

Kim Verbeken

List of Publications by Year in descending order

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283
papers

8,860
citations

34016

52
h-index

62479

80
g-index

285
all docs

285
docs citations

285
times ranked

6803
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the effect of carbon on the reversible hydrogen trapping behavior in lab-cast martensitic Fe C steels. <i>Materials Characterization</i> , 2022, 184, 111671.	1.9	12
2	Fundamental and Formation Aspects of Slag Freeze Linings: A Review. <i>Journal of Sustainable Metallurgy</i> , 2022, 8, 64-90.	1.1	3
3	Use of existing steel pipeline infrastructure for gaseous hydrogen storage and transport: A review of factors affecting hydrogen induced degradation. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104534.	2.1	62
4	Influence of electrochemical hydrogenation parameters on microstructures prone to hydrogen-induced cracking. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104533.	2.1	17
5	Optimization of heat exchanger design taking corrosion into account. <i>Thermal Science and Engineering Progress</i> , 2022, 30, 101277.	1.3	3
6	The addition of aluminum to brittle martensitic steels in order to increase ductility by forming a grain boundary ferritic microfilm. <i>Scripta Materialia</i> , 2022, 213, 114606.	2.6	7
7	Hydrogen Stress Cracking Resistance and Hydrogen Transport Properties of ASTM A508 Grade 4N. <i>Corrosion</i> , 2022, 78, 96-111.	0.5	1
8	Towards more realistic simulations of microstructural evolution in oxidic systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 77, 102402.	0.7	1
9	Neutron diffraction analysis of martensite ageing in high-carbon FeCMnSi steel. <i>International Journal of Materials Research</i> , 2022, 97, 1123-1129.	0.1	1
10	The effect of an Al-induced ferritic microfilm on the hydrogen embrittlement mechanism in martensitic steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, , 143587.	2.6	2
11	Critical Assessment of the Applicability of the Foaming Index to the Industrial Basic Oxygen Steelmaking Process. <i>Steel Research International</i> , 2021, 92, 2000282.	1.0	7
12	Influence of displacement rate and temperature on the severity of liquid metal embrittlement of T91 steel in LBE. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140259.	2.6	12
13	Biological activity and antimicrobial property of Cu/a-C:H nanocomposites and nanolayered coatings on titanium substrates. <i>Materials Science and Engineering C</i> , 2021, 119, 111513.	3.8	19
14	The influence of concretion on the long-term corrosion rate of steel shipwrecks in the Belgian North Sea. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 71-80.	0.7	13
15	Combinatorial effects of coral addition and plasma treatment on the properties of chitosan/polyethylene oxide nanofibers intended for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2021, 253, 117211.	5.1	26
16	Effect of speciation and composition on the kinetics and precipitation of arsenic sulfide from industrial metallurgical wastewater. <i>Journal of Hazardous Materials</i> , 2021, 409, 124418.	6.5	49
17	Mechanistic interpretation on acidic stress-corrosion cracking of NiCrMoV steam turbine steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140433.	2.6	6
18	The Key Role of Dedicated Experimental Methodologies in Revealing the Interaction Between Hydrogen and the Steel Microstructure. <i>Advanced Structured Materials</i> , 2021, , 59-85.	0.3	0

