

# Recent developments in stainless steels

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Increased Biocompatibility and Bioactivity after Energetic PVD Surface Treatments. <i>Materials</i> , 2009, 2, 1341-1387.	1.3	15
2	Probabilistic model of strain hardening of Fe-Mn-based austenitic steels. <i>Scripta Materialia</i> , 2009, 61, 947-950.	2.6	4
3	Formation and microstructural characterisation of S-phase layers in Ni-free austenitic stainless steels by low-temperature plasma surface alloying. <i>Surface and Coatings Technology</i> , 2009, 204, 330-335.	2.2	48
4	Precipitation of Secondary Phases in Lean Duplex Stainless Steel 2101 during Isothermal Ageing. <i>ISIJ International</i> , 2010, 50, 286-293.	0.6	40
5	Surface roughness prediction in turning of femoral head. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 51, 79-86.	1.5	31
6	Laser cleaning of steel for paint removal. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 249-253.	1.1	110
7	Surface property enhancement of Ni-free medical grade austenitic stainless steel by low-temperature plasma carburising. <i>Surface and Coatings Technology</i> , 2010, 205, 388-395.	2.2	17
8	The correlation between yielding behavior and precipitation in ultra purified ferritic stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3800-3806.	2.6	35
9	Effects of chromium on the corrosion and electrochemical behaviors of ultra high strength steels. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010, 17, 282-289.	2.4	35
10	Grain Refining of 409L Ferritic Stainless Steel Using Fe-Ti-N Master Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1616-1620.	1.1	16
11	Transformation and Precipitation Kinetics in 30Cr10Ni Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2197-2207.	1.1	6
12	Thermal, magnetic and composition analyses of the reverse transformation of intermetallic sigma phase to ferrite. <i>Journal of Materials Science</i> , 2010, 45, 1790-1795.	1.7	2
13	Two layered silica protective film made by a spray-and-dip coating method on 304 stainless steel. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 207-212.	1.1	12
14	Antibacterial glass films prepared on metal surfaces by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 56, 227-235.	1.1	6
15	Influence of annealing conditions on microstructure and phase occurrence in high-alloy CrMnN steels. <i>Materials Characterization</i> , 2010, 61, 969-974.	1.9	12
16	Direct observation of hydrogen-enhanced plasticity in super duplex stainless steel by means of in situ electrochemical methods. <i>Scripta Materialia</i> , 2010, 62, 242-245.	2.6	48
17	Adjusting the very high cycle fatigue properties of a metastable austenitic stainless steel by means of the martensite content. <i>Procedia Engineering</i> , 2010, 2, 1663-1672.	1.2	35
18	Effect of austenite stability on the low cycle fatigue behavior and microstructure of high alloyed metastable austenitic cast TRIPsteels. <i>Procedia Engineering</i> , 2010, 2, 2085-2094.	1.2	66

