Kim Verbeken

List of Publications by Year in descending order

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283	8,860	34016	62479
papers	citations	52 h-index	80 g-index

285	285	285	6803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Open Air Biocathode Enables Effective Electricity Generation with Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 7564-7569.	4.6	359
2	Microstructure and texture evolution during cold rolling and annealing of a high Mn TWIP steel. Acta Materialia, 2009, 57, 1512-1524.	3.8	293
3	Influence of urea and calcium dosage on the effectiveness of bacterially induced carbonate precipitation on limestone. Ecological Engineering, 2010, 36, 99-111.	1.6	193
4	Effect of hydrogen charging on the mechanical properties of advanced high strength steels. International Journal of Hydrogen Energy, 2014, 39, 4647-4656.	3.8	186
5	Microstructure-based model for the static mechanical behaviour of multiphase steels. Acta Materialia, 2006, 54, 1443-1456.	3.8	163
6	Internal and surface damage of multiphase steels and pure iron after electrochemical hydrogen charging. Corrosion Science, 2011, 53, 3166-3176.	3.0	162
7	Modern HSLA steels and role of non-recrystallisation temperature. International Materials Reviews, 2012, 57, 187-207.	9.4	160
8	Diclofenac Oxidation by Biogenic Manganese Oxides. Environmental Science & Technology, 2010, 44, 3449-3454.	4.6	141
9	The detrimental effect of hydrogen at dislocations on the hydrogen embrittlement susceptibility of Fe-C-X alloys: An experimental proof of the HELP mechanism. International Journal of Hydrogen Energy, 2018, 43, 3050-3061.	3.8	140
10	The effect of TiC on the hydrogen induced ductility loss and trapping behavior of Fe-C-Ti alloys. Corrosion Science, 2016, 112, 308-326.	3.0	139
11	Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. Water Research, 2014, 54, 211-221.	5.3	133
12	Combined thermal desorption spectroscopy, differential scanning calorimetry, scanning electron microscopy and X-ray diffraction study of hydrogen trapping in cold deformed TRIP steel. Acta Materialia, 2012, 60, 2593-2605.	3.8	130
13	Tempering Kinetics of the Martensitic Phase in DP Steel. ISIJ International, 2006, 46, 138-146.	0.6	128
14	High shear enrichment improves the performance of the anodophilic microbial consortium in a microbial fuel cell. Microbial Biotechnology, 2008, 1, 487-496.	2.0	128
15	Through process texture evolution and magnetic properties of high Si non-oriented electrical steels. Materials Characterization, 2012, 71, 49-57.	1.9	123
16	Advanced high strength steels for automotive industry. Revista De Metalurgia, 2012, 48, 118-131.	0.1	118
17	Evaluation of hydrogen trapping in high strength steels by thermal desorption spectroscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 50-58.	2.6	109
18	Virus disinfection in water by biogenic silver immobilized in polyvinylidene fluoride membranes. Water Research, 2011, 45, 1856-1864.	5.3	107

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19	Determination of the hydrogen fugacity during electrolytic charging of steel. Corrosion Science, 2014, 87, 239-258.	3.0	106
20	Recrystallizationâ€“precipitation interaction during austenite hot deformation of a Nb microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5519-5528.	2.6	102
21	Influence of temperature on the effectiveness of a biogenic carbonate surface treatment for limestone conservation. Applied Microbiology and Biotechnology, 2013, 97, 1335-1347.	1.7	100
22	Microstructural characterization of hydrogen induced cracking in TRIP-assisted steel by EBSD. Materials Characterization, 2016, 112, 169-179.	1.9	100
23	Thermal desorption spectroscopy study of the interaction between hydrogen and different microstructural constituents in lab cast Feâ€“C alloys. Corrosion Science, 2012, 65, 199-208.	3.0	99
24	Antibacterial activity of a porous silver doped TiO2 coating on titanium substrates synthesized by plasma electrolytic oxidation. Applied Surface Science, 2020, 500, 144235.	3.1	95