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19	Assessment of the hydrogen interaction on the mechanical integrity of a welded martensitic steel. <i>Materials Science and Technology</i> , 2021, 37, 250-257.	0.8	1
20	The Potential of the Internal Friction Technique to Evaluate the Role of Vacancies and Dislocations in the Hydrogen Embrittlement of Steels. <i>Steel Research International</i> , 2021, 92, 2100037.	1.0	7
21	An interdisciplinary framework to predict premature roller element bearing failures in wind turbine gearboxes. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2021, 85, 229-240.	1.0	1
22	Determination of the $\text{Fe}_3\text{O}_4/\text{Fe}$ Ratio in Synthetic Lead Silicate Slags Using X-Band CW-EPR. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 519-536.	1.1	4
23	The effect of quench cracks and retained austenite on the hydrogen trapping capacity of high carbon martensitic steels. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16141-16152.	3.8	14
24	Evaluating the Hydrogen Embrittlement Susceptibility of Aged 2205 Duplex Stainless Steel Containing Brittle Sigma Phase. <i>Steel Research International</i> , 2021, 92, 2000693.	1.0	0
25	Impact of hydrogen and crosshead displacement rate on the martensitic transformations and mechanical properties of 304L stainless steel. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 113, 102952.	2.1	4
26	Vapor Explosions: Modeling and Experimental Analysis in Both Small- and Large-Scale Setups: A Review. <i>Jom</i> , 2021, 73, 3046-3063.	0.9	6
27	Effect of Phosphine on Coke Formation during Steam Cracking of Propane. <i>Materials</i> , 2021, 14, 5075.	1.3	1
28	Heat Transfer Considerations on the Spontaneous Triggering of Vapor Explosions – A Review. <i>Metals</i> , 2021, 11, 55.	1.0	7
29	Towards More Reliable PbO-SiO_2 Based Slag Viscosity Measurements in Alumina via a Dense Intermediate Spinel Layer. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3646-3659.	1.0	3
30	Critical verification of the Kissinger theory to evaluate thermal desorption spectra. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39590-39606.	3.8	22
31	Antibacterial activity of a porous silver doped TiO ₂ coating on titanium substrates synthesized by plasma electrolytic oxidation. <i>Applied Surface Science</i> , 2020, 500, 144235.	3.1	95
32	Critical assessment of the evaluation of thermal desorption spectroscopy data for duplex stainless steels: A combined experimental and numerical approach. <i>Acta Materialia</i> , 2020, 186, 190-198.	3.8	36
33	The effect of a constant tensile load on the hydrogen diffusivity in dual phase steel by electrochemical permeation experiments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138872.	2.6	24
34	EBSD characterization of hydrogen induced blisters and internal cracks in TRIP-assisted steel. <i>Materials Characterization</i> , 2020, 159, 110029.	1.9	23
35	Hydrogen-assisted cracking in 2205 duplex stainless steel: Initiation, propagation and interaction with deformation-induced martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 140079.	2.6	19
36	Qualification of the in-situ bending technique towards the evaluation of the hydrogen induced fracture mechanism of martensitic Fe-C steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139754.	2.6	10

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37	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?. <i>Materials Characterization</i> , 2020, 167, 110493.	1.9	14
38	Catalytic Effect of Dimethyl Disulfide on Coke Formation on High-Temperature Alloys: Myth or Reality?. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15165-15178.	1.8	6
39	Effect of Film-Forming Amines on the Acidic Stress-Corrosion Cracking Resistance of Steam Turbine Steel. <i>Metals</i> , 2020, 10, 1628.	1.0	5
40	Investigation of Ag/a-C:H Nanocomposite Coatings on Titanium for Orthopedic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23655-23666.	4.0	24
41	A comparison between chemical cleaning efficiency in lab-scale and full-scale reverse osmosis membranes: Role of extracellular polymeric substances (EPS). <i>Journal of Membrane Science</i> , 2020, 609, 118189.	4.1	26
42	Evaluation of the active mechanism for acidic SCC induced mechanical degradation: A methodological approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 790, 139645.	2.6	4
43	Fabrication of Microporous Coatings on Titanium Implants with Improved Mechanical, Antibacterial, and Cell-Interactive Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30155-30169.	4.0	27
44	EBSD characterization of pure and K-doped tungsten fibers annealed at different temperatures. <i>Journal of Nuclear Materials</i> , 2020, 537, 152201.	1.3	7
45	Three mechanisms of hydrogen-induced dislocation pinning in tungsten. <i>Nuclear Fusion</i> , 2020, 60, 086015.	1.6	12
46	Quantification of the Fe ³⁺ concentration in lead silicate glasses using X-band CW-EPR. <i>Journal of Non-Crystalline Solids</i> , 2020, 536, 120002.	1.5	11
47	Microalgae: a sustainable adsorbent with high potential for upconcentration of indium(ⁱⁱⁱ) from liquid process and waste streams. <i>Green Chemistry</i> , 2020, 22, 1985-1995.	4.6	14
48	Thermal desorption spectroscopy evaluation of hydrogen-induced damage and deformation-induced defects. <i>Materials Science and Technology</i> , 2020, 36, 1389-1397.	0.8	10
49	Fracture behavior of tungsten-based composites exposed to steady-state/transient hydrogen plasma. <i>Nuclear Fusion</i> , 2020, 60, 046029.	1.6	13
50	Microstructural based hydrogen diffusion and trapping models applied to Fe-C-X alloys. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154057.	2.8	50
51	Mechanical degradation of Fe-C-X steels by acidic stress-corrosion cracking. <i>Corrosion Science</i> , 2020, 167, 108509.	3.0	5
52	Calibrating a ductile damage model for two pipeline steels: method and challenges. <i>Procedia Structural Integrity</i> , 2020, 28, 2267-2276.	0.3	3
53	Microstructural characterization and mechanical behavior during recrystallization annealing of Nb-stabilized type ASTM 430 and Nb-Ti-stabilized ASTM 439 ferritic stainless steels. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4048-4065.	2.6	19
54	Evolution of microstructure, texture and grain boundary character distribution of potassium doped tungsten fibers annealed at variable temperatures. <i>Journal of Physics: Conference Series</i> , 2019, 1270, 012038.	0.3	3

