

R D K Misra

List of Publications by Year in descending order

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157
papers

3,684
citations

117571

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52
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all docs

158
docs citations

158
times ranked

3000
citing authors

#	ARTICLE	IF	CITATIONS
1	Austenite stability and deformation behavior in a cold-rolled transformation-induced plasticity steel with medium manganese content. <i>Acta Materialia</i> , 2015, 84, 229-236.	3.8	343
2	The influence of cell morphology on the compressive fatigue behavior of Ti-6Al-4V meshes fabricated by electron beam melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 251-264.	1.5	194
3	Ensuring combination of strength, ductility and toughness in medium-manganese steel through optimization of nano-scale metastable austenite. <i>Materials Characterization</i> , 2018, 136, 20-28.	1.9	131
4	Austenite stability and its effect on the toughness of a high strength ultra-low carbon medium manganese steel plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 153-163.	2.6	127
5	High strength and ductility combination in nano-/ultrafine-grained medium-Mn steel by tuning the stability of reverted austenite involving intercritical annealing. <i>Journal of Materials Science</i> , 2019, 54, 6565-6578.	1.7	85
6	On the influence of deformation mechanism during cold and warm rolling on annealing behavior of a 304 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 341-355.	2.6	78
7	Ultrahigh strength-toughness combination in Bainitic rail steel: The determining role of austenite stability during tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 162-168.	2.6	70
8	Effect of two-step intercritical annealing on microstructure and mechanical properties of hot-rolled medium manganese TRIP steel containing γ -ferrite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 40-55.	2.6	63
9	Developments and Perspectives on Robust Nano- and Microstructured Binder-free Electrodes for Bifunctional Water Electrolysis and Beyond. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	63
10	High performance bifunctional electrocatalytic activity of a reduced graphene oxide-molybdenum oxide hybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13271-13279.	5.2	62
11	Biological functionality of extracellular matrix-ornamented three-dimensional printed hydroxyapatite scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1343-1351.	2.1	60
12	Structure-mechanical property relationship in a low-C medium-Mn ultrahigh strength heavy plate steel with austenite-martensite submicro-laminate structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 647, 144-151.	2.6	57
13	Interplay between self-assembled structure of bone morphogenetic protein (BMP) and osteoblast functions in three-dimensional titanium alloy scaffolds: stimulation of osteogenic activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 517-532.	2.1	57
14	Chitosan-gelatin-based microgel for sustained drug delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 441-453.	1.9	54
15	Cellular response of osteoblasts to low modulus Ti-24Nb-4Zr-8Sn alloy mesh structure. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 859-870.	2.1	50
16	Epsilon carbide precipitation and wear behaviour of low alloy wear resistant steels. <i>Materials Science and Technology</i> , 2016, 32, 320-327.	0.8	49
17	Effect of microstructure on the crack propagation behavior of microalloyed 560MPa (X80) strip during ultra-fast cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 666, 214-224.	2.6	48
18	Cellular response of <i>Staphylococcus aureus</i> to nanostructured metallic biomedical devices: surface binding and mechanism of disruption of colonization. <i>Materials Technology</i> , 2017, 32, 22-31.	1.5	48