25	Microtextural study of orientation change during nucleation and growth in a cold rolled ULC steel. Scripta Materialia, 2003, 48, 1457-1462.	2.6	94
26	Fractographic analysis of the role of hydrogen diffusion on the hydrogen embrittlement susceptibility of DP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 201-208.	2.6	94
27	Trace organic solutes in closed-loop forward osmosis applications: Influence of membrane fouling and modeling of solute build-up. Water Research, 2013, 47, 5232-5244.	5.3	93
28	Scanning electrochemical microscopy to study the effect of crystallographic orientation on the electrochemical activity of pure copper. Electrochimica Acta, 2014, 116, 89-96.	2.6	87
29	Evaluation of the Crystallographic Orientation Relationships between FCC and BCC Phases in TRIP Steels. ISIJ International, 2009, 49, 1601-1609.	0.6	86
30	Effect of deformation and charging conditions on crack and blister formation during electrochemical hydrogen charging. Acta Materialia, 2017, 127, 192-202.	3.8	86
31	Influence of Pore Structure on the Effectiveness of a Biogenic Carbonate Surface Treatment for Limestone Conservation. Applied and Environmental Microbiology, 2011, 77, 6808-6820.	1.4	85
32	Evaluation of the effect of V4C3 precipitates on the hydrogen induced mechanical degradation in Fe-C-V alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 299-313.	2.6	82
33	Hydrogen trapping and hydrogen induced mechanical degradation in lab cast Fe-C-Cr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 134-149.	2.6	81
34	Functionalized chitosan adsorbents allow recovery of palladium and platinum from acidic aqueous solutions. Green Chemistry, 2019, 21, 2295-2306.	4.6	81
35	Dimensional Effects on Magnetic Properties of Fe–Si Steels Due to Laser and Mechanical Cutting. IEEE Transactions on Magnetics, 2010, 46, 213-216.	1.2	78
36	Corrosion and corrosion prevention in heat exchangers. Corrosion Reviews, 2019, 37, 131-155.	1.0	78

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37	Effect of Ti, Mo and Cr based precipitates on the hydrogen trapping and embrittlement of Feâ€“Câ€“X Q&T alloys. International Journal of Hydrogen Energy, 2015, 40, 16977-16984.	3.8	76
38	Thermal Desorption Spectroscopy Evaluation of the Hydrogen-Trapping Capacity of NbC and NbN Precipitates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2412-2420.	1.1	71
39	Metal losses in pyrometallurgical operations - A review. Advances in Colloid and Interface Science, 2018, 255, 47-63.	7.0	67
40	Characterization of hydrogen induced cracking in TRIP-assisted steels. International Journal of Hydrogen Energy, 2015, 40, 16901-16912.	3.8	65
41	Evaluation of the role of Mo2C in hydrogen induced ductility loss in Q&T Fe C Mo alloys. International Journal of Hydrogen Energy, 2016, 41, 14310-14329.	3.8	64
42	On the synergy of diffusible hydrogen content and hydrogen diffusivity in the mechanical degradation of laboratory cast Fe-C alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 664, 195-205.	2.6	62
43	Use of existing steel pipeline infrastructure for gaseous hydrogen storage and transport: A review of factors affecting hydrogen induced degradation. Journal of Natural Gas Science and Engineering, 2022, 101, 104534.	2.1	62
44	Removal of diatrizoate with catalytically active membranes incorporating microbially produced palladium nanoparticles. Water Research, 2010, 44, 1498-1506.	5.3	61
45	Biogenic Palladium Enhances Diatrizoate Removal from Hospital Wastewater in a Microbial Electrolysis Cell. Environmental Science & Technology, 2011, 45, 5737-5745.	4.6	60
46	Thermal desorption spectroscopy study of the interaction of hydrogen with TiC precipitates. Metals and Materials International, 2013, 19, 741-748.	1.8	60
47	Effect of neighboring grains on the microscopic corrosion behavior of a grain in polycrystalline copper. Corrosion Science, 2013, 67, 179-183.	3.0	60
48	On the correlation between microstructure and magnetic losses in electrical steel. Journal of Magnetism and Magnetic Materials, 2008, 320, 2490-2493.	1.0	59
