

# Frank Y Cheng

## List of Publications by Year in descending order

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265  
papers

13,002  
citations

15880

67  
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43601

95  
g-index

270  
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270  
docs citations

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times ranked

6088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an empirical model to predict the burst pressure of corroded elbows of pipelines by finite element modelling. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 195, 104602.	1.2	11
2	Hydrogen-induced degradation of high-strength steel pipeline welds: A critical review. <i>Engineering Failure Analysis</i> , 2022, 133, 105985.	1.8	37
3	A novel model for prediction of burst capacity of corroded pipelines subjected to combined loads of bending moment and axial compression. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 196, 104621.	1.2	9
4	Corrosion Resistance Mechanism of Mica-Graphene/Epoxy Composite Coating in CO <sub>2</sub> -Cl <sup>-</sup> System. <i>Materials</i> , 2022, 15, 1194.	1.3	1
5	Corrosion of steel in a CO <sub>2</sub> -containing solution droplet generated in wet gas pipelines studied by scanning Kelvin probe. <i>Journal of Pipeline Science and Engineering</i> , 2022, 2, 71-77.	2.4	7
6	Internal microbiologically influenced corrosion of natural gas pipelines: A critical review. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 102, 104581.	2.1	18
7	Electrochemical thermodynamics of stress corrosion of pipeline steel in active and passive environments studied by scanning Kelvin probe. <i>Corrosion Engineering Science and Technology</i> , 2022, 57, 363-370.	0.7	2
8	Corrosion inhibition behavior of X80 pipeline steel by imidazoline derivative in the CO <sub>2</sub> -saturated seawater containing sulfate-reducing bacteria with organic carbon starvation. <i>Corrosion Science</i> , 2022, 203, 110345.	3.0	24
9	N-doped carbon-coated Cu <sub>2</sub> O nanowire arrays on copper foam for rapid and stable water disinfection. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 761-773.	5.0	3
10	A new method for assessment of burst pressure capacity of corroded X80 steel pipelines containing a dent. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 199, 104742.	1.2	11
11	Interaction between internal and external defects on pipelines and its effect on failure pressure. <i>Thin-Walled Structures</i> , 2021, 159, 107230.	2.7	19
12	Numerical modeling of the critical pipeline inclination for the elimination of the water accumulation on the pipe floor in oil-water fluid flow. <i>Petroleum</i> , 2021, 7, 209-221.	1.3	4
13	Facile Li-Al layered double hydroxide films on Al alloy for enhanced hydrophobicity, anti-biofouling and anti-corrosion performance. <i>Journal of Materials Science and Technology</i> , 2021, 79, 230-242.	5.6	26
14	Modeling of mechano-electrochemical interaction between circumferentially aligned corrosion defects on pipeline under axial tensile stresses. <i>Journal of Petroleum Science and Engineering</i> , 2021, 198, 108160.	2.1	15
15	Modeling of mechano-electrochemical interaction at a corrosion defect on a suspended gas pipeline and the failure pressure prediction. <i>Thin-Walled Structures</i> , 2021, 160, 107404.	2.7	14
16	Investigating crevice corrosion of copper and copper alloys using wire beam electrode. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 407-418.	0.7	3
17	Mechano-electrochemical interaction for pipeline corrosion: A review. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 1-16.	2.4	33
18	A review on defect assessment of pipelines: Principles, numerical solutions, and applications. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 191, 104329.	1.2	30