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19	Strengthening of cobalt-free 19Ni3Mo1.5Ti maraging steel through high-density and low lattice misfit nanoscale precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 174-185.	2.6	47
20	Biodegradable hydrogel-based biomaterials with high absorbent properties for non-adherent wound dressing. <i>International Wound Journal</i> , 2017, 14, 1076-1087.	1.3	46
21	Surface nanotopography-induced favorable modulation of bioactivity and osteoconductive potential of anodized 3D printed Ti-6Al-4V alloy mesh structure. <i>Journal of Biomaterials Applications</i> , 2018, 32, 1032-1048.	1.2	46
22	Correlation between deformation behavior and austenite characteristics in a Mn-Al type TRIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 126-135.	2.6	43
23	Innovative processing of obtaining nanostructured bainite with high strength - high ductility combination in low-carbon-medium-Mn steel: Process-structure-property relationship. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 267-276.	2.6	42
24	Evolution of microstructure and tensile properties during the three-stage heat treatment of TA19 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 716, 157-164.	2.6	42
25	Degradation behaviour of magnesium-rare earth biomedical alloys. <i>Materials Technology</i> , 2016, 31, 726-731.	1.5	41
26	Effect of interpass temperature on the microstructure and mechanical properties of multi-pass weld metal in a 550-MPa-grade offshore engineering steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 1155-1168.	1.3	41
27	Structure-mechanical property relationship in a high strength low carbon alloy steel processed by two-step intercritical annealing and intercritical tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 569-577.	2.6	40
28	Interplay between reversed austenite and plastic deformation in a directly quenched and intercritically annealed 0.04C-5Mn low-Al steel. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2072-2082.	2.8	39
29	Influence of intercritical tempering temperature on impact toughness of a quenched and tempered medium-Mn steel: Intercritical tempering versus traditional tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 484-491.	2.6	38
30	The contribution of long-period stacking-ordered structure (LPSO) to high strength-high ductility combination and nanoscale deformation behavior of magnesium-rare earth alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 713, 112-117.	2.6	38
31	Biological functionality and mechanistic contribution of extracellular matrix-ornamented three dimensional Ti-6Al-4V mesh scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2751-2763.	2.1	37
32	Investigation of mechanical, thermal and surface properties of nanoclay/HDPE nanocomposites produced industrially by melt mixing approach. <i>Journal of Composite Materials</i> , 2016, 50, 3105-3116.	1.2	37
33	Aging phenomenon in low lattice-misfit cobalt-free maraging steel: Microstructural evolution and strengthening behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 445-454.	2.6	37
34	Evolution of microstructure and crystallographic texture of microalloyed steel during warm rolling in dual phase region and their influence on mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 194-204.	2.6	36
35	Microstructure-property relationship in bainitic steel: The effect of austempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 120-127.	2.6	35
36	Nanoscale precipitates strengthened lanthanum-bearing Mg-3Sn-1Mn alloys through continuous rheo-rolling. <i>Scientific Reports</i> , 2016, 6, 23154.	1.6	35

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37	High-cycle fatigue behavior of low-C medium-Mn high strength steel with austenite-martensite submicron-sized lath-like structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 477-482.	2.6	35
38	Biomimetic nanostructured hydroxyapatite coatings on metallic implant materials. <i>Materials Technology</i> , 2016, 31, 782-790.	1.5	34
39	TiO ₂ nanotubes synthesised on Ti-6Al-4V ELI exhibits enhanced osteogenic activity: A potential next-generation material to be used as medical implants. <i>Materials Technology</i> , 2021, 36, 393-399.	1.5	34
40	Design and biological functionality of a novel hybrid Ti-6Al-4V/hydrogel system for reconstruction of bone defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1133-1144.	1.3	33
41	Nanoscale spheroidized cementite induced ultrahigh strength-ductility combination in innovatively processed ultrafine-grained low alloy medium-carbon steel. <i>Scientific Reports</i> , 2017, 7, 2679.	1.6	32
42	Effect of deep cryogenic treatment on structure-property relationship in an ultrahigh strength Mn-Si-Cr bainite/martensite multiphase rail steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 559-566.	2.6	30
43	Cellular response of <i>Escherichia coli</i> to Mg-2Zn-2Gd alloy with different grain structure: mechanism of disruption of colonisation. <i>Materials Technology</i> , 2016, 31, 836-844.	1.5	28
44	Electric field-mediated growth of osteoblasts – the significant impact of dynamic flow of medium. <i>Biomaterials Science</i> , 2016, 4, 136-144.	2.6	28
45	Strain rate dependence on the evolution of microstructure and deformation mechanism during nanoscale deformation in low carbon-high Mn TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 116-123.	2.6	28
46	Phase reversion-induced nanostructured austenitic alloys: an overview. <i>Materials Technology</i> , 2022, 37, 437-449.	1.5	28
47	The functional response of bioactive titanium-modified three-dimensional Ti-6Al-4V mesh structure toward providing a favorable pathway for intercellular communication and osteoincorporation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2488-2501.	2.1	27
48	Atom probe tomography and numerical study of austenite stabilization in a low carbon low alloy steel processed by two-step intercritical heat treatment. <i>Scripta Materialia</i> , 2017, 137, 36-40.	2.6	27
49	Effect of vacuum level on microstructure and mechanical properties of titanium steel vacuum roll clad plates. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 72-80.	1.4	23
50	Determination of the mechanical, thermal and physical properties of nano-CaCO ₃ filled high-density polyethylene nanocomposites produced in an industrial scale. <i>Journal of Composite Materials</i> , 2016, 50, 3445-3456.	1.2	22
51	Nanomaterials in microfluidics for disease diagnosis and therapy development. <i>Materials Technology</i> , 2019, 34, 92-116.	1.5	22
52	Significant influence of carbon and niobium on the precipitation behavior and microstructural evolution and their consequent impact on mechanical properties in microalloyed steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 70-82.	2.6	20
53	Understanding the response of pulsed electric field on osteoblast functions in three-dimensional mesh structures. <i>Journal of Biomaterials Applications</i> , 2016, 31, 594-605.	1.2	19
54	Extending the boundaries of mechanical properties of Ti-Nb low-carbon steel via combination of ultrafast cooling and deformation during austenite-to-ferrite transformation. <i>Metals and Materials International</i> , 2017, 23, 175-183.	1.8	19