49	Microbial fuel cells operated with iron-chelated air cathodes. Electrochimica Acta, 2009, 54, 5754-5760.	2.6	58
50	Texture comparison between room temperature rolled and cryogenically rolled pure copper. Acta Materialia, 2015, 95, 224-235.	3.8	57
51	Elucidation of the Mechanism in Fluorine-Free Prepared YBa₂Cu₃O_{7â^'Î´} Coatings. Inorganic Chemistry, 2010, 49, 4471-4477.	1.9	56
52	Effect of silicon on the microstructure and growth kinetics of intermetallic phases formed during hot-dip aluminizing of ferritic steel. Surface and Coatings Technology, 2017, 319, 104-109.	2.2	56
53	Determination of the equivalent hydrogen fugacity during electrochemical charging of 3.5NiCrMoV steel. Corrosion Science, 2018, 132, 90-106.	3.0	55
54	The corrosion resistance of 316L stainless steel coated with a silane hybrid nanocomposite coating. Progress in Organic Coatings, 2011, 72, 709-715.	1.9	54

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55	In vitro model to study the modulation of the mucin-adhered bacterial community. Applied Microbiology and Biotechnology, 2009, 83, 349-359.	1.7	51
56	Nitrate-reducing, sulfide-oxidizing bacteria as microbial oxidants for rapid biological sulfide removal. FEMS Microbiology Ecology, 2009, 67, 151-161.	1.3	50
57	Corrosion resistance performance of cerium doped silica solâ€“gel coatings on 304L stainless steel. Progress in Organic Coatings, 2012, 75, 463-473.	1.9	50
58	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. Separation and Purification Technology, 2019, 228, 115793.	3.9	50
59	Microstructural based hydrogen diffusion and trapping models applied to Feâ€“C X alloys. Journal of Alloys and Compounds, 2020, 826, 154057.	2.8	50
60	Austenite Recrystallizationâ€“Precipitation Interaction in Niobium Microalloyed Steels. ISIJ International, 2009, 49, 911-920.	0.6	49
61	Effect of speciation and composition on the kinetics and precipitation of arsenic sulfide from industrial metallurgical wastewater. Journal of Hazardous Materials, 2021, 409, 124418.	6.5	49
62	Dialdehyde carboxymethyl cellulose cross-linked chitosan for the recovery of palladium and platinum from aqueous solution. Reactive and Functional Polymers, 2019, 141, 145-154.	2.0	47
63	Model-based interpretation of thermal desorption spectra of Fe-C-Ti alloys. Journal of Alloys and Compounds, 2019, 789, 647-657.	2.8	47
64	Texture generation and implications in TWIP steels. Scripta Materialia, 2012, 66, 1007-1011.	2.6	45
65	Multi-method identification and characterization of the intermetallic surface layers of hot-dip Al-coated steel: FeAl 3 or Fe 4 Al 13 and Fe 2 Al 5 or Fe 2 Al 5+x. Surface and Coatings Technology, 2017, 324, 419-428.	2.2	45
66	Identification of É› martensite in a Fe-based shape memory alloy by means of EBSD. Micron, 2009, 40, 151-156.	1.1	44
67	Strain-induced selective growth in an ultra low carbon steel after a small rolling reduction. Acta Materialia, 2003, 51, 1679-1690.	3.8	43
68	Evolution of plastic deformation in heavily deformed and recrystallized tungsten of ITER specification studied by TEM. International Journal of Refractory Metals and Hard Materials, 2017, 66, 105-115.	1.7	41
69	In Situ Scanning Tunneling Microscopy Study of Grain-Dependent Corrosion on Microcrystalline Copper. Journal of Physical Chemistry C, 2014, 118, 25421-25428.	1.5	36
70	Critical assessment of the evaluation of thermal desorption spectroscopy data for duplex stainless steels: A combined experimental and numerical approach. Acta Materialia, 2020, 186, 190-198.	3.8	36
71	In situ scanning tunneling microscopy study of the intergranular corrosion of copper. Electrochemistry Communications, 2014, 41, 1-4.	2.3	34
72	Effects of ceria nanoparticle concentrations on the morphology and corrosion resistance of ceriumâ€“silane hybrid coatings on electro-galvanized steel substrates. Materials Chemistry and Physics, 2014, 145, 450-460.	2.0	34

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73	Influence of experimental parameters on thermal desorption spectroscopy measurements during evaluation of hydrogen trapping. Journal of Nuclear Materials, 2014, 450, 32-41.	1.3	34