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19	Modeling of mechanical behavior of corroded X80 steel pipeline reinforced with type-B repair sleeve. <i>Thin-Walled Structures</i> , 2021, 163, 107708.	2.7	18
20	Hydrogen permeation and distribution at a high-strength X80 steel weld under stressing conditions and the implication on pipeline failure. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23100-23112.	3.8	43
21	Assessment of Interaction Between a Dent and an Adjacent Corrosion Feature on Pipelines and the Effect on Pipeline Failure Pressure by Finite-Element Modeling. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	0.9	3
22	Assessment by finite element modelling of the mechano-electrochemical interaction at corrosion defect on elbows of oil/gas pipelines. <i>Ocean Engineering</i> , 2021, 234, 109228.	1.9	14
23	Modeling of the mechano-electrochemical effect at corrosion defect with varied inclinations on oil/gas pipelines. <i>Petroleum Science</i> , 2021, 18, 1520-1529.	2.4	10
24	Buckling resistance of an X80 steel pipeline at corrosion defect under bending moment. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 93, 104016.	2.1	13
25	Microstructural response and improving surface mechanical properties of pure copper subjected to laser shock peening. <i>Applied Surface Science</i> , 2021, 564, 150336.	3.1	26
26	A novel strain-based assessment method of compressive buckling of X80 corroded pipelines subjected to bending moment load. <i>Thin-Walled Structures</i> , 2021, 167, 108172.	2.7	14
27	Thermodynamics of spontaneous dissociation and dissociative adsorption of hydrogen molecules and hydrogen atom adsorption and absorption on steel under pipelining conditions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34469-34486.	3.8	37
28	Finite element modeling of corrosion defect growth and failure pressure prediction of pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 194, 104509.	1.2	22
29	Effect of uniaxial elastic stress on corrosion of X80 pipeline steel in an acidic soil solution containing sulfate-reducing bacteria trapped under disbonded coating. <i>Corrosion Science</i> , 2021, 193, 109893.	3.0	28
30	Corrosion Mechanism of L360 Pipeline Steel Coated with S8 in CO <sub>2</sub> -Cl <sup>-</sup> System at Different pH Values. <i>Metals</i> , 2021, 11, 1975.	1.0	3
31	Derivation of the mechanistic relationship of pit initiation on pipelines resulting from cathodic protection potential fluctuations. <i>Corrosion Science</i> , 2020, 163, 108226.	3.0	11
32	Modeling and analysis of a catastrophic oil spill and vapor cloud explosion in a confined space upon oil pipeline leaking. <i>Petroleum Science</i> , 2020, 17, 556-566.	2.4	13
33	Antifouling and antibacterial behaviors of capsaicin-based pH responsive smart coatings in marine environments. <i>Materials Science and Engineering C</i> , 2020, 108, 110361.	3.8	74
34	Preparation of (3-mercaptopropyl)trimethoxysilane film on brass and its corrosion resistance in natural seawater. <i>Progress in Organic Coatings</i> , 2020, 138, 105392.	1.9	19
35	Development mechanism of local corrosion pit in X80 pipeline steel under flow conditions. <i>Tribology International</i> , 2020, 146, 106145.	3.0	18
36	Investigation of microelectrochemical activities of oxide inclusions and microphases in duplex stainless steel and the implication on pitting corrosion. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 876-886.	0.8	19