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19	High temperature tensile behavior of a PH stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4727-4732.	2.6	12
20	On the cryogenic magnetic transition and martensitic transformation of the austenite phase of 7MoPLUS duplex stainless steel. Journal of Magnetism and Magnetic Materials, 2010, 322, 2335-2339.	1.0	11
21	Microstructural characterisation and change in a.c. magnetic susceptibility of duplex stainless steel during spinodal decomposition. Journal of Nuclear Materials, 2010, 401, 143-148.	1.3	10
22	Depth-profiling electrochemical measurements of low temperature plasma carburised 316L stainless steel in 1M H <sub>2</sub> SO <sub>4</sub> solution. Surface and Coatings Technology, 2010, 204, 2789-2796.	2.2	34
23	Influence of gas nitriding pressure on the surface properties of ASTM F138 stainless steel. Surface and Coatings Technology, 2010, 204, 2976-2980.	2.2	14
24	Low temperature glow-discharge nitriding of a low nickel austenitic stainless steel. Surface and Coatings Technology, 2010, 204, 3410-3417.	2.2	28
25	High temperature dephosphorus behavior of Baotou mixed rare earth concentrate with carbon. Journal of Rare Earths, 2010, 28, 194-197.	2.5	11
26	The Addition of Silica Nanoparticles with Different Sizes for a Silica Film on Stainless Steel without Crack Formation. Materials Science Forum, 2010, 654-656, 1815-1818.	0.3	0
27	Internal Friction on AISI 304 Stainless Steels with Low Tensile Deformations at Temperatures between $50$ and $200$ K. Advances in Materials Science and Engineering, 2010, 2010, 1-8.	1.0	11
28	Effect of Pre-Deforming on Plasma Nitriding Response of 304 Stainless Steel. Materials Science Forum, 2010, 654-656, 1811-1814.	0.3	0
29	X-ray diffraction of high nitrogen face centred cubic phase formed on nitrogen modified austenitic stainless steel. Surface Engineering, 2010, 26, 305-311.	1.1	15
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38	Biocompatible Carbohydrate-Functionalized Stainless Steel Surfaces: A New Method For Passivating Biomedical Implants. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1601-1612.	4.0	52
39	Characterization of Precipitation Sequences in Superaustenitic Stainless Steels. <i>Solid State Phenomena</i> , 0, 172-174, 493-498.	0.3	16
40	EBSD and AFM observations of the microstructural changes induced by low temperature plasma carburising on AISI 316. <i>Applied Surface Science</i> , 2011, 258, 608-613.	3.1	25
41	IGSCC crack growth in simulated BWR environment – Effect of nitrogen content in non-sensitised and warm rolled austenitic stainless steel. <i>Corrosion Science</i> , 2011, 53, 1120-1129.	3.0	21
42	Corrosion behaviour of corrugated lean duplex stainless steels in simulated concrete pore solutions. <i>Corrosion Science</i> , 2011, 53, 1748-1755.	3.0	84
43	High corrosion resistance of austenitic stainless steel alloyed with nitrogen in an acid solution. <i>Corrosion Science</i> , 2011, 53, 2176-2183.	3.0	79
44	Hydrogen uptake in austenitic stainless steels by exposure to gaseous hydrogen and its effect on tensile deformation. <i>Corrosion Science</i> , 2011, 53, 2619-2629.	3.0	78
45	Repetitive Thermomechanical Processing towards Ultra Fine Grain Structure in 301, 304 and 304L Stainless Steels. <i>Journal of Materials Science and Technology</i> , 2011, 27, 338-343.	5.6	26
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47	Alloy Steel: Properties and Use First-Principles Quantum Mechanical Approach to Stainless Steel Alloys. , 2011, , .		3
48	Nitriding of austenitic stainless steel using pulsed low energy ion implantation. <i>Surface and Coatings Technology</i> , 2011, 205, S286-S289.	2.2	12
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50	Stability and structures of the $\hat{\mu}$ -phases of iron nitrides and iron carbides from first principles. <i>Scripta Materialia</i> , 2011, 64, 296-299.	2.6	35
51	Structural strengthening of an austenitic stainless steel subjected to warm-to-hot working. <i>Materials Characterization</i> , 2011, 62, 432-437.	1.9	63
52	Influence of heat treatments on the micro-abrasion wear resistance of a superduplex stainless steel. <i>Wear</i> , 2011, 271, 1288-1294.	1.5	42
53	Stacking fault energies of Mn, Co and Nb alloyed austenitic stainless steels. <i>Acta Materialia</i> , 2011, 59, 5728-5734.	3.8	119
54	Effect of tensile stress on the formation of S-phase during low-temperature plasma carburizing of 316L foil. <i>Acta Materialia</i> , 2011, 59, 5765-5774.	3.8	25

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59	Covalent immobilization of liposomes on plasma functionalized metallic surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 214-220.	2.5	33
60	Precipitation of Second Phases in High-Interstitial-Alloyed Austenitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3543-3548.	1.1	35
61	Influence of CrN surface compound on the initial stages of high temperature oxidation of ferritic stainless steel. <i>Applied Surface Science</i> , 2011, 257, 7783-7791.	3.1	17
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63	Fatigue behavior and phase transformation in austenitic steels in the temperature range -60°C to 25°C. <i>Procedia Engineering</i> , 2011, 10, 625-630.	1.2	13
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69	Characteristics of Duplex Coating on Austenitic Stainless Steel. <i>Key Engineering Materials</i> , 0, 465, 255-258.	0.4	5
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71	Stress corrosion cracking (SCC) in stainless steels. , 2011, , 199-244.		24
72	Effect of solution annealing on structure and properties of high Mo superaustenitic stainless steel castings. <i>International Journal of Cast Metals Research</i> , 2012, 25, 287-295.	0.5	6

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93	Role of nitrogen in the active-passive transition behavior of binary Fe-Cr alloy system. <i>Electrochimica Acta</i> , 2012, 80, 432-439.	2.6	42
94	γ-Phase induced embrittlement in titanium containing austenitic stainless steel tie-bars in a condenser. <i>Engineering Failure Analysis</i> , 2012, 25, 123-132.	1.8	10
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103	Effect of C Fraction on Corrosion Properties of High Interstitial Alloyed Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2999-3005.	1.1	16
104	Heat Strength Evaluation and Microstructures Observation of the Welded Joints of One China-Made T91 Steel. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1313-1319.	1.2	13
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111	A ferrite stainless steel Cr27Mo6Al3Cu with oxidation resistance. <i>Materials &amp; Design</i> , 2012, 40, 171-175.	5.1	6
112	Grain size effect on strain hardening in twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2012, 66, 992-996.	2.6	232
113	Oriental dependence of lathy ferrite in Fe-Cr-Ni alloy during directional solidification. <i>Materials Letters</i> , 2012, 81, 177-180.	1.3	6
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128	Evolution of Secondary Phases Formed upon Solidification of a Ni-Based Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3014-3027.	1.1	10
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144	Mössbauer-spectroscopic study of the effect of He+ irradiation on model Fe-Cr alloys. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 302, 48-50.	0.6	5

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146	Effect of He <sup>+</sup> irradiation on Fe-Cr alloys: Mössbauer-effect study. <i>Journal of Nuclear Materials</i> , 2013, 434, 235-239.	1.3	12
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