74	Influence of sample geometry and microstructure on the hydrogen induced cracking characteristics under uniaxial load. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 88-95.	2.6	34
75	Assessment of the potential of hydrogen plasma charging as compared to conventional electrochemical hydrogen charging on dual phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 613-621.	2.6	33
76	Correlation Between Microstructure, Texture, and Magnetic Induction in Nonoriented Electrical Steels. IEEE Transactions on Magnetics, 2010, 46, 310-313.	1.2	32
77	The impact of hydrogen on the ductility loss of bainitic Feâ€“C alloys. Materials Science and Technology, 2016, 32, 1625-1631.	0.8	31
78	Virus Removal by Biogenic Cerium. Environmental Science & Technology, 2010, 44, 6350-6356.	4.6	30
79	Origin and sedimentation of Cu-droplets sticking to spinel solids in pyrometallurgical slags. Materials Science and Technology, 2016, 32, 1911-1924.	0.8	30
80	Hydrogen permeation through deformed and heat-treated Armco pure iron. Materials Science and Technology, 2017, 33, 1515-1523.	0.8	29
81	Use of filtration techniques to study environmental fate of engineered metallic nanoparticles: Factors affecting filter performance. Journal of Hazardous Materials, 2017, 322, 105-117.	6.5	28
82	Optimization of the in Situ Pretreatment of High Temperature Niâ€“Cr Alloys for Ethane Steam Cracking. Industrial & Engineering Chemistry Research, 2017, 56, 1424-1438.	1.8	28
83	Adsorption of As(III) versus As(V) from aqueous solutions by cerium-loaded volcanic rocks. Environmental Science and Pollution Research, 2017, 24, 20446-20458.	2.7	28
84	Effect of the Addition of P on the Mechanical Properties of Low Alloyed TRIP Steels. ISIJ International, 2006, 46, 1251-1257.	0.6	27
85	Investigating liquid-metal embrittlement of T91 steel by fracture toughness tests. Journal of Nuclear Materials, 2016, 472, 171-177.	1.3	27
86	Local passivation of metals at grain boundaries: In situ scanning tunneling microscopy study on copper. Corrosion Science, 2016, 111, 659-666.	3.0	27
87	Fabrication of Microporous Coatings on Titanium Implants with Improved Mechanical, Antibacterial, and Cell-Interactive Properties. ACS Applied Materials & Interfaces, 2020, 12, 30155-30169.	4.0	27
88	The Effect of Microstructural Characteristics on the Hydrogen Permeation Transient in Quenched and Tempered Martensitic Alloys. Metals, 2018, 8, 779.	1.0	26
89	Understanding the Interaction between a Steel Microstructure and Hydrogen. Materials, 2018, 11, 698.	1.3	26
90	Secondary treated domestic wastewater in reverse electrodialysis: What is the best pre-treatment?. Separation and Purification Technology, 2019, 218, 25-42.	3.9	26

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91	A comparison between chemical cleaning efficiency in lab-scale and full-scale reverse osmosis membranes: Role of extracellular polymeric substances (EPS). Journal of Membrane Science, 2020, 609, 118189.	4.1	26
92	Combinatorial effects of coral addition and plasma treatment on the properties of chitosan/polyethylene oxide nanofibers intended for bone tissue engineering. Carbohydrate Polymers, 2021, 253, 117211.	5.1	26
93	Quantification of the amount of É› martensite in a Feâ€“Mnâ€“Siâ€“Crâ€“Ni shape memory alloy by means of electron backscatter diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 471-475.	2.6	25
94	Characterization of the Austenite Recrystallization by Comparing Double Deformation and Stress Relaxation Tests. Steel Research International, 2010, 81, 234-244.	1.0	25
95	Influence of sintering conditions in the preparation of acetate-based fluorine-free CSD YBCO films using a direct sintering method. Materials Research Bulletin, 2012, 47, 4376-4382.	2.7	25
96	Fate of engineered nanomaterials in surface water: Factors affecting interactions of Ag and CeO2 nanoparticles with (re)suspended sediments. Ecological Engineering, 2015, 80, 140-150.	1.6	25