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37	Corrosion of underground pipelines in clay soil with varied soil layer thicknesses and aerations. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3601-3614.	2.3	41
38	Visible light illuminated high-performance WO <sub>3</sub> -TiO <sub>2</sub> -BiVO <sub>4</sub> nanocomposite photoanodes capable of energy self-storage for photo-induced cathodic protection. <i>Corrosion Science</i> , 2020, 164, 108333.	3.0	48
39	Corrosion of pipelines under dynamic direct current interference. <i>Construction and Building Materials</i> , 2020, 261, 120550.	3.2	16
40	Modeling of local buckling of corroded X80 gas pipeline under axial compression loading. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103472.	2.1	26
41	Assessment by finite element modelling of the mechano-electrochemical interaction at double-ellipsoidal corrosion defect with varied inclinations on pipelines. <i>Construction and Building Materials</i> , 2020, 260, 120459.	3.2	18
42	Passivity degradation and photocorrosion of X52 carbon steel under visible light illumination in concentrated carbonate/bicarbonate solutions. <i>Corrosion Science</i> , 2020, 172, 108727.	3.0	8
43	Essential role of element Si in corrosion resistance of a bridge steel in chloride atmosphere. <i>Corrosion Science</i> , 2020, 173, 108758.	3.0	31
44	Corrosion of initial pits on abandoned X52 pipeline steel in a simulated soil solution containing sulfate-reducing bacteria. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7180-7189.	2.6	23
45	Effect of tensile stress on the hydrogen permeation of MS X65 pipeline steel under sulfide films. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12419-12431.	3.8	16
46	Failure pressure prediction by defect assessment and finite element modelling on natural gas pipelines under cyclic loading. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103445.	2.1	31
47	Microbial corrosion of initial perforation on abandoned pipelines in wet soil containing sulfate-reducing bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110899.	2.5	9
48	Downhole O <sub>2</sub> corrosion during air-assisted steam injection for secondary or tertiary oil recovery. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 189-195.	0.7	5
49	Review "Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. <i>Journal of the Electrochemical Society</i> , 2020, 167, 081507.	1.3	78
50	Development mechanism of internal local corrosion of X80 pipeline steel. <i>Journal of Materials Science and Technology</i> , 2020, 49, 186-201.	5.6	35
51	Local buckling failure analysis of high strength pipelines containing a plain dent under bending moment. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103266.	2.1	22
52	Modelling of mechano-electrochemical interaction at overlapped corrosion defects and the implication on pipeline failure prediction. <i>Engineering Structures</i> , 2020, 212, 110466.	2.6	22
53	Corrosion of X52 pipeline steel in a simulated soil solution with coexistence of <i>Desulfovibrio desulfuricans</i> and <i>Pseudomonas aeruginosa</i> bacteria. <i>Corrosion Science</i> , 2020, 173, 108753.	3.0	32
54	Investigation by numerical modeling of the mechano-electrochemical interaction of circumferentially aligned corrosion defects on pipelines. <i>Thin-Walled Structures</i> , 2019, 144, 106314.	2.7	34