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55	First observation by EBSD of martensitic transformations due to hydrogen presence during straining of duplex stainless steel. <i>Materials Characterization</i> , 2019, 156, 109843.	1.9	15
56	Electrochemical hydrogen charging to simulate hydrogen flaking in pressure vessel steels. <i>Engineering Fracture Mechanics</i> , 2019, 217, 106546.	2.0	7
57	Organic Matter and Microbial Cell Density Behavior during Ion Exchange Demineralization of Surface Water for Boiler Feedwater. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14368-14379.	1.8	8
58	Effect of annealing on microstructure, texture and hardness of ITER-specification tungsten analyzed by EBSD, vickers micro-hardness and nano-indentation techniques. <i>Journal of Nuclear Materials</i> , 2019, 524, 191-199.	1.3	24
59	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. <i>Separation and Purification Technology</i> , 2019, 228, 115793.	3.9	50
60	The effect of hydrostatic stress on the hydrogen induced mechanical degradation of dual phase steel: A combined experimental and numerical approach. <i>Engineering Fracture Mechanics</i> , 2019, 221, 106704.	2.0	18
61	Basic Oxygen Furnace: Assessment of Recent Physicochemical Models. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2647-2666.	1.0	12
62	Evaluation of a Tiâ€“Base Alloy as Steam Cracking Reactor Material. <i>Materials</i> , 2019, 12, 2550.	1.3	4
63	Secondary treated domestic wastewater in reverse electrodialysis: What is the best pre-treatment?. <i>Separation and Purification Technology</i> , 2019, 218, 25-42.	3.9	26
64	Dialdehyde carboxymethyl cellulose cross-linked chitosan for the recovery of palladium and platinum from aqueous solution. <i>Reactive and Functional Polymers</i> , 2019, 141, 145-154.	2.0	47
65	Corrosion behaviour of different steel types in artificial geothermal fluids. <i>Geothermics</i> , 2019, 82, 182-189.	1.5	18
66	Numerical interpretation to differentiate hydrogen trapping effects in iron alloys in the Devanathan-Stachurski permeation cell. <i>Corrosion Science</i> , 2019, 154, 231-238.	3.0	10
67	Effect of Zn on the grain boundary precipitates and resulting alkaline etching of recycled Al-Mg-Si-Cu alloys. <i>Journal of Alloys and Compounds</i> , 2019, 794, 435-442.	2.8	20
68	Study of the hydrogen uptake in deformed steel using the microcapillary cell technique. <i>Corrosion Science</i> , 2019, 155, 55-66.	3.0	16
69	Functionalized chitosan adsorbents allow recovery of palladium and platinum from acidic aqueous solutions. <i>Green Chemistry</i> , 2019, 21, 2295-2306.	4.6	81
70	Effect of the shear layer on the etching behavior of 6060 aluminum extrusion alloys. <i>Surface and Interface Analysis</i> , 2019, 51, 1251-1259.	0.8	2
71	Model-based interpretation of thermal desorption spectra of Fe-C-Ti alloys. <i>Journal of Alloys and Compounds</i> , 2019, 789, 647-657.	2.8	47
72	Combined in situ microstructural study of the relationships between local grain boundary structure and passivation on microcrystalline copper. <i>Electrochimica Acta</i> , 2019, 305, 240-246.	2.6	12