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55	On the strain rate sensitivity of aluminum-containing transformation-induced plasticity steels: Interplay between TRIP and TWIP effects. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 515-523.	2.6	19
56	Effect of interfacial compounds on mechanical properties of titanium-steel vacuum roll-cladding plates. <i>Materials Science and Technology</i> , 2018, 34, 1700-1709.	0.8	19
57	Tunable TiO ₂ -pepsin thin film as a low-temperature electron transport layer for photoelectrochemical cells. <i>Materials Technology</i> , 2017, 32, 829-837.	1.5	18
58	The significance of macromolecular architecture in governing structure-property relationship for biomaterial applications: an overview. <i>Materials Technology</i> , 2018, 33, 364-386.	1.5	18
59	Effect of Tempered Martensite and Ferrite/Bainite on Corrosion Behavior of Low Alloy Steel Used for Flexible Pipe Exposed to High-Temperature Brine Environment. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4911-4920.	1.2	18
60	Biological activity of nanostructured metallic materials for biomedical applications. <i>Materials Technology</i> , 2016, 31, 772-781.	1.5	17
61	Phase reverted transformation-induced nanograined microalloyed steel: Low temperature superplasticity and fracture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 105-111.	2.6	17
62	A comparative study on the tribological behavior of Ti-6Al-4V and Ti-24Nb-4Zr-8Sn alloys in simulated body fluid. <i>Materials Technology</i> , 2019, 34, 270-284.	1.5	17
63	Combined contribution of Cu-rich precipitates and retained austenite on mechanical properties of a novel low-carbon medium-Mn steel plate. <i>Journal of Materials Science</i> , 2019, 54, 3438-3454.	1.7	17
64	Biocompatibility and adhesion response of magnesium-hydroxyapatite/strontium-titania (Mg-HAp)/Ti-6Al-4V/Ti-60Sn-297 Ti	1.5	17
65	Processing-structure-mechanical property relationship in Ti-Nb microalloyed steel: Continuous cooling versus interrupted cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 254-263.	2.6	16
66	Hot Deformation Behavior and Processing Maps of a High Al-low Si Transformation-Induced Plasticity Steel: Microstructural Evolution and Flow Stress Behavior. <i>Acta Metallurgica Sinica (English Letters)</i>	1.5	16
67	The Determining Role of Nb Interlayer on Interfacial Microstructure and Mechanical Properties of Ti/Steel Clad Plate by Vacuum Rolling Cladding. <i>Materials</i> , 2018, 11, 1983.	1.3	16
68	Effect of Ti-Mg-Ca treatment on properties of heat-affected zone after high heat input welding. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 501-511.	1.4	16
69	Relationship between high angle grain boundaries and hardness after β transformation. <i>Materials Science and Technology</i> , 2019, 35, 1803-1814.	0.8	16
70	Mechanistic contribution of electroconductive hydroxyapatite-titanium disilicide composite on the alignment and proliferation of cells. <i>Journal of Biomaterials Applications</i> , 2016, 30, 1505-1516.	1.2	15
71	Effect of Heating Rate during Continuous Annealing on Microstructure and Mechanical Properties of High-Strength Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4556-4564.	1.2	15
72	Hot Deformation Behavior and Processing Maps of a Medium Manganese TRIP Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1021-1031.	1.5	15