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55	Unexpected cathodic role of Mg <sub>41</sub> Sm <sub>5</sub> phase in mitigating localized corrosion of extruded Mg-Sm-Zn-Zr alloy in NaCl solution. <i>Corrosion Science</i> , 2019, 159, 108133.	3.0	79
56	Water disinfection using Ag nanoparticle@CuO nanowire co-modified 3D copper foam nanocomposites in high flow under low voltages. <i>Environmental Science: Nano</i> , 2019, 6, 2801-2809.	2.2	18
57	Preparation of graphene nanoplate added zinc-rich epoxy coatings for enhanced sacrificial anode-based corrosion protection. <i>Corrosion Science</i> , 2019, 159, 108120.	3.0	75
58	Synergism of imidazoline and sodium dodecylbenzenesulphonate inhibitors on corrosion inhibition of X52 carbon steel in CO <sub>2</sub> -saturated chloride solutions. <i>Journal of Molecular Liquids</i> , 2019, 294, 111674.	2.3	47
59	Preparation of Co <sub>3</sub> O <sub>4</sub> @ZnO core-shell nanocomposites with intrinsic p-n junction as high-performance photoelectrodes for photoelectrochemical cathodic protection under visible light. <i>Applied Surface Science</i> , 2019, 476, 815-821.	3.1	57
60	Corrosion of X52 steel under thin layers of water condensate in wet gas pipelines. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 68, 102921.	2.1	21
61	Effect of O <sub>2</sub> on down-hole corrosion during air-assisted steam injection for heavy oil recovery. <i>Corrosion Engineering Science and Technology</i> , 2019, 54, 310-316.	0.7	4
62	Facile fabrication of hydrophobic polysiloxane coatings for protection of AZ31 magnesium alloy. <i>Journal of Materials Science</i> , 2019, 54, 9759-9774.	1.7	10
63	Modelling of mechano-electrochemical interaction of multiple longitudinally aligned corrosion defects on oil/gas pipelines. <i>Engineering Structures</i> , 2019, 190, 9-19.	2.6	33
64	Enhanced corrosion protection property of Li-Al layered double hydroxides (LDHs) film modified by 2-guanidinosuccinic acid with excellent self-repairing and self-antibacterial properties. <i>Applied Surface Science</i> , 2019, 480, 384-394.	3.1	28
65	4-aminoazobenzene modified natural glucomannan as a green eco-friendly inhibitor for the mild steel in 0.5 M HCl solution. <i>Corrosion Science</i> , 2019, 151, 132-142.	3.0	128
66	Passivation behavior and surface chemistry of 2507 super duplex stainless steel in artificial seawater: Influence of dissolved oxygen and pH. <i>Corrosion Science</i> , 2019, 150, 218-234.	3.0	212
67	pH responsive antifouling and antibacterial multilayer films with Self-healing performance. <i>Chemical Engineering Journal</i> , 2019, 356, 130-141.	6.6	74
68	Effect of roughness on general corrosion and pitting of (FeCoCrNi) <sub>0.89</sub> (WC) <sub>0.11</sub> high-entropy alloy composite in 3.5 wt.% NaCl solution. <i>Corrosion Science</i> , 2019, 146, 44-57.	3.0	112
69	USING WBE CONJUNCTION WITH ELECTROCHEMICAL NOISE TO EVALUATE THE CORROSION REGULARITY OF ENAMEL COATING MODIFIED ON MILD STEEL IMMERSSED IN CORROSIVE SOLUTION. <i>Surface Review and Letters</i> , 2019, 26, 1950049.	0.5	1
70	Microbiologically-enhanced galvanic corrosion of the steel beneath a deposit in simulated oilfield-produced water containing <i>Desulfotomaculum nigrificans</i> . <i>Electrochemistry Communications</i> , 2018, 90, 1-5.	2.3	48
71	Stearic acid modified zinc nano-coatings with superhydrophobicity and enhanced antifouling performance. <i>Surface and Coatings Technology</i> , 2018, 340, 55-65.	2.2	55
72	Corrosion of X80 pipeline steel under sulfate-reducing bacterium biofilms in simulated CO <sub>2</sub> -saturated oilfield produced water with carbon source starvation. <i>Corrosion Science</i> , 2018, 136, 47-59.	3.0	104