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73	Micromechanical and microstructural properties of tungsten fibers in the as-produced and annealed state: Assessment of the potassium doping effect. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 81, 253-271.	1.7	8
74	Assessment of the potential of hydrogen plasma charging as compared to conventional electrochemical hydrogen charging on dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 613-621.	2.6	33
75	Corrosion and corrosion prevention in heat exchangers. <i>Corrosion Reviews</i> , 2019, 37, 131-155.	1.0	78
76	Electrochemical Hydrogen Charging of Duplex Stainless Steel. <i>Corrosion</i> , 2019, 75, 880-887.	0.5	16
77	The Hydrogen Induced Mechanical Degradation of Duplex Stainless Steel. <i>Steel Research International</i> , 2019, 90, 1800451.	1.0	5
78	Correlation of microstructural and mechanical properties of K-doped tungsten fibers used as reinforcement of tungsten matrix for high temperature applications. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 79, 204-216.	1.7	19
79	Effect of environmental and internal hydrogen on the hydrogen assisted cracking behavior of TRIP-assisted steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 437-444.	2.6	12
80	Evaluation of the hydrogen embrittlement susceptibility in DP steel under static and dynamic tensile conditions. <i>International Journal of Impact Engineering</i> , 2019, 123, 118-125.	2.4	21
81	Thermal desorption spectroscopy study of the hydrogen trapping ability of W based precipitates in a Q&T matrix. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5760-5769.	3.8	25
82	Nano-hardness, EBSD analysis and mechanical behavior of ultra-fine grain tungsten for fusion applications as plasma facing material. <i>Surface and Coatings Technology</i> , 2018, 355, 252-258.	2.2	9
83	Determination of the equivalent hydrogen fugacity during electrochemical charging of 3.5NiCrMoV steel. <i>Corrosion Science</i> , 2018, 132, 90-106.	3.0	55
84	The detrimental effect of hydrogen at dislocations on the hydrogen embrittlement susceptibility of Fe-C-X alloys: An experimental proof of the HELP mechanism. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3050-3061.	3.8	140
85	Hydrogen induced mechanical degradation in tungsten alloyed steels. <i>Materials Characterization</i> , 2018, 136, 84-93.	1.9	15
86	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters – Part I – The entry side. <i>Electrochimica Acta</i> , 2018, 262, 57-65.	2.6	25
87	Modelling of hydrogen permeation experiments in iron alloys: Characterization of the accessible parameters – Part II – The exit side. <i>Electrochimica Acta</i> , 2018, 262, 153-161.	2.6	20
88	Organic Matter Composition More Important than Concentration in Ion Exchange Demineralization of Different Water Qualities for the Production of Steam. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3742-3752.	1.8	6
89	Deformation induced degradation of hot-dip aluminized steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 710, 385-391.	2.6	12
90	Phase-Field Modelling in Extractive Metallurgy. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 417-454.	6.8	9

