Rolled and Annealed Duplex 2205 Stainless Steel. <i>Steel Research International</i> , 2022, 93, .	1.0	8
11	Mechanical properties of as-cast and wrought Mg-5Ni-xAl magnesium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142996.	2.6	8
12	Superplasticity of bulk metallic glasses (BMGs): A review. <i>Journal of Non-Crystalline Solids</i> , 2022, 583, 121503.	1.5	12
13	Additive manufacturing – A review of hot deformation behavior and constitutive modeling of flow stress. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100992.	5.6	88
14	Cold unidirectional/cross-rolling of austenitic stainless steels: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	1.9	8
15	Tailoring the tensile properties of AZ91 magnesium alloy via grain refinement. <i>Materials Science and Technology</i> , 2022, 38, 1434-1438.	0.8	5
16	Effect of grain size on the mechanical properties and bio-corrosion resistance of pure magnesium. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3100-3109.	2.6	37
17	Effect of Variation of Martensite with a Constant Carbon Content on Mechanical Behavior and Sliding Wear of Dual Phase Steels. <i>Tribology Letters</i> , 2022, 70, .	1.2	4
18	Enhanced mechanical properties of as-cast rare earth bearing magnesium alloy via elevated-temperature homogenization. <i>Materials Today Communications</i> , 2022, 31, 103821.	0.9	8

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19	Heterostructured stainless steel: Properties, current trends, and future perspectives. <i>Materials Science and Engineering Reports</i> , 2022, 150, 100691.	14.8	65
20	Thermal Mechanisms of Grain Refinement in Steels: A Review. <i>Metals and Materials International</i> , 2021, 27, 2078.	1.8	96
21	Finite element analysis of plastic deformation in shear punch test. <i>Materials Letters</i> , 2021, 284, 128953.	1.3	10
22	Effects of spheroidization heat treatment and intercritical annealing on mechanical properties and corrosion resistance of medium carbon dual phase steel. <i>Materials Chemistry and Physics</i> , 2021, 257, 123721.	2.0	14
23	Delta processing effects on the creep behavior of a typical Nb-bearing nickel-based superalloy. <i>Vacuum</i> , 2021, 184, 109913.	1.6	7
24	Enhanced mechanical properties of AZ91 magnesium alloy by inoculation and hot deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140667.	2.6	51
25	A dislocation assisted self-consistent constitutive model for the high-temperature deformation of particulate metal-matrix composite. <i>Philosophical Magazine</i> , 2021, 101, 276-305.	0.7	6
26	Effect of Gd on Dynamic Recrystallization Behavior of Magnesium During Hot Compression. <i>Metals and Materials International</i> , 2021, 27, 843-850.	1.8	17
27	Enhanced mechanical properties of dual phase steel via cross rolling and intercritical annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140778.	2.6	16
28	Recent advances in the kinetics of normal/abnormal grain growth: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	58
29	Processing, microstructure adjustments, and mechanical properties of dual phase steels: A review. <i>Materials Science and Technology</i> , 2021, 37, 561-591.	0.8	12
30	Enhanced tensile properties of as-cast Mg-10Al magnesium alloy via strontium addition and hot working. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	12
31	Tempering kinetics and corrosion resistance of quenched and tempered AISI 4130 medium carbon steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1808-1812.	0.8	7
32	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg-Al-Mg <sub>2</sub> Si composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141574.	2.6	26
33	High strain rate superplasticity via friction stir processing (FSP): A review. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141499.	2.6	77
34	Synergistic effects of alloying, homogenization, and hot extrusion on the mechanical properties of as-cast Mg-Al-Ca magnesium alloys. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	6
35	Enhanced mechanical properties of as-cast Mg-Al-Ca magnesium alloys by friction stir processing. <i>Materials Letters</i> , 2021, 296, 129880.	1.3	28
36	Mechanical response of a metastable austenitic stainless steel under different deformation modes. <i>Materials Science and Technology</i> , 2021, 37, 103-109.	0.8	4

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37	Enhanced mechanical properties of Mg-Ni-RE alloys via hot extrusion. <i>Materials Science and Technology</i> , 2021, 37, 1285-1290.	0.8	4
38	Effect of Zn addition on the microstructure and mechanical properties of Mg-0.5Ca-0.5RE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152380.	2.8	49