97	Removal of Arsenic (V) from Aqueous Solutions Using Chitosanâ€“Red Scoria and Chitosanâ€“Pumice Blends. International Journal of Environmental Research and Public Health, 2017, 14, 895.	1.2	25
98	Thermal desorption spectroscopy study of the hydrogen trapping ability of W based precipitates in a Q&T matrix. International Journal of Hydrogen Energy, 2018, 43, 5760-5769.	3.8	25
99	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters â€“ Part I â€“ The entry side. Electrochimica Acta, 2018, 262, 57-65.	2.6	25
100	Effect of annealing on microstructure, texture and hardness of ITER-specification tungsten analyzed by EBSD, vickers micro-hardness and nano-indentation techniques. Journal of Nuclear Materials, 2019, 524, 191-199.	1.3	24
101	The effect of a constant tensile load on the hydrogen diffusivity in dual phase steel by electrochemical permeation experiments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138872.	2.6	24
102	Investigation of Ag/a-C:H Nanocomposite Coatings on Titanium for Orthopedic Applications. ACS Applied Materials & Interfaces, 2020, 12, 23655-23666.	4.0	24
103	Effect of niobium on the microstructure and mechanical properties of hot rolled microalloyed steels after recrystallization-controlled rolling. Metals and Materials International, 2012, 18, 37-46.	1.8	23
104	Experimental study on the contact angle formation of solidified ironâ€“chromium droplets onto yttria ceramic substrates for the yttria/ferrous alloy system with variable chromium content. Ceramics International, 2014, 40, 2187-2200.	2.3	23
105	EBSD characterization of hydrogen induced blisters and internal cracks in TRIP-assisted steel. Materials Characterization, 2020, 159, 110029.	1.9	23
106	Re-evaluation of the Ibeâ€“LÃ¼cke growth selection experiment in a Feâ€“Si single crystal. Acta Materialia, 2005, 53, 2675-2682.	3.8	22
107	Effect of Hot and Cold Rolling on Grain Size and Texture in Fe-2.4wt%Si Strips. IEEE Transactions on Magnetics, 2008, 44, 3820-3823.	1.2	22
108	An infrared spectroscopic study of sodium silicate adsorption on porous anodic alumina. Surface and Interface Analysis, 2013, 45, 1098-1104.	0.8	22

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109	The role of titanium and vanadium based precipitates on hydrogen induced degradation of ferritic materials. Materials Characterization, 2018, 144, 22-34.	1.9	22
110	Critical verification of the Kissinger theory to evaluate thermal desorption spectra. International Journal of Hydrogen Energy, 2021, 46, 39590-39606.	3.8	22
111	Nanoscale Intergranular Corrosion and Relation with Grain Boundary Character as Studied In Situ on Copper. Journal of the Electrochemical Society, 2018, 165, C835-C841.	1.3	21
112	Evaluation of the hydrogen embrittlement susceptibility in DP steel under static and dynamic tensile conditions. International Journal of Impact Engineering, 2019, 123, 118-125.	2.4	21
113	Grain boundary passivation studied by in situ scanning tunneling microscopy on microcrystalline copper. Journal of Solid State Electrochemistry, 2015, 19, 3501-3509.	1.2	20
114	Investigation of High-Temperature Slag/Copper/Spinel Interactions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3421-3434.	1.0	20
115	Atom probe tomography of intermetallic phases and interfaces formed in dissimilar joining between Al alloys and steel. Materials Characterization, 2016, 120, 268-272.	1.9	20
116	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters â€“ Part II â€“ The exit side. Electrochimica Acta, 2018, 262, 153-161.	2.6	20
117	Effect of Zn on the grain boundary precipitates and resulting alkaline etching of recycled Al-Mg-Si-Cu alloys. Journal of Alloys and Compounds, 2019, 794, 435-442.	2.8	20
118	Microstructural characterization and mechanical behavior during recrystallization annealing of Nb-stabilized type ASTM 430 and Nb-Ti-stabilized ASTM 439 ferritic stainless steels. Journal of Materials Research and Technology, 2019, 8, 4048-4065.	2.6	19