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73	Effect of Submicron-Scale MnS Inclusions on Hydrogen Trapping and HIC Susceptibility of X70 Pipeline Steels. <i>Steel Research International</i> , 2018, 89, 1700566.	1.0	20
74	Assessment by finite element modeling of the interaction of multiple corrosion defects and the effect on failure pressure of corroded pipelines. <i>Engineering Structures</i> , 2018, 165, 278-286.	2.6	70
75	Microbial corrosion of X52 pipeline steel under soil with varied thicknesses soaked with a simulated soil solution containing sulfate-reducing bacteria and the associated galvanic coupling effect. <i>Electrochimica Acta</i> , 2018, 266, 312-325.	2.6	73
76	Fabrication of micro/nanostructured superhydrophobic ZnO-alkylamine composite films on steel for high-performance self-cleaning and anti-adhesion of bacteria. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 544, 35-43.	2.3	20
77	Mechanistic aspects of microbially influenced corrosion of X52 pipeline steel in a thin layer of soil solution containing sulphate-reducing bacteria under various gassing conditions. <i>Corrosion Science</i> , 2018, 133, 178-189.	3.0	71
78	Photocatalytic anti-bioadhesion and bacterial deactivation on nanostructured iron oxide films. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1458-1469.	2.9	16
79	Three-dimensional graphene nanosheet doped with gold nanoparticles as electrochemical DNA biosensor for bacterial detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 860-868.	4.0	26
80	Facile Synthesis of NiCo <sub>2</sub> Fe <sub>3</sub> O <sub>4</sub> Nanotubes/Carbon Textiles Composites for High-Performance Electrochemical Energy Storage Devices. <i>ACS Applied Nano Materials</i> , 2018, 1, 997-1002.	2.4	11
81	Corrosion of antibacterial Cu-bearing 316L stainless steels in the presence of sulfate reducing bacteria. <i>Corrosion Science</i> , 2018, 132, 46-55.	3.0	102
82	Development of nanostructured photocatalytic coatings for anti-bioadhesion and self-cleaning of residual bacterial cells. <i>Chemical Engineering Journal</i> , 2018, 338, 513-525.	6.6	10
83	One-step facile preparation of ZnO nanorods as high-performance photoanodes for photoelectrochemical cathodic protection. <i>Electrochimica Acta</i> , 2018, 276, 311-318.	2.6	64
84	Degradation of fusion bonded epoxy pipeline coatings in the presence of direct current interference. <i>Progress in Organic Coatings</i> , 2018, 120, 79-87.	1.9	9
85	Microbiologically influenced corrosion of 316L stainless steel in the presence of <i>Chlorella vulgaris</i> . <i>International Biodeterioration and Biodegradation</i> , 2018, 129, 209-216.	1.9	50
86	Hydrogen trapping and hydrogen induced cracking of welded X100 pipeline steel in H <sub>2</sub> S environments. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2293-2306.	3.8	60
87	Effect of selected biocides on microbiologically influenced corrosion caused by <i>Desulfovibrio ferrophilus</i> IS5. <i>Scientific Reports</i> , 2018, 8, 16620.	1.6	43
88	Microbiologically influenced corrosion of X52 pipeline steel in thin layers of solution containing sulfate-reducing bacteria trapped under disbonded coating. <i>Corrosion Science</i> , 2018, 145, 271-282.	3.0	41
89	Permeability of coal tar enamel coating to cathodic protection current on pipelines. <i>Construction and Building Materials</i> , 2018, 192, 20-27.	3.2	11
90	Effect of Iron Oxidizing Bacteria Biofilm on Corrosion Inhibition of Imidazoline Derivative in CO <sub>2</sub> -Containing Oilfield Produced Water with Organic Carbon Source Starvation. <i>Journal of the Electrochemical Society</i> , 2018, 165, C354-C361.	1.3	17