39	Processing Route Effects on the Mechanical and Corrosion Properties of Dual Phase Steel. <i>Metals and Materials International</i> , 2020, 26, 882-890.	1.8	24
40	Revisiting the Diffusion of Niobium in an As-Cast Nickel-Based Superalloy During Annealing at Elevated Temperatures. <i>Metals and Materials International</i> , 2020, 26, 326-332.	1.8	25
41	Unraveling the Effect of Martensite Volume Fraction on the Mechanical and Corrosion Properties of Low-Carbon Dual-Phase Steel. <i>Steel Research International</i> , 2020, 91, 1900327.	1.0	13
42	Estimation of homogenisation time for superalloys based on a new diffusional model. <i>Materials Science and Technology</i> , 2020, 36, 380-384.	0.8	7
43	Effects of tempering on the mechanical and corrosion properties of dual phase steel. <i>Materials Today Communications</i> , 2020, 22, 100745.	0.9	19
44	Unexpected formation of delta ( $\delta$ ) phase in as-cast niobium-bearing superalloy at solution annealing temperatures. <i>Materials Letters</i> , 2020, 261, 127008.	1.3	16
45	Tailoring the mechanical properties of Mg-Zn magnesium alloy by calcium addition and hot extrusion process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138929.	2.6	84
46	Effect of grain size on the corrosion resistance of low carbon steel. <i>Materials Research Express</i> , 2020, 7, 016522.	0.8	39
47	Deformation-induced martensite in austenitic stainless steels: A review. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	1.9	127
48	Transformation-induced plasticity (TRIP) in advanced steels: A review. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 140023.	2.6	307
49	Mechanical Behavior of As-Cast and Extruded Mg-Si-Ni-Ca Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 7728-7735.	1.2	14
50	Improved properties of dual-phase steel via pre-intercritical annealing treatment and thermal cycling. <i>Materials Science and Technology</i> , 2020, 36, 1663-1670.	0.8	5
51	Mechanical alloying and consolidation of copper-iron-silicon carbide nanocomposites. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 1700-1704.	0.5	2
52	Unraveling the Effect of Deformation Temperature on the Mechanical Behavior and Transformation-Induced Plasticity of the SUS304L Stainless Steel. <i>Steel Research International</i> , 2020, 91, 2000114.	1.0	22
53	Precipitation kinetics of $\gamma'$ phase and its mechanism in a Nb-bearing nickel-based superalloy during aging. <i>Vacuum</i> , 2020, 178, 109456.	1.6	23
54	Evolutions of mechanical properties of AISI 304L stainless steel under shear loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139667.	2.6	14

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55	Effects of hot rolling and homogenisation treatment on low alloy steel ingot. <i>Materials Science and Technology</i> , 2020, 36, 835-842.	0.8	7
56	Crystallization kinetics of mechanically alloyed amorphous Fe-Ti alloys during annealing. <i>Advanced Powder Technology</i> , 2020, 31, 3215-3221.	2.0	10
57	A review of recent progress in mechanical and corrosion properties of dual phase steels. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	1.9	44
58	Enhanced mechanical properties of as-cast AZ91 magnesium alloy by combined RE-Sr addition and hot extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139817.	2.6	60
59	Hot deformation behavior and flow stress modeling of Ti-6Al-4V alloy produced via electron beam melting additive manufacturing technology in single $\beta$ -phase field. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139822.	2.6	55
60	Elucidating the effects of microsegregation on the precipitation phenomena in as-cast Nb-bearing superalloy. <i>Materials Letters</i> , 2020, 266, 127481.	1.3	9
61	Tempering of Cold-Rolled Martensite in Mild Steel and Elucidating the Effects of Alloying Elements. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 858-865.	1.2	6
62	Unraveling the effects of surface preparation on the pitting corrosion resistance of austenitic stainless steel. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	1.9	10
63	Phase Transformation Kinetics During Annealing of Cold-Rolled AISI 309Si Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1955-1959.	1.1	9
64	Thermodynamics basis of saturation of martensite content during reversion annealing of cold rolled metastable austenitic steel. <i>Vacuum</i> , 2020, 174, 109220.	1.6	12
65	Significance of Martensite Reversion and Austenite Stability to the Mechanical Properties and Transformation-Induced Plasticity Effect of Austenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3233-3242.	1.2	29