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73	Precipitation Behavior of Laves Phase in the Vicinity of Oxide Film of Ferritic Stainless Steel: Selective Oxidation-Induced Precipitation. <i>Oxidation of Metals</i> , 2020, 93, 195-213.	1.0	15
74	Corrosion Behavior of Low-Alloy Pipeline Steel Exposed to H ₂ S/CO ₂ -Saturated Saline Solution. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1010-1017.	1.2	14
75	The Impact of Surface Treatment and Degree of Vacuum on the Interface and Mechanical Properties of Stainless Steel Clad Plate. <i>Materials</i> , 2018, 11, 1489.	1.3	14
76	On the origin and contribution of extended kinks and jogs and stacking fault ribbons to deformation behavior in an ultrahigh strength cobalt-free maraging steel with high density of low lattice misfit precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 728, 208-217.	2.6	14
77	The significance of deformation mechanisms on the fracture behavior of phase reversion-induced nanostructured austenitic stainless steel. <i>Scientific Reports</i> , 2018, 8, 7908.	1.6	14
78	A General Strategy for Enhancing 3D Printability of High Laser Reflectivity Pure Aluminum Powder. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4970-4976.	1.1	14
79	Fracture toughness behavior of low-C medium-Mn high-strength steel with submicron-scale laminated microstructure of tempered martensite and reversed austenite. <i>Journal of Materials Science</i> , 2019, 54, 12095-12105.	1.7	14
80	Recent Advances on Development of Hydroxyapatite Coating on Biodegradable Magnesium Alloys: A Review. <i>Materials</i> , 2021, 14, 5550.	1.3	14
81	The role of Cu and Al addition on the microstructure and fracture characteristics in the simulated coarse-grained heat-affected zone of high-strength low-alloy steels with superior toughness. <i>Materials Science and Technology</i> , 2017, 33, 1750-1764.	0.8	13
82	Ultra-high cycle fatigue property of a multiphase steel microalloyed with niobium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 1-8.	2.6	13
83	Bioactive coating on a new Mg-2Zn-0.5Nd alloy: modulation of degradation rate and cellular response. <i>Materials Technology</i> , 2019, 34, 394-402.	1.5	13
84	Alginate/poly(amidoamine) injectable hybrid hydrogel for cell delivery. <i>Journal of Biomaterials Applications</i> , 2018, 33, 295-314.	1.2	12
85	First principles calculation of interfacial stability, energy, and elemental diffusional stability of Fe (111)/Al ₂ O ₃ (0001) interface. <i>AIP Advances</i> , 2019, 9, .	0.6	12
86	Corrosion Behavior of High-Strength Steel for Flexible Riser Exposed to CO ₂ -Saturated Saline Solution and CO ₂ -Saturated Vapor Environments. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 607-617.	1.5	12
87	Characterization of Microstructure and Texture in Grain-Oriented High Silicon Steel by Strip Casting. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1394-1402.	1.5	11
88	A Novel thermo-mechanical controlled processing for large-thickness microalloyed 560 MPa (X80) pipeline strip under ultra-fast cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 373-377.	2.6	11
89	Microstructure and mechanical properties of a novel hot-rolled 4% Mn steel processed by intercritical annealing. <i>Journal of Materials Science</i> , 2018, 53, 12570-12582.	1.7	11
90	Design of an effective heat treatment involving intercritical hardening for high-strength high elongation of 0.2C-1.5Al-(6-8.5)Mn-Fe TRIP steels: Microstructural evolution and deformation behaviour. <i>Materials Science and Technology</i> , 2020, 36, 500-510.	0.8	11

