Jingâ€˜Li Luo

List of Publications by Year
in descending order

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243 papers	10,616 citations	26610 56 h-index	51562 86 g-index
250 all docs	250 docs citations	250 times ranked	7945 citing authors

#	Article	IF	Citations
1	Strengthening absorption ability of Coâ€“Nâ€“C as efficient bifunctional oxygen catalyst by modulating the d band center using MoC. Green Energy and Environment, 2023, 8, 459-469.	4.7	22
2	Directionally maximizing CO selectivity to near-unity over cupric oxide with indium species for electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 427, 131654.	6.6	18
3	Hydrogen generation and utilization in a two-phase flow membraneless microfluidic electrolyzer-fuel cell tandem operation for micropower application. Applied Energy, 2022, 305, 117945.	5.1	13
4	Constructing novel cross-linked polybenzimidazole network for high-performance high-temperature proton exchange membrane. Journal of Membrane Science, 2022, 643, 120037.	4.1	60
5	ZnS anchored on porous N, S-codoped carbon as superior oxygen reduction reaction electrocatalysts for Al-air batteries. Journal of Colloid and Interface Science, 2022, 609, 868-877.	5.0	6
6	Interfaceâ€Induced Electrocatalytic Enhancement of CO₂â€toâ€Formate Conversion on Heterostructured Bismuthâ€Based Catalysts. Small, 2022, 18, e2105682.	5.2	53
7	Tuning the subsurface oxygen of Ag2O-derived Ag nanoparticles to achieve efficient CO2 electroreduction to CO. Electrochimica Acta, 2022, 403, 139656.	2.6	4
8	In-situ generated hydroxides realize near-unity CO selectivity for electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 433, 133785.	6.6	9
9	Lessâ€Energy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni₃S₂/CNT Nanoâ€Heterostructured Electrocatalysts. Small Methods, 2022, 6, e2101195.	4.6	10
10	In situ construction of hetero-structured perovskite composites with exsolved Fe and Cu metallic nanoparticles as efficient CO₂ reduction electrocatalysts for high performance solid oxide electrolysis cells. Journal of Materials Chemistry A, 2022, 10, 2509-2518.	5.2	30
11	Bariumâ€doped Sr₂Fe_{1.5}Mo_{0.5}O_{6â€}_{Î´} perovskite anode materials for protonic ceramic fuel cells for ethane conversion. Journal of the American Ceramic Society, 2022, 105, 3613-3624.	1.9	9
12	Toward Excellence of Electrocatalyst Design by Emerging Descriptorâ€Oriented Machine Learning. Advanced Functional Materials, 2022, 32, .	7.8	43
13	Electrochemically reconstructed perovskite with cooperative catalytic sites for CO2-to-formate conversion. Applied Catalysis B: Environmental, 2022, 306, 121101.	10.8	14
14	Influence of Major Operating Parameters (Temperature, Pressure, and Flow Rate) on the Corrosion of Candidate Alloys for the Construction of Hydrothermal Liquefaction Biorefining Reactors. Energy & Fuels, 2022, 36, 3134-3153.	2.5	5
15	Lessâ€Energy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni₃S₂/CNT Nanoâ€Heterostructured Electrocatalysts (Small Methods 3/2022). Small Methods, 2022, 6, .	4.6	1
16	NiFe P@NiCo-LDH nanoarray bifunctional electrocatalysts for coupling of methanol oxidation and hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 17150-17160.	3.8	21
17	Densely packed ultrafine SnO2 nanoparticles grown on carbon cloth for selective CO2 reduction to formate. Journal of Energy Chemistry, 2022, 71, 159-166.	7.1	17
18	Generation of hydrogen accompanied with formate bifunctional NiCo P@NiCo-LDH nanosheet electrocatalyst. Journal of Alloys and Compounds, 2022, 906, 164305.	2.8	6

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19	Regulating the Electron Localization of Metallic Bismuth for Boosting CO2 Electroreduction. Nano-Micro Letters, 2022, 14, 38.	14.4	21
20	Nanoalloy libraries from laser-induced thermionic emission reduction. Science Advances, 2022, 8, eabm6541.	4.7	11
21	Carbon Dioxide Valorization via Formate Electrosynthesis in a Wide Potential Window. Advanced Functional Materials, 2022, 32, .	7.8	37
22	Impacts of catalyst, inorganic and organic corrodants on corrosion under batch-mode catalytic biomass hydrothermal liquefaction conversion. Corrosion Science, 2022, 204, 110409.	3.0	6
23	High ionic conductivity of ultralow yttria concentration yttria-stabilized zirconia thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042405.	0.9	2
24	Switchable CO₂ Electroreduction Induced By the Bismuth Moiety with Tunable Local Structures on Graphene. ECS Meeting Abstracts, 2022, MA2022-01, 2090-2090.	0.0	0
25	Tailoring a Three-Phase Microenvironment for High-Performance CO₂ Electroreduction. ECS Meeting Abstracts, 2022, MA