66	Two-step annealing treatment for grain refinement of cold-worked AISI 316L stainless steel. <i>International Journal of Materials Research</i> , 2020, 111, 676-680.	0.1	2
67	Revealing the As-Cast and Homogenized Microstructures of Niobium-Bearing Nickel-Based Superalloy. <i>International Journal of Metalcasting</i> , 2019, 13, 320-330.	1.5	12
68	Developing constitutive equations of flow stress for hot deformation of AZ31 magnesium alloy under compression, torsion, and tension. <i>International Journal of Material Forming</i> , 2019, 12, 643-648.	0.9	16
69	Interdiffusion coefficients of alloying elements in a typical Ni-based superalloy. <i>Vacuum</i> , 2019, 169, 108875.	1.6	26
70	Dependency of Natural Aging on the Ferrite Grain Size in Dual-Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4961-4964.	1.1	2
71	Unraveling the effects of Zn addition and hot extrusion process on the microstructure and mechanical properties of as-cast Mg-2Al magnesium alloy. <i>Vacuum</i> , 2019, 167, 214-222.	1.6	62
72	Mechanical properties of Mg-Al-Mn magnesium alloys with low Al content in the as-cast and extruded conditions. <i>Materials Research Express</i> , 2019, 6, 106521.	0.8	18

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73	Effects of Grain Size on Mechanical Properties and Workâ€Hardening Behavior of AISI 304 Austenitic Stainless Steel. <i>Steel Research International</i> , 2019, 90, 1900153.	1.0	101
74	Evaluating the Effect of Hotâ€Rolling Reduction on the Mechanical Properties of In Situ Formed Aluminumâ€Magnesiumâ€Silicon (Alâ€Mg <sub>2</sub> /Si) Composites. <i>Advanced Engineering Materials</i> , 2019, 21, 1900609.	1.6	11
75	Aging kinetics and mechanical properties of copper-bearing low-carbon HSLA-100 microalloyed steel. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 1409-1418.	1.9	20
76	Constitutive modeling of flow stress during hot deformation of Snâ€Alâ€Znâ€Cuâ€Mg multi-principal-element alloy. <i>Vacuum</i> , 2019, 170, 108970.	1.6	24
77	Phase transformation mechanism and kinetics during step quenching of st37 low carbon steel. <i>Materials Research Express</i> , 2019, 6, 1165f2.	0.8	10
78	Grain refinement and enhanced mechanical properties of ZK20 magnesium alloy via hot extrusion and mischmetal addition. <i>Materials Research Express</i> , 2019, 6, 116522.	0.8	14
79	Effect of Intercritical Annealing Conditions on Grain Growth Kinetics of Dual Phase Steel. <i>Metals and Materials International</i> , 2019, 25, 1039-1046.	1.8	30
80	Ferrite recrystallisation and intercritical annealing of cold-rolled low alloy medium carbon steel. <i>Materials Science and Technology</i> , 2019, 35, 1932-1941.	0.8	13
81	Improved Mechanical Properties of Structural Steel via Developing Bimodal Grain Size Distribution and Intercritical Heat Treatment. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5409-5414.	1.2	9
82	Numerical and analytical solutions for determination of interdiffusion coefficients in superalloys during homogenization. <i>Materials Today Communications</i> , 2019, 21, 100631.	0.9	4
83	Amorphization and mechano-crystallization of high-energy ball milled Fe Ti alloys. <i>Journal of Non-Crystalline Solids</i> , 2019, 520, 119466.	1.5	14
84	Toward understanding the origins of poor ductility in a metal-matrix composite processed by accumulative roll bonding (ARB). <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 958-966.	1.9	9
85	Tailoring the microstructure and mechanical properties of AISI 316L austenitic stainless steel via cold rolling and reversion annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 90-96.	2.6	127
86	Texture development during hot deformation of Al/Mg alloy reinforced with ceramic particles. <i>Journal of Alloys and Compounds</i> , 2019, 798, 267-272.	2.8	7
87	Effect of Si and Ni on microstructure and mechanical properties of in-situ magnesium-based composites in the as-cast and extruded conditions. <i>Materials Chemistry and Physics</i> , 2019, 232, 305-310.	2.0	25
88	Micro-mechanisms and precipitation kinetics of delta ( $\delta$ ) phase in Inconel 718 superalloy during aging. <i>Journal of Alloys and Compounds</i> , 2019, 795, 207-212.	2.8	65
89	Improved mechanical properties of mild steel via combination of deformation, intercritical annealing, and quench aging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 268-271.	2.6	24
90	Homogenization kinetics of a typical nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 793, 277-282.	2.8	35

