

# CITATION REPORT

List of articles citing

**Correlations between the calculated stacking fault energy and the plasticity mechanisms in FeMnC alloys**

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#	Paper	IF	Citations
893	Residual and Internal Stress States in Duplex Steel with TWIP Effect. <b>2006</b> , 524-525, 833-838		7
892	Influence of phase transformations on the mechanical properties of high-strength austenitic Fe-Mn-Cr steel. <b>2006</b> , 37, 307-317		78
891	Hot Workability of as-Cast High Manganese-High Carbon Steels. <b>2007</b> , 78, 536-545		25
890	Surface and mid-plane texture evolution in austenite phase of cold rolled austenitic stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 457, 236-245	5.3	15
889	The influence of aluminum on hot deformation behavior and tensile properties of high-Mn TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 467, 114-124	5.3	186
888	The Influence of Cr and N Additions on the Mechanical Properties of FeMnC Steels. <b>2007</b> , 38, 520-528		37
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886	Influence of addition elements on the stacking-fault energy and mechanical properties of an austenitic Fe-Mn steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 483-484, 184-187	5.3	502
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874	Derivation and Variation in Composition-Dependent Stacking Fault Energy Maps Based on Subregular Solution Model in High-Manganese Steels. <b>2009</b> , 40, 3076-3090		505
873	Origin of Extended Tensile Ductility of a Fe-28Mn-10Al-1C Steel. <b>2009</b> , 40, 1520-1523		112
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544	Negative to positive transition of strain rate sensitivity in Fe-22Mn-0.6C-x(Al) twinning-induced plasticity steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 690, 146-157	5.3	43
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437	Strain hardening and nanocrystallization behaviors in Hadfield steel subjected to surface severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 729, 178-184	5.3	17
436	Effects of alloying addition on deformation mechanisms, microstructure, texture and mechanical properties in Fe-12Mn-0.5C austenitic steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 729, 385-397	5.3	10
435	Experimental and numerical study of the mechanical behavior and kinetics of the martensitic transformation in 304L TRIP steel: applied to folding. <b>2018</b> , 97, 2757-2765		6
434	Investigation of nanoscale twinning in an advanced high manganese twinning-induced plasticity steel. <b>2018</b> , 1, 70-77		5
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418	Examining the influence of stacking fault width on deformation twinning in an austenitic stainless steel. <i>Scripta Materialia</i> , <b>2018</b> , 157, 162-166	5.6	15
417	Intercritical tempering enables nanoscale austenite/εmartensite formation in low-C medium-Mn steel: A pathway to control mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 736, 417-430	5.3	17
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414	Work hardening behavior and tensile properties of a high-Mn damping steel at elevated temperatures. <i>Materials Characterization</i> , <b>2018</b> , 144, 575-583	3.9	10
413	Substructure Development and Deformation Twinning Stimulation through Regulating the Processing Path during Multi-Axial Forging of Twinning Induced Plasticity Steel. <b>2018</b> , 20, 1800453		8
412	Difference between carbon and nitrogen in thermal stability of metastable 18%Cr-8%Ni austenite. <i>Scripta Materialia</i> , <b>2018</b> , 154, 8-11	5.6	19
411	Revealing the mechanical properties and microstructure evolutions of Fe <sub>2</sub> Mn <sub>0.6</sub> Al TWIP steels via Al alloying control. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 731, 61-70	5.3	12
410	Microstructures and Impact Wear Behavior of Al-Alloyed High-Mn Austenitic Cast Steel After Aging Treatment. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 4845-4855	1.6	8
409	Optimizing pulsed Nd: YAG laser welding of high-Mn TWIP steel using response surface methodology technique. <b>2019</b> , 120, 105721		10



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403	Effects of diameter and preparation of round shaped tensile specimen on mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 763, 138119	5.3	7
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399	Experimental and numerical study of mechanical properties of multi-phase medium-Mn TWIP-TRIP steel: influences of strain rate and phase constituents. <i>Acta Materialia</i> , <b>2019</b> , 177,	8.4	25
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391	The Effects of Recrystallization on Strength and Impact Toughness of Cold-Worked High-Mn Austenitic Steels. <i>Metals</i> , <b>2019</b> , 9, 948	2.3	8