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91	Surface biodegradation behavior of rare earth- containing magnesium alloys with different microstructure: the impact on apatite coating formation on the surface. <i>Materials Technology</i> , 2018, 33, 488-494.	1.5	10
92	Effect of inorganic nanofillers on the impact behavior and fracture probability of industrial high-density polyethylene nanocomposite. <i>Journal of Composite Materials</i> , 2018, 52, 2431-2442.	1.2	10
93	Effect of thermal treatment on the evolution of delta ferrite in 11Crâ€“3Coâ€“2.3W steel. <i>Materials Science and Technology</i> , 2018, 34, 2087-2096.	0.8	10
94	The Impact of Process Parameters on Microstructure and Mechanical Properties of Stainless Steel/Carbon Steel Clad Rebar. <i>Materials</i> , 2019, 12, 2868.	1.3	10
95	A medium-Mn steel processed by novel twin-roll strip casting route. <i>Materials Science and Technology</i> , 2019, 35, 1227-1238.	0.8	10
96	The determining role of pre-annealing on Mn partitioning behavior in medium-Mn-TRIP steel: experimental and numerical simulation. <i>Journal of Materials Science</i> , 2020, 55, 4437-4452.	1.7	10
97	Additive manufacturing of dental root-analogue implant with desired properties. <i>Materials Technology</i> , 2021, 36, 894-906.	1.5	10
98	Microstructure and Mechanism of Strengthening of Microalloyed Pipeline Steel: Ultra-Fast Cooling (UFC) Versus Laminar Cooling (LC). <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2511-2520.	1.2	9
99	The effect of warm deforming and reversal austenization on the microstructure and mechanical properties of a microalloyed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 182-189.	2.6	8
100	Comparison of corrosion behaviors of lowâ€“alloy steel exposed to vaporâ€“saturated H ₂ S/CO ₂ and H ₂ S/CO ₂ â€“saturated brine environments. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 566-579.	0.8	8
101	Microstructure and magnetic properties of strip-cast grain-oriented 4.5%Si steel under isochronal and isothermal secondary annealing. <i>Journal of Materials Science</i> , 2018, 53, 2928-2941.	1.7	8
102	Tuning austenite stability in a medium Mn steel and relationship to structure and mechanical properties. <i>Materials Science and Technology</i> , 2020, 36, 1308-1317.	0.8	8
103	Selective role of bainitic lath boundary in influencing slip systems and consequent deformation mechanisms and delamination in high-strength low-alloy steel. <i>Philosophical Magazine</i> , 2018, 98, 934-958.	0.7	7
104	Effect of rolling temperature on the microstructure, texture, and magnetic properties of strip-cast grain-oriented 3% Si steel. <i>Journal of Materials Science</i> , 2018, 53, 9217-9231.	1.7	7
105	Commercial Scale Uniform Powder Coating for Metal Additive Manufacturing. <i>Jom</i> , 2020, 72, 4639-4647.	0.9	7
106	Effects of ECAP extrusion on the mechanical and biodegradable properties of an extruded Mg-1.5Zn-0.5Y-0.5Zr alloy. <i>Materials Technology</i> , 2022, 37, 135-142.	1.5	7
107	Fabrication of biodegradable MgXCu(X=0, 0.1, 0.4, 0.7) coating on Ti6Al4V alloy with enhanced antibacterial property. <i>Materials Technology</i> , 2021, 36, 179-188.	1.5	7
108	Phase formation and mechanical properties of iron-based intermetallic/steel laminate composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2171-2183.	9.9	7