119	Correlation of microstructural and mechanical properties of K-doped tungsten fibers used as reinforcement of tungsten matrix for high temperature applications. International Journal of Refractory Metals and Hard Materials, 2019, 79, 204-216.	1.7	19
120	Hydrogen-assisted cracking in 2205 duplex stainless steel: Initiation, propagation and interaction with deformation-induced martensite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140079.	2.6	19
121	Biological activity and antimicrobial property of Cu/a-C:H nanocomposites and nanolayered coatings on titanium substrates. Materials Science and Engineering C, 2021, 119, 111513.	3.8	19
122	Evaluation of the Austenite Recrystallization by Multideformation and Double Deformation Tests. Steel Research International, 2011, 82, 369-378.	1.0	18
123	Diffusion driven columnar grain growth induced in an Alâ€“Si-coated steel substrate. Surface and Coatings Technology, 2014, 251, 15-20.	2.2	18
124	Wetting behaviour of Cu based alloys on spinel substrates in pyrometallurgical context. Materials Science and Technology, 2015, 31, 1925-1933.	0.8	18
125	The effect of hydrostatic stress on the hydrogen induced mechanical degradation of dual phase steel: A combined experimental and numerical approach. Engineering Fracture Mechanics, 2019, 221, 106704.	2.0	18
126	Corrosion behaviour of different steel types in artificial geothermal fluids. Geothermics, 2019, 82, 182-189.	1.5	18

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127	Electrochemical oxidation of 1,4â€dioxane at boronâ€doped diamond electrode. Journal of Chemical Technology and Biotechnology, 2010, 85, 1162-1167.	1.6	17
128	Selfâ€healing silane coatings of cerium salt activated nanoparticles. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 693-701.	0.8	17
129	Platinum recovery from industrial process streams by halophilic bacteria: Influence of salt species and platinum speciation. Water Research, 2016, 105, 436-443.	5.3	17
130	Development of an Electrochemical Procedure for Monitoring Hydrogen Sorption/Desorption in Steel. Journal of the Electrochemical Society, 2017, 164, C747-C757.	1.3	17
131	Influence of electrochemical hydrogenation parameters on microstructures prone to hydrogen-induced cracking. Journal of Natural Gas Science and Engineering, 2022, 101, 104533.	2.1	17
132	Cobalt removal from wasteâ€water by means of supported liquid membranes. Journal of Chemical Technology and Biotechnology, 2009, 84, 711-715.	1.6	16
133	Microstructure of hot dip coated Feâ€“Si steels. Thin Solid Films, 2011, 520, 1638-1644.	0.8	16
134	Study of the hydrogen uptake in deformed steel using the microcapillary cell technique. Corrosion Science, 2019, 155, 55-66.	3.0	16
135	Electrochemical Hydrogen Charging of Duplex Stainless Steel. Corrosion, 2019, 75, 880-887.	0.5	16
136	Stresses related to the shape memory effect in Feâ€“Mnâ€“Si-based shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 183-189.	2.6	15
137	Effect of Hot and Cold Rolling on Grain Size and Texture in Fe-Si Strips with Si-Content Larger than 2 wt%. Materials Science Forum, 2010, 638-642, 3561-3566.	0.3	15
138	Controlled crystal orientation in fluorine-free superconducting YBa2Cu3O7â^'Î´ films. Materials Chemistry and Physics, 2012, 133, 998-1002.	2.0	15
139	Thermal desorption spectroscopy study of experimental Ti/S containing steels. Materials Science and Technology, 2013, 29, 261-267.	0.8	15
140	Study of the electrochemical behaviour of aluminized steel. Surface and Coatings Technology, 2014, 260, 34-38.	2.2	15
141	Advances in the development of corrosion and creep resistant nano-yttria dispersed ferritic/martensitic alloys using the rapid solidification processing technique. Ceramics International, 2014, 40, 14319-14334.	2.3	15
142	Phase field modelling of the attachment of metallic droplets to solid particles in liquid slags: Influence of interfacial energies and slag supersaturation. Computational Materials Science, 2015, 108, 348-357.	1.4	15
143	Study of the Effect of Spinel Composition on Metallic Copper Losses in Slags. Journal of Sustainable Metallurgy, 2017, 3, 416-427.	1.1	15