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91	Interfacial potential barrier driven electrochemical detection of Cr <sup>6+</sup> . <i>Analytica Chimica Acta</i> , 2018, 1029, 8-14.	2.6	14
92	Effects of temperature and applied strain on corrosion of X80 pipeline steel in chloride solutions. <i>Corrosion Engineering Science and Technology</i> , 2018, 53, 393-402.	0.7	15
93	Correlation of temperature with galvanic corrosion behaviour of copper alloys based on wire beam electrode. <i>Corrosion Engineering Science and Technology</i> , 2018, 53, 331-339.	0.7	5
94	Fabrication of ZnO/rGO/PPy heterostructure for electrochemical detection of mercury ion. <i>Journal of Electroanalytical Chemistry</i> , 2018, 826, 90-95.	1.9	30
95	Effect of cathodic protection potential fluctuations on pitting corrosion of X100 pipeline steel in acidic soil environment. <i>Corrosion Science</i> , 2018, 143, 428-437.	3.0	55
96	Effects of alternating current interference on cathodic protection potential and its effectiveness for corrosion protection of pipelines. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 22-28.	0.7	20
97	An intelligent coating doped with inhibitor-encapsulated nanocontainers for corrosion protection of pipeline steel. <i>Chemical Engineering Journal</i> , 2017, 315, 537-551.	6.6	132
98	Characterization of Surface Films Formed During Corrosion of a Pipeline Steel in H <sub>2</sub> S Environments. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 828-836.	1.2	7
99	A comparative study of corrosion of 316L stainless steel in biotic and abiotic sulfide environments. <i>International Biodeterioration and Biodegradation</i> , 2017, 120, 91-96.	1.9	22
100	Fabrication of SiO <sub>2</sub> nanoparticle-polyelectrolyte nanocontainers with preloaded benzotriazole inhibitors and their self-releasing mechanism and kinetics. <i>Journal of Materials Science</i> , 2017, 52, 8576-8590.	1.7	20
101	A finite element based model for prediction of corrosion defect growth on pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2017, 153, 70-79.	1.2	40
102	Passive film growth on carbon steel and its nanoscale features at various passivating potentials. <i>Applied Surface Science</i> , 2017, 396, 144-153.	3.1	68
103	AgNP-coordinated glucosamine-grafted carbon nanotubes with enhanced antibacterial properties. <i>New Journal of Chemistry</i> , 2017, 41, 7045-7051.	1.4	12
104	Accelerated corrosion of pipeline steel and reduced cathodic protection effectiveness under direct current interference. <i>Construction and Building Materials</i> , 2017, 148, 675-685.	3.2	65
105	Effect of fluid flow on biofilm formation and microbiologically influenced corrosion of pipelines in oilfield produced water. <i>Journal of Petroleum Science and Engineering</i> , 2017, 156, 451-459.	2.1	54
106	Adhesion of <i>Bacillus subtilis</i> and <i>Pseudoalteromonas lipolytica</i> to steel in a seawater environment and their effects on corrosion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 157-165.	2.5	46
107	A peptide-based biological coating for enhanced corrosion resistance of titanium alloy biomaterials in chloride-containing fluids. <i>Journal of Biomaterials Applications</i> , 2017, 31, 1225-1234.	1.2	8
108	<i>In-situ</i> characterization of the early stage of pipeline steel corrosion in bicarbonate solutions by electrochemical atomic force microscopy. <i>Surface and Interface Analysis</i> , 2017, 49, 133-139.	0.8	11

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109	Mechanism of microbiologically influenced corrosion of X52 pipeline steel in a wet soil containing sulfate-reduced bacteria. <i>Electrochimica Acta</i> , 2017, 253, 368-378.	2.6	91
110	The influence of cathodic protection potential on the biofilm formation and corrosion behaviour of an X70 steel pipeline in sulfate reducing bacteria media. <i>Journal of Alloys and Compounds</i> , 2017, 729, 180-188.	2.8	58
111	Bi-layered CeO <sub>2</sub> /SrTiO <sub>3</sub> nanocomposite photoelectrode for energy storage and photocathodic protection. <i>Electrochimica Acta</i> , 2017, 253, 134-141.	2.6	35
112	Nanopatterning of steel by one-step anodization for anti-adhesion of bacteria. <i>Scientific Reports</i> , 2017, 7, 5326.	1.6	26
113	Effect of sulfide films formed on X65 steel surface on hydrogen permeation in H <sub>2</sub> S environments. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4561-4570.	3.8	68
114	Factors Affecting the Performance and Applicability of SrTiO <sub>3</sub> Photoelectrodes for Photoinduced Cathodic Protection. <i>Journal of the Electrochemical Society</i> , 2017, 164, C1067-C1075.	1.3	19
115	Biocide-mediated corrosion of coiled tubing. <i>PLoS ONE</i> , 2017, 12, e0181934.	1.1	14
116	Peptide-based biocoatings for corrosion protection of stainless steel biomaterial in a chloride solution. <i>Materials Science and Engineering C</i> , 2016, 68, 695-700.	3.8	13
117	Modeling of corrosion of steel tubing in CO <sub>2</sub> storage. , 2016, 6, 797-811.		7
118	Modeling by computational fluid dynamics simulation of pipeline corrosion in CO <sub>2</sub> -containing oil-water two phase flow. <i>Journal of Petroleum Science and Engineering</i> , 2016, 146, 134-141.	2.1	43
119	Effect of Stress on Corrosion at Crack Tip on Pipeline Steel in a Near-Neutral pH Solution. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4988-4995.	1.2	10
120	Corrosion of pipelines in CO <sub>2</sub> -saturated oil-water emulsion flow studied by electrochemical measurements and computational fluid dynamics modeling. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 408-415.	2.1	25
121	Fabrication of Halloysite nanocontainers and their compatibility with epoxy coating for anti-corrosion performance. <i>Corrosion Engineering Science and Technology</i> , 2016, 51, 489-497.	0.7	30
122	Monitor safety of aged fuel pipelines. <i>Nature</i> , 2016, 529, 156-156.	13.7	46
123	Corrosion inhibition of carbon steel in CO <sub>2</sub> -containing oilfield produced water in the presence of iron-oxidizing bacteria and inhibitors. <i>Corrosion Science</i> , 2016, 105, 149-160.	3.0	128
124	Effect of surface finishing on early-stage corrosion of a carbon steel studied by electrochemical and atomic force microscope characterizations. <i>Applied Surface Science</i> , 2016, 366, 95-103.	3.1	43
125	The effect of magneticfield on biomineralization and corrosion behavior of carbon steel induced by iron-oxidizing bacteria. <i>Corrosion Science</i> , 2016, 102, 93-102.	3.0	118
126	Novel inhibitors containing multi-functional groups for pipeline corrosion inhibition in oilfield formation water. <i>Corrosion</i> , 2015, , .	0.5	2