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91	Fine tuning the mechanical properties of dual phase steel via thermomechanical processing of cold rolling and intercritical annealing. <i>Materials Chemistry and Physics</i> , 2019, 230, 1-8.	2.0	66
92	Effect of Intercritical Annealing Time at Pearlite Dissolution Finish Temperature (Ac1f) on Mechanical Properties of Low-Carbon Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2178-2183.	1.2	8
93	A new intermetallic phase formation in Mg Si Ni magnesium-based in-situ formed alloys. <i>Vacuum</i> , 2019, 164, 349-354.	1.6	27
94	Constitutive analysis of wrought Mg-Gd magnesium alloys during hot compression at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1200-1206.	2.8	72
95	Synergistic effects of holding time at intercritical annealing temperature and initial microstructure on the mechanical properties of dual phase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 750, 125-131.	2.6	49
96	Static recrystallization kinetics of ferrite in cold-deformed medium carbon steel. <i>Materials Research Express</i> , 2019, 6, 1265g9.	0.8	7
97	Microstructure tailoring for property improvements of DP steel via cyclic intercritical annealing. <i>Materials Research Express</i> , 2019, 6, 126513.	0.8	6
98	Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mg <sub>2</sub> Al <sub>2</sub> Ca/Mg <sub>2</sub> Ca in-situ composite by hot extrusion. <i>Materials Characterization</i> , 2019, 147, 155-164.	1.9	41
99	Tempering of deformed and as-quenched martensite in structural steel. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2019, 55, 95-99.	0.3	10
100	Spheroidization heat treatment and intercritical annealing of low carbon steel. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2019, 55, 405-411.	0.3	11
101	The Effects of Grain Refinement and Rare Earth Intermetallics on Mechanical Properties of As-Cast and Wrought Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1327-1333.	1.2	57
102	Mechanical properties of a hot deformed Al-Mg <sub>2</sub> Si in-situ composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 10-17.	2.6	65
103	Enhanced Ductility of a Fine-Grained Mg-Gd-Al-Zn Magnesium Alloy by Hot Extrusion. <i>Advanced Engineering Materials</i> , 2018, 20, 1701171.	1.6	70
104	Refinement of Banded Structure via Thermal Cycling and Its Effects on Mechanical Properties of Dual Phase Steel. <i>Steel Research International</i> , 2018, 89, 1700531.	1.0	28
105	Microstructural Evolutions During Reversion Annealing of Cold-Rolled AISI 316 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2248-2256.	1.1	68
106	Effect of Intercritical Annealing on Mechanical Properties and Work-Hardening Response of High Formability Dual Phase Steel. <i>Steel Research International</i> , 2018, 89, 1700412.	1.0	36
107	Dynamic deformation response of Al-Mg and Al-Mg/B <sub>4</sub> C composite at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 645-654.	2.6	15
108	Enhancement of work-hardening behavior of dual phase steel by heat treatment. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018, 49, 1081-1086.	0.5	12

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109	Effect of microstructural refinement and intercritical annealing time on mechanical properties of high-formability dual phase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 22-26.	2.6	83
110	Modeling the kinetics of deformation-induced martensitic transformation in AISI 316 metastable austenitic stainless steel. <i>Vacuum</i> , 2018, 157, 243-248.	1.6	58
111	Solidification behavior and Laves phase dissolution during homogenization heat treatment of Inconel 718 superalloy. <i>Vacuum</i> , 2018, 154, 235-243.	1.6	94
112	Microstructural investigation of Al-Mg/B4C composite deformed at elevated temperature. <i>Journal of Alloys and Compounds</i> , 2018, 763, 643-651.	2.8	17
113	Fine-grained dual phase steel via intercritical annealing of cold-rolled martensite. <i>Vacuum</i> , 2018, 155, 147-152.	1.6	56
114	Processing of fine grained AISI 304L austenitic stainless steel by cold rolling and high-temperature short-term annealing. <i>Materials Research Express</i> , 2018, 5, 056529.	0.8	19
115	Controlling the mechanical properties of carbon steel by thermomechanical treatment. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
116	Enhancement of mechanical properties of low carbon dual phase steel via natural aging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 178-183.	2.6	39
117	Mechanical properties and fracture behavior of intercritically annealed AISI 4130 chromoly steel. <i>Materials Research Express</i> , 2018, 5, 066548.	0.8	10