144	Hydrogen induced mechanical degradation in tungsten alloyed steels. Materials Characterization, 2018, 136, 84-93.	1.9	15

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145	First observation by EBSD of martensitic transformations due to hydrogen presence during straining of duplex stainless steel. Materials Characterization, 2019, 156, 109843.	1.9	15
146	Evolution of the microstructural surface characteristics during annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 312-316.	2.6	14
147	Influence of grain size on the electrochemical behavior of pure copper. Journal of Materials Science, 2017, 52, 1501-1510.	1.7	14
148	The effect of hydrogen on the crack initiation site of TRIP-assisted steels during in-situ hydrogen plasma micro-tensile testing: Leading to an improved ductility?. Materials Characterization, 2020, 167, 110493.	1.9	14
149	Microalgae: a sustainable adsorbent with high potential for upconcentration of indium(<scp>iii</scp>) from liquid process and waste streams. Green Chemistry, 2020, 22, 1985-1995.	4.6	14
150	The effect of quench cracks and retained austenite on the hydrogen trapping capacity of high carbon martensitic steels. International Journal of Hydrogen Energy, 2021, 46, 16141-16152.	3.8	14
151	Innovative processing for improved electrical steel properties. Revista De Metalurgia, 2010, 46, 458-468.	0.1	14
152	Dislocation-mediated trapping of deuterium in tungsten under high-flux high-temperature exposures. Journal of Nuclear Materials, 2016, 479, 307-315.	1.3	13
153	Sessile drop evaluation of high temperature copper/spinel and slag/spinel interactions. Transactions of Nonferrous Metals Society of China, 2016, 26, 2770-2783.	1.7	13
154	Fracture behavior of tungsten-based composites exposed to steady-state/transient hydrogen plasma. Nuclear Fusion, 2020, 60, 046029.	1.6	13
155	The influence of concretion on the long-term corrosion rate of steel shipwrecks in the Belgian North Sea. Corrosion Engineering Science and Technology, 2021, 56, 71-80.	0.7	13
156	Local Strain Heterogeneities after Cold Rolling of an Ultra Low Carbon Steel. Materials Science Forum, 2002, 408-412, 559-564.	0.3	12
157	Recrystallization Behaviour of an Austenitic High Mn Steel. Materials Science Forum, 2007, 558-559, 137-142.	0.3	12
158	Effect of Carbon on the Shape Memory Mechanism in FeMnSiCrNi SMAs. ISIJ International, 2007, 47, 723-732.	0.6	12
159	Correlation between the Magnetic Properties and the Crystallographic Texture during the Processing of Non Oriented Electrical Steel. Solid State Phenomena, 0, 160, 189-194.	0.3	12
160	Soft Dentin Results in Unique Flexible Teeth in Scraping Catfishes. Physiological and Biochemical Zoology, 2012, 85, 481-490.	0.6	12
161	Structural dependence of gold deposition by nanoplating in polycrystalline copper. Journal of Materials Science, 2014, 49, 3909-3916.	1.7	12
162	Uptake of arsenate by aluminum (hydr)oxide coated red scoria and pumice. Applied Geochemistry, 2017, 78, 83-95.	1.4	12

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163	Deformation induced degradation of hot-dip aluminized steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 710, 385-391.	2.6	12
164	Effect of Long-Term High Temperature Oxidation on the Coking Behavior of Ni-Cr Superalloys. Materials, 2018, 11, 1899.	1.3	12
165	FeS Corrosion Products Formation and Hydrogen Uptake in a Sour Environment for Quenched & Tempered Steel. Metals, 2018, 8, 62.	1.0	12
166	Basic Oxygen Furnace: Assessment of Recent Physicochemical Models. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2647-2666.	1.0	12
167	Combined in situ microstructural study of the relationships between local grain boundary structure and passivation on microcrystalline copper. Electrochimica Acta, 2019, 305, 240-246.	2.6	12
168	Effect of environmental and internal hydrogen on the hydrogen assisted cracking behavior of TRIP-assisted steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 437-444.	2.6	12
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