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127	Pipeline corrosion. Corrosion Engineering Science and Technology, 2015, 50, 161-162.	0.7	4
128	Inhibitive Performance of Benzotriazole for Steel Corrosion Studied by Electrochemical and AFM Characterization. Journal of Materials Engineering and Performance, 2015, 24, 4997-5001.	1.2	9
129	Study of cathodic protection shielding under coating disbondment on pipelines. Corrosion Science, 2015, 99, 249-257.	3.0	42
130	Effect of alternating current interference on coating disbondment and cathodic protection shielding on pipelines. Corrosion Engineering Science and Technology, 2015, 50, 211-217.	0.7	18
131	Effect of heat treatment on microstructure evolution and erosion-corrosion behavior of a nickel-aluminum bronze alloy in chloride solution. Corrosion Science, 2015, 98, 260-270.	3.0	106
132	Triazolyl-acylhydrazone derivatives as novel inhibitors for copper corrosion in chloride solutions. Corrosion Science, 2015, 100, 341-352.	3.0	86
133	Effects of elastic and plastic deformations on corrosion of an aluminum bronze alloy in NaCl solution. Corrosion, 2015, , .	0.5	0
134	AC Corrosion at Coating Defect on Pipelines. Corrosion, 2015, 71, 267-276.	0.5	19
135	Effect of heat treatment on microstructure evolution and erosion-corrosion behavior of a nickel-aluminum bronze alloy in chloride solution. Corrosion Science, 2015, 98, 260-270.	3.0	34
136	Inhibitive Performance of a Rust Converter on Corrosion of Mild Steel. Journal of Materials Engineering and Performance, 2014, 23, 4102-4108.	1.2	11
137	A comparison of hydrogen permeation and the resulting corrosion enhancement of X65 and X80 pipeline steels. Canadian Metallurgical Quarterly, 2014, 53, 107-111.	0.4	6
138	Corrosion of mild steel in sea mud containing sulphate reducing bacteria. Canadian Metallurgical Quarterly, 2014, 53, 450-454.	0.4	6
139	Corrosion of galvanised steel cord reinforcement in HDPE composite pipes in petroleum production. Corrosion Engineering Science and Technology, 2014, 49, 296-302.	0.7	3
140	Experimental and numerical studies of effectiveness of cathodic protection at corrosion defects on pipelines. Corrosion Science, 2014, 78, 162-171.	3.0	45
141	Understand the AC induced pitting corrosion on pipelines in both high pH and neutral pH carbonate/bicarbonate solutions. Corrosion Science, 2014, 85, 304-310.	3.0	90
142	Erosion-Corrosion of Carbon Steel Pipes in Oil Sands Slurry Studied by Weight-Loss Testing and CFD Simulation. Journal of Materials Engineering and Performance, 2013, 22, 3043-3048.	1.2	15
143	Mechanism of electrochemical corrosion of carbon steel under deoxygenated water drop and sand deposit. Electrochimica Acta, 2013, 114, 403-408.	2.6	53
144	Mechanistic aspects of electrodeposition of Ni-Co-SiC composite nano-coating on carbon steel. Electrochimica Acta, 2013, 109, 638-644.	2.6	56