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294	Heavily twinned CoCrNi medium-entropy alloy with superior strength and crack resistance. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 788, 139591	5.3	11
293	Anomalous effect of Si additions upon the paramagnetic-to-antiferromagnetic transition entropy in fcc high-Mn steels. <b>2020</b> , 830, 154554		1
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289	Fracture behavior of twinning-induced plasticity steel during wire drawing. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 4527-4537	5.5	6
288	Influence of Al Additions on the Microstructure and Mechanical Properties of a C and Si-Free High-Mn Steel. <i>Metals</i> , <b>2020</b> , 10, 352	2.3	1
287	Thermodynamics-kinetics of twinning/martensitic transformation in Fe <sub>50</sub> Mn <sub>30</sub> Co <sub>10</sub> Cr <sub>10</sub> high-entropy alloy during adiabatic shearing. <i>Scripta Materialia</i> , <b>2020</b> , 181, 115-120	5.6	13
286	In Situ Neutron Diffraction Study of Phase Transformation of High Mn Steel with Different Carbon Content. <i>Crystals</i> , <b>2020</b> , 10, 101	2.3	2
285	The relationship between fracture mechanism and substructures of primary M <sub>7</sub> C <sub>3</sub> under the hot compression process of self-healing hypereutectic high chromium cast iron. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 779, 139150	5.3	7
284	Neutron Diffraction and Diffraction Contrast Imaging for Mapping the TRIP Effect under Load Path Change. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
283	The microstructures and tensile properties of aged Fe-xMn-8Al-0.8C low-density steels. <b>2020</b> , 36, 681-689		3



282	Effect of silicon addition on the microstructures, mechanical properties and helium irradiation resistance of NiCoCr-based medium-entropy alloys. <b>2020</b> , 844, 156162		12
281	Thermodynamic Stacking Fault Energy, Chemical Composition, and Microstructure Relationship in High-Manganese Steels. <b>2020</b> , 51, 4812-4825		6
280	The combined and interactive effects of orientation, strain amplitude, cycle number, stacking fault energy and hydrogen doping on microstructure evolution of polycrystalline high-manganese steels under low-cycle fatigue. <b>2020</b> , 134, 102803		2
279	The sigmoidal strain hardening behaviour of a metastable AISI 301LN austenitic stainless steel as a function of temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 792, 139741	5.3	7
278	A four parameter hardening model for TWIP and TRIP steels. <i>Materials and Design</i> , <b>2020</b> , 194, 108878	8.1	10
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276	The potential of mechanical twinning in ultrafine retained austenite to enhance high cycle fatigue property of advanced bainitic steels. <b>2020</b> , 139, 105804		10
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271	Low formability and reduction of area in twinning-induced plasticity steels despite their excellent tensile elongation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 779, 139123	5.3	6
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266	Excellent strength-ductility synergy in metastable high entropy alloy by laser powder bed additive manufacturing. <b>2020</b> , 32, 101098		16
265	Revealing the mechanism of extraordinary hardness without compensating the toughness in a low alloyed high carbon steel. <b>2020</b> , 10, 181		4

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261	Microstructure and tensile behavior of nanostructured gradient TWIP steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 785, 139346	5.3	7
260	Effect of Temperature on the Mechanical Properties and Deformation Mechanism of a High Mn Steel With Composite Structure. <b>2020</b> , 7,		2
259	Microstructural evolution and stress state related to mechanical properties of electron beam melted Ti-6Al-4V alloy modified by laser shock peening. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 50, 153-161	9.1	32
258	Enhancement of strength and ductility by Cu-rich precipitation in Cu-bearing 304L austenitic stainless steel. <i>Materials Letters</i> , <b>2020</b> , 272, 127815	3.3	2
257	Composition and processing design of medium-Mn steels based on CALPHAD, SFE modeling, and genetic optimization. <i>Acta Materialia</i> , <b>2020</b> , 193, 291-310	8.4	9
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251	Horizontal Single Belt Casting of Thin Strips of an Advanced High Strength Steel (Fe-1%Mn-0.5%Al-0.8%Si-0.08%C wt%). <b>2021</b> , 92, 2000203		1
250	Corrosion Behavior of High-Mn Austenitic Fe-Mn-Al-Cr-C Steels in NaCl and NaOH Solutions. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
249	Mechanical stability of retained austenite in aluminum-containing medium-Mn steel deformed at different temperatures. <b>2021</b> , 21, 1		5
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240	Corrosion Mechanisms of High-Mn Twinning-Induced Plasticity (TWIP) Steels: A Critical Review. <i>Metals</i> , <b>2021</b> , 11, 287	2.3	4
239	Mesoscopic nature of serration behavior in high-Mn austenitic steel. <i>Acta Materialia</i> , <b>2021</b> , 205, 116543	8.4	11
238	Temperature Effect on Twin Initiation during Equal-Channel Angular Pressing and Mechanical Properties of Twinning-Induced Plasticity Steel. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	
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227	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. <b>2021</b> , 139, 102965		19
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224	Combined Effects of Mn, C, and H on the Stacking Fault Energy in Austenitic Mn Steels. <b>2021</b> , 92, 2000550		0
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222	Development of ferrous-based weldable seismic damping alloy with prolonged plastic fatigue life. <i>Scripta Materialia</i> , <b>2021</b> , 197, 113815	5.6	2
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203	Effect of strain on generalized stacking fault energies and plastic deformation modes in fcc-hcp polymorphic high-entropy alloys: A first-principles investigation. <b>2021</b> , 5,		2
202	Microstructure Evolution and Tensile Properties of Cold-Rolled and Annealed Fe-30Mn-0.14C-7Cr-0.26Ni Steel. <b>2021</b> , 52, 3839-3848		1
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200	On the Prediction of Stacking Fault Energy on Medium MN Steels. 1		
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194	Effect of Nb microalloying on microstructure evolution and mechanical properties in low carbon medium manganese steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 824, 141813	5.3	4
193	Synergy effect of multi-strengthening mechanisms in FeMnCoCrN HEA at cryogenic temperature. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 86, 158-170	9.1	10