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91	Metal Droplet Entrainment by Solid Particles in Slags: An Experimental Approach. Journal of Sustainable Metallurgy, 2018, 4, 15-32.	1.1	9
92	Metal losses in pyrometallurgical operations - A review. Advances in Colloid and Interface Science, 2018, 255, 47-63.	7.0	67
93	Influence of rigid body motion on the attachment of metallic droplets to solid particles in liquid slags: A phase field study. Minerals and Metallurgical Processing, 2018, 35, 87-97.	0.7	0
94	The hydrogen trapping ability of TiC and V ₄ C ₃ by thermal desorption spectroscopy and permeation experiments. Procedia Structural Integrity, 2018, 13, 1414-1420.	0.3	5
95	Evaluation of blistered and cold deformed ULC steel with melt extraction and thermal desorption spectroscopy. Procedia Structural Integrity, 2018, 13, 1330-1335.	0.3	0
96	Effect of Long-Term High Temperature Oxidation on the Coking Behavior of Ni-Cr Superalloys. Materials, 2018, 11, 1899.	1.3	12
97	The Effect of Microstructural Characteristics on the Hydrogen Permeation Transient in Quenched and Tempered Martensitic Alloys. Metals, 2018, 8, 779.	1.0	26
98	Effect of strain rate on the hydrogen embrittlement of a DP steel. EPJ Web of Conferences, 2018, 183, 03015.	0.1	3
99	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
100	The role of titanium and vanadium based precipitates on hydrogen induced degradation of ferritic materials. Materials Characterization, 2018, 144, 22-34.	1.9	22
101	Electrochemical and Mechanical Aspects of Hydrogen Embrittlement Evaluation of Martensitic Steels. , 2018, , 201-225.		4
102	FeS Corrosion Products Formation and Hydrogen Uptake in a Sour Environment for Quenched & Tempered Steel. Metals, 2018, 8, 62.	1.0	12
103	Understanding the Interaction between a Steel Microstructure and Hydrogen. Materials, 2018, 11, 698.	1.3	26
104	Comparison of Electrochemical and Thermal Evaluation of Hydrogen Uptake in Steel Alloys Having Different Microstructures. Journal of the Electrochemical Society, 2018, 165, C787-C793.	1.3	10
105	Impact of plastic deformation on retention under pure D or He high flux plasma expose. Nuclear Materials and Energy, 2018, 15, 48-54.	0.6	1
106	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
107	Effect of deformation and charging conditions on crack and blister formation during electrochemical hydrogen charging. Acta Materialia, 2017, 127, 192-202.	3.8	86
108	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

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109	Optimization of the in Situ Pretreatment of High Temperature Ni-Cr Alloys for Ethane Steam Cracking. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1424-1438.	1.8	28
110	Acrylate-based coatings to protect lead substrates. <i>Electrochimica Acta</i> , 2017, 229, 8-21.	2.6	6
111	Study of the Effect of Spinel Composition on Metallic Copper Losses in Slags. <i>Journal of Sustainable Metallurgy</i> , 2017, 3, 416-427.	1.1	15
112	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} . <i>Surface and Coatings Technology</i> , 2017, 324, 419-428.	2.2	45
113	Evolution of plastic deformation in heavily deformed and recrystallized tungsten of ITER specification studied by TEM. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 66, 105-115.	1.7	41
114	Effect of silicon on the microstructure and growth kinetics of intermetallic phases formed during hot-dip aluminizing of ferritic steel. <i>Surface and Coatings Technology</i> , 2017, 319, 104-109.	2.2	56
115	Uptake of arsenate by aluminum (hydr)oxide coated red scoria and pumice. <i>Applied Geochemistry</i> , 2017, 78, 83-95.	1.4	12
116	Development of an Electrochemical Procedure for Monitoring Hydrogen Sorption/Desorption in Steel. <i>Journal of the Electrochemical Society</i> , 2017, 164, C747-C757.	1.3	17
117	Investigation of Origin of Attached Cu-Ag Droplets to Solid Particles During High-Temperature Slag/Copper/Spinel Interactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 3058-3073.	1.0	10
118	Impact of Initial Surface Roughness and Aging on Coke Formation during Ethane Steam Cracking. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12495-12507.	1.8	10
119	Investigation of Reactive Origin for Attachment of Cu Droplets to Solid Particles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2459-2468.	1.0	6
120	Hydrogen permeation through deformed and heat-treated Armco pure iron. <i>Materials Science and Technology</i> , 2017, 33, 1515-1523.	0.8	29
121	Adsorption of As(III) versus As(V) from aqueous solutions by cerium-loaded volcanic rocks. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20446-20458.	2.7	28
122	Saturated long linear aliphatic chain sodium monocarboxylates for the corrosion inhibition of lead objects—an initiative towards the conservation of our lead cultural heritage. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 693-704.	1.2	6
123	Influence of grain size on the electrochemical behavior of pure copper. <i>Journal of Materials Science</i> , 2017, 52, 1501-1510.	1.7	14
124	Removal of Arsenic (V) from Aqueous Solutions Using Chitosan-Red Scoria and Chitosan-Pumice Blends. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 895.	1.2	25
125	Use of Local Electrochemical Methods (SECM, EC-STM) and AFM to Differentiate Microstructural Effects (EBSD) on Very Pure Copper. <i>Corrosion Science and Technology</i> , 2017, 16, 1-7.	0.2	2
126	Dislocation-mediated trapping of deuterium in tungsten under high-flux high-temperature exposures. <i>Journal of Nuclear Materials</i> , 2016, 479, 307-315.	1.3	13