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146	Surfactant-free electrochemical synthesis of hierarchical platinum particle electrocatalysts for oxidation of ammonia. <i>Journal of Power Sources</i> , 2013, 223, 165-174.	4.0	70
147	Recent advances in electrocatalysts for electro-oxidation of ammonia. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3216-3238.	5.2	155
148	Mechanism of electrochemical corrosion of steel under water drop. <i>Electrochemistry Communications</i> , 2013, 35, 8-11.	2.3	23
149	Hydrogen Permeation and Electrochemical Corrosion Behavior of the X80 Pipeline Steel Weld. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 170-175.	1.2	36
150	Corrosion of 16Mn Line Pipe Steel in a Simulated Soil Solution and the Implication on Its Long-Term Corrosion Behavior. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 498-504.	1.2	11
151	Fabrication of Ni-Co-SiC composite coatings by pulse electrodeposition Effects of duty cycle and pulse frequency. <i>Surface and Coatings Technology</i> , 2013, 216, 282-288.	2.2	110
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153	Effect of alternating current on cathodic protection on pipelines. <i>Corrosion Science</i> , 2013, 66, 263-268.	3.0	101
154	Correlation of initiation of corrosion pits and metallurgical features of X100 pipeline steel. <i>Canadian Metallurgical Quarterly</i> , 2013, 52, 484-487.	0.4	5
155	Effect of alternating current on corrosion and effectiveness of cathodic protection of pipelines. <i>Canadian Metallurgical Quarterly</i> , 2012, 51, 81-90.	0.4	54
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157	A Real-Time AC/DC Measurement Technique for Assessment of AC Corrosion of Buried Pipelines. , 2012, , .		0
158	Mechanistic aspect of near-neutral pH stress corrosion cracking of pipelines under cathodic polarization. <i>Corrosion Science</i> , 2012, 55, 54-60.	3.0	158
159	An experimental investigation of corrosion of X100 pipeline steel under uniaxial elastic stress in a near-neutral pH solution. <i>Corrosion Science</i> , 2012, 59, 103-109.	3.0	135
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164	Parametric effects on the erosion-corrosion rate and mechanism of carbon steel pipes in oil sands slurry. <i>Wear</i> , 2012, 276-277, 141-148.	1.5	76
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172	Inhibiting effect of cerium ions on corrosion of 3003 aluminum alloy in ethylene glycol-water solutions. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 383-388.	1.5	5
173	Inhibition of Corrosion of 3003 Aluminum Alloy in Ethylene Glycol-Water Solutions. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 271-275.	1.2	14
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179	Cellular automaton model for simulation of metastable pitting. <i>Corrosion Engineering Science and Technology</i> , 2011, 46, 340-345.	0.7	6
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182	Corrosion of Welded X100 Pipeline Steel in a Near-Neutral pH Solution. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 834-840.	1.2	27
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186	Effects of coolant chemistry on corrosion of 3003 aluminum alloy in automotive cooling system. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2010, 61, 574-579.	0.8	11
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201	Effects of Microstructure on Corrosion of X70 Pipe Steel in an Alkaline Soil. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 216-220.	1.2	77
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261	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 1998, 28, 1371-1375.	1.5	30
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