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186	Combined effects of welding heat input and peak temperature on precipitation and mechanical properties of the HAZ for modified austenitic medium manganese steels. <i>Materials Research Express</i> ,	1.7	0
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178	Theoretical and experimental study of phase transformation and twinning behavior in metastable high-entropy alloys. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 99, 161-168	9.1	4
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167	Effect of Carbon and Nitrogen on Md30 in Metastable Austenitic Stainless Steel. <b>2019</b> , 105, 1163-1172		9
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163	Un estudio adicional de la cinÃ©tica de recristalizaciÃ³n y crecimiento de grano del acero twip laminado en frÃ³. <b>2018</b> , 54, 131		3
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149	Dynamic Mechanical Behavior and Microstructure of the Al <sub>0.1</sub> CoCrFeNiTi <sub>x</sub> High-Entropy Alloys. 2101260		1
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141	Effect of Prior Deformation Above M <sub>d</sub> Temperature on Tensile Properties of Type 304 Metastable Austenitic Stainless Steel. <b>2022</b> , 53, 95		1
140	Study of Cold Rolling on the Transformation Mechanism, Microstructure, and Properties of 304 Austenitic Stainless Steel. 2100341		
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134	Recent Progress in Understanding the Nano/Micro-Mechanical Behavior of Austenite in Advanced High Strength Steels. <i>Metals</i> , <b>2021</b> , 11, 1927	2.3	
133	Enhancement in mechanical properties through an FCC-to-HCP phase transformation in an Fe-17.5Mn-10Co-12.5Cr-5Ni-5Si (in at%) medium-entropy alloy. <b>2021</b> , 898, 162765		1
132	Complex Structural Effects in Deformed High-Manganese Steel. <i>Materials</i> , <b>2021</b> , 14,	3.5	0
131	Influence of carbon addition on mechanical properties of Fe-Mn twinning-induced plasticity steels. 1		0
130	An Investigation on Microstructures and Mechanical Properties of Twinning-Induced Plasticity Steels Prepared by Directional Solidification. <i>Journal of Materials Engineering and Performance</i> , <b>2022</b> , 31, 3326	1.6	
129	A simultaneously improved strength and ductility on carbide free bainite steel via novel ausrolling and twinning process based on SFE controlling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 832, 142442	5.3	0
128	Mechanical Behavior of High-Entropy Alloys: A Review. <b>2021</b> , 435-522		1
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126	Effect of nickel addition on enhancing nano-structuring and suppressing TRIP effect in Fe <sub>40</sub> Mn <sub>40</sub> Co <sub>10</sub> Cr <sub>10</sub> high entropy alloy during high-pressure torsion. <b>2022</b> , 150, 103193		0
125	Thermodynamics-based design strategy for optimizing strength and ductility of Cr-Ni-Mn-Fe medium-entropy alloys. <b>2022</b> , 899, 163331		1
124	Temperature effect on tensile behavior of an interstitial high entropy alloy: Crystal plasticity modeling. <b>2022</b> , 150, 103201		4
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105	Effect of Cu and solid solution temperature on microstructure and mechanical properties of Fe-Mn-Al-C low-density steels. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 1307-1321	5.5	0
104	Influence of prior creep-fatigue exposure on remnant tensile and creep properties of AISI 321 austenite stainless steel. <b>2022</b> , 159, 106826		0
103	Generalized stacking faults energies of face-centered cubic high-entropy alloys: A first-principles study. <b>2022</b> , 145, 107556		1