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109	Precipitation of carbonitrides and high-temperature strength in heat-affected zone of high-Nb containing fire-resistant steel. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 157-165.	1.5	6
110	Microstructural Evolution and the Precipitation Behavior in X90 Linepipe Steel During Isothermal Processing. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1494-1504.	1.2	6
111	Activating Trace Fe Impurity as Catalyst to Plant Carbon Nanotubes Within Ti-6Al-4V Powders for High-Performance Ti Metal Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3975-3979.	1.1	6
112	Retained austenite stabilisation in low carbon high silicon steel during isothermal holding. <i>Materials Science and Technology</i> , 2019, 35, 45-54.	0.8	6
113	The Significant Impact of the Characteristics of Granular Structure and Granular Bainite on the Mechanisms Contributing to Strength-Ductility Combination. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7479-7487.	1.2	6
114	Enhanced carbon enrichment in austenite through introducing pre-existing austenite as a carbon container™ in 0.2C-2Mn steel: The significant impact on microstructure and mechanical properties. <i>Materials Characterization</i> , 2021, 176, 111077.	1.9	6
115	The significance and design of hybrid process in governing high strength-high toughness combination of fiber laser-welded T-250 maraging steel joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 173-181.	2.6	5
116	Structure-property relationships in heat-affected zone of gas-shielded arc-welded V-N microalloyed steel. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 1244-1254.	1.4	5
117	On the Optimization of Microstructure and Mechanical Properties of CrWMn Tool Steel by Deep Cryogenic Treatment. <i>Steel Research International</i> , 2019, 90, 1800523.	1.0	5
118	The Significant Impact of Carbon Nanotubes on the Electrochemical Reactivity of Mg-Bearing Metallic Glasses with High Compressive Strength. <i>Materials</i> , 2019, 12, 2989.	1.3	5
119	Recoverable strain in a new biomedical Ti-24Nb-4Zr-8Sn alloy with cellular structure fabricated by electron beam melting. <i>Materials Technology</i> , 2020, 35, 881-886.	1.5	5
120	Favourable modulation of osteoblast cellular activity on Cu-containing austenitic stainless steel and comparison with the Cu-free counterpart. <i>Materials Technology</i> , 2020, 35, 411-420.	1.5	5
121	A Thermodynamic Analysis of Strengthening Mechanisms and Process-Structure-Property Relationships in Ti-Nb-Mo High-Strength Ferritic Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2946-2954.	1.2	5
122	The Influence of Cooling Rate on Austenite Stability and Mechanical Properties in an Austenite-Ferrite Medium-Mn Steel. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7917-7925.	1.2	5
123	Low temperature induced red-shift in violet-blue emission from Zn(Al, Ag)O nanoparticles. <i>Materials Technology</i> , 2022, 37, 1629-1638.	1.5	5
124	Effect of Cooling Rates in Coiling Process on Microstructures and Mechanical Properties in Al-Bearing Hot-Rolled TRIP Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1207-1218.	1.5	4
125	The Significance of Optimizing Mn-Content in Tuning the Microstructure and Mechanical Properties of γ -TRIP Steels. <i>Metals</i> , 2021, 11, 523.	1.0	4
126	Microstructure-toughness relationship in the simulated CGHAZ of V-N microalloyed X80 pipeline steel. <i>Materials Science and Technology</i> , 2021, 37, 1047-1059.	0.8	4

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127	Effect of Welding Thermal Cycle on Microstructural Characteristics and Toughness in Simulated Heat Affected Zone of Low-C Medium-Mn High Strength Steel. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2653-2663.	1.2	4
128	Interaction Between Natural Aging and Pre-Aging Processes and its Impact on the Age-Hardening Behavior of Al-Mg-Si Automotive Sheets. <i>Jom</i> , 2019, 71, 4405-4413.	0.9	3
129	Effect of Ca on microstructure and high temperature creep properties of AM60-1Ce alloy. <i>China Foundry</i> , 2019, 16, 88-96.	0.5	3
130	Effect of Tempering Mode on the Microstructure and Mechanical Properties of a Lean Alloy Martensitic Steel: Conventional Reheating Versus Induction Reheating. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2807-2815.	1.2	3
131	On the electrochemical behaviour of V-N-8Cr weathering steel in simulated industrial atmosphere. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 159-170.	0.7	3
132	Influence of microstructure modification on corrosion resistance of friction stir processing biodegradable Mg-Zn-Nd alloy. <i>Materials Technology</i> , 2020, , 1-6.	1.5	3
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