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127	Self-healing silane coatings of cerium salt activated nanoparticles. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 693-701.	0.8	17
128	Investigating liquid-metal embrittlement of T91 steel by fracture toughness tests. <i>Journal of Nuclear Materials</i> , 2016, 472, 171-177.	1.3	27
129	On the synergy of diffusible hydrogen content and hydrogen diffusivity in the mechanical degradation of laboratory cast Fe-C alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 195-205.	2.6	62
130	Hydrogen trapping and hydrogen induced mechanical degradation in lab cast Fe-C-Cr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 134-149.	2.6	81
131	The effect of TiC on the hydrogen induced ductility loss and trapping behavior of Fe-C-Ti alloys. <i>Corrosion Science</i> , 2016, 112, 308-326.	3.0	139
132	Evaluation of the effect of V ₄ C ₃ precipitates on the hydrogen induced mechanical degradation in Fe-C-V alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 299-313.	2.6	82
133	Investigation of High-Temperature Slag/Copper/Spinel Interactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 3421-3434.	1.0	20
134	Internal and surface damage after electrochemical hydrogen charging for ultra low carbon steel with various degrees of recrystallization. <i>Procedia Structural Integrity</i> , 2016, 2, 541-548.	0.3	6
135	Platinum recovery from industrial process streams by halophilic bacteria: Influence of salt species and platinum speciation. <i>Water Research</i> , 2016, 105, 436-443.	5.3	17
136	Sessile drop evaluation of high temperature copper/spinel and slag/spinel interactions. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 2770-2783.	1.7	13
137	Effective use of transient vibration damping results for non-destructive measurements of fibre-matrix adhesion of fibre-reinforced flax and carbon composites. <i>Polymer Testing</i> , 2016, 55, 269-277.	2.3	11
138	Atom probe tomography of intermetallic phases and interfaces formed in dissimilar joining between Al alloys and steel. <i>Materials Characterization</i> , 2016, 120, 268-272.	1.9	20
139	Evaluation of the role of Mo ₂ C in hydrogen induced ductility loss in Q&T Fe C Mo alloys. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14310-14329.	3.8	64
140	Local passivation of metals at grain boundaries: In situ scanning tunneling microscopy study on copper. <i>Corrosion Science</i> , 2016, 111, 659-666.	3.0	27
141	Phase field simulation study of the attachment of metallic droplets to solid particles in liquid slags based on real slag-spinel micrographs. <i>Computational Materials Science</i> , 2016, 118, 269-278.	1.4	5
142	Study of the influence of the microstructure on the corrosion properties of pure copper. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 847-856.	0.8	8
143	Physical, microstructural and mechanical study of isochronal annealing of deformed commercial iron. <i>Journal of Alloys and Compounds</i> , 2016, 656, 378-382.	2.8	3
144	Effect of the Cold Rolling Reduction on the Microstructural Characteristics and Mechanical Behavior of a 0.06% C-17%Mn TRIP/TWIP Steel. <i>Steel Research International</i> , 2016, 87, 95-106.	1.0	8

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145	Origin and sedimentation of Cu-droplets sticking to spinel solids in pyrometallurgical slags. <i>Materials Science and Technology</i> , 2016, 32, 1911-1924.	0.8	30
146	The impact of hydrogen on the ductility loss of bainitic Fe-C alloys. <i>Materials Science and Technology</i> , 2016, 32, 1625-1631.	0.8	31
147	Microstructural characterization of hydrogen induced cracking in TRIP-assisted steel by EBSD. <i>Materials Characterization</i> , 2016, 112, 169-179.	1.9	100
148	Fractographic analysis of the role of hydrogen diffusion on the hydrogen embrittlement susceptibility of DP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 201-208.	2.6	94
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