118	The effects of primary thermo-mechanical processing routes and intercritical annealing on the mechanical properties of st37 low carbon steel. <i>Metallic Materials</i> , 2018, 56, 297-303.	0.2	1
119	Effect of Drawing Strain on Development of Martensitic Transformation and Mechanical Properties in AISI 304L Stainless Steel Wire. <i>Steel Research International</i> , 2017, 88, 1600423.	1.0	8
120	Modification of Rule of Mixtures for Estimation of the Mechanical Properties of Dual-Phase Steels. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2683-2688.	1.2	51
121	Synergistic effect of Al and Gd on enhancement of mechanical properties of magnesium alloys. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 228-235.	1.8	56
122	Processing of Cu-Fe and Cu-Fe-SiC nanocomposites by mechanical alloying. <i>Advanced Powder Technology</i> , 2017, 28, 1882-1887.	2.0	43
123	Tailoring the Microstructure and Mechanical Properties of Dual Phase Steel Based on the Initial Microstructure. <i>Steel Research International</i> , 2017, 88, 1600385.	1.0	33
124	Elucidating the effect of intermetallic compounds on the behavior of Mg-Gd-Al-Zn magnesium alloys at elevated temperatures. <i>Journal of Materials Research</i> , 2017, 32, 4186-4195.	1.2	59
125	Unraveling the Initial Microstructure Effects on Mechanical Properties and Work-Hardening Capacity of Dual-Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4565-4573.	1.1	73
126	Enhanced mechanical properties of dual-phase steel by repetitive intercritical annealing. <i>Canadian Metallurgical Quarterly</i> , 2017, 56, 459-463.	0.4	31



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127	Toward unraveling the effects of intermetallic compounds on the microstructure and mechanical properties of Mg-Gd-Al-Zn magnesium alloys in the as-cast, homogenized, and extruded conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 39-46.	2.6	96
128	Toward Unraveling the Importance of Deformed Microstructure before TRIP Heat Treatment in Transformation-Induced Plasticity Steels. <i>Steel Research International</i> , 2017, 88, 1600275.	1.0	6
129	Physically based constitutive description of OFHC copper at hot working conditions. <i>Metallic Materials</i> , 2016, 53, 105-111.	0.2	7
130	Deformation of Pure Aluminum Along the Groove Path of ECAP-Conform Process. <i>Advanced Engineering Materials</i> , 2016, 18, 319-323.	1.6	11
131	Modification of As-cast Al-Mg/B4C composite by addition of Zr. <i>Journal of Alloys and Compounds</i> , 2016, 685, 70-77.	2.8	18
132	Prevention of surface hot shortness, development of banded structure, and mechanical properties of hot rolled Cu-bearing steel. <i>Engineering Failure Analysis</i> , 2016, 68, 132-137.	1.8	23
133	Elucidating the Effect of Alloying Elements on the Behavior of Austenitic Stainless Steels at Elevated Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5698-5703.	1.1	42
134	Physically-based constitutive modeling of NiTi intermetallic compound during hot deformation. <i>Canadian Metallurgical Quarterly</i> , 2016, 55, 387-390.	0.4	4
135	Microstructural Evolutions During Annealing of Plastically Deformed AISI 304 Austenitic Stainless Steel: Martensite Reversion, Grain Refinement, Recrystallization, and Grain Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4210-4216.	1.1	89
136	A comprehensive approach for quantitative characterization and modeling of composite microstructures. <i>Applied Mathematical Modelling</i> , 2016, 40, 8826-8831.	2.2	6
137	Toward unraveling the mechanisms responsible for the formation of ultrafine grained microstructure during tempering of cold rolled martensite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 252-255.	2.6	18
138	Unraveling the Effect of Homogenization Treatment on Decomposition of Austenite and Mechanical Properties of Low-Alloyed TRIP Steel. <i>Steel Research International</i> , 2016, 87, 820-823.	1.0	13
139	A Simple Constitutive Model for Prediction of Single-Peak Flow Curves Under Hot Working Conditions. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016, 138, .	0.8	20
140	Unraveling the Effect of Thermomechanical Treatment on the Dissolution of Delta Ferrite in Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 641-648.	1.1	12
141	A simple Zerilli-Armstrong constitutive equation for modeling and prediction of hot deformation flow stress of steels. <i>Mechanics of Materials</i> , 2016, 94, 38-45.	1.7	67
142	Dynamic recrystallization kinetics in Mg-3Gd-1Zn magnesium alloy during hot deformation. <i>International Journal of Materials Research</i> , 2016, 107, 277-279.	0.1	21
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