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98	Sustaining strength-ductility synergy of SLM Fe50Mn30Co10Cr10 metastable high-entropy alloy by Si addition. <b>2022</b> , 145, 107565		2
97	A Study on Effect of Heat Treatment on Strain-Induced Martensitic Transformation in Type-304 Austenitic Stainless Steel. <b>2022</b> , 584-591		
96	A New Understanding of Transformation Induced Plasticity (T <sub>rip</sub> ) Effect. <i>SSRN Electronic Journal</i> ,	1	
95	Research on Microstructures and Properties of High-Strength Anticorrosion Twinning-Induced Plasticity Steels. <i>Metals</i> , <b>2022</b> , 12, 537	2.3	
94	Effect of Carbon and Nitrogen on the Stacking Fault Energy in Austenitic Steels. <b>2022</b> , 2022, 347-354		
93	A review on the science of plastic deformation in laser-based additively manufactured steel. <i>Journal of Materials Science</i> ,	4.3	1
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88	Microstructural study of microbands in a Fe-30Mn-6.5Al-0.3C low-density steel deformed at cryogenic temperature by combined electron channeling contrast imaging and electron backscatter diffraction. <i>Acta Materialia</i> , <b>2022</b> , 233, 117980	8.4	0
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80	Achieving Strength-Ductility Synergy in Nanotwinned Ferritic TWIP Steels Prepared by Cryogenic Deformation at the Optimum Temperature. <i>SSRN Electronic Journal</i> ,	1	
79	Understanding Orientation-Dependent Plasticity in Laser Beam Powder Bed Fusion Stainless Steel Through Crystal Plasticity Modelling. <i>SSRN Electronic Journal</i> ,	1	
78	Effect of B Addition on Microstructure and Mechanical Properties of High-Strength 13Mn TRIP Steel with Different Annealing Temperatures. <i>Crystals</i> , <b>2022</b> , 12, 776	2.3	
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75	Revealing the cryogenic-temperature toughness and deformation mechanisms in high manganese austenitic steels. <i>Materials Characterization</i> , <b>2022</b> , 190, 112024	3.9	0
74	Simultaneous Twinning and Microband-Induced Plasticity of a Compositionally Complex Alloy with Interstitial Carbon at Cryogenic Temperatures.		
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71	Numerical Modeling and Simulations of Twinning-Induced Plasticity Using Crystal Plasticity Finite Element Method. <i>Crystals</i> , <b>2022</b> , 12, 930	2.3	0
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69	Martensite transformation behavior and mechanical properties of two kinds of low-nickel austenite stainless steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2022</b> , 53, 808-818	0.9	
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67	Strengthening Contributions of Mechanical Twinning and Dislocations to the Flow Stress of Hadfield High-Manganese Steel: Quantitative Analysis. <i>Journal of Materials Engineering and Performance</i> ,	1.6	



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65	Heterostructured stainless steel: Properties, current trends, and future perspectives. <i>Materials Science and Engineering Reports</i> , <b>2022</b> , 150, 100691	30.9	1
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60	A short review on the role of alloying elements in duplex stainless steels.		0
59	Microstructure and mechanical properties of Co-added and Al-added austenitic stainless steels. <b>2022</b> , 143832		0
58	A new understanding of transformation induced plasticity (TRIP) effect in austenitic steels. <b>2022</b> , 143742		0
57	Effect of phase interface on stretch-flangeability of metastable ferrous medium-entropy alloys. <b>2022</b> , 852, 143683		
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55	Understanding orientation-dependent plasticity in laser beam powder bed fusion stainless steel through crystal plasticity modelling. <b>2022</b> , 852, 143682		
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53	Tensile and Charpy impact properties of heat-treated high manganese steel at cryogenic temperatures. <b>2022</b> , 570, 153982		0
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- 44 Microstructure evolution and mechanical response of Co-free Ni<sub>2</sub>CrFeAl<sub>0.3</sub>Ti<sub>x</sub> high-entropy alloys. **2023**, 931, 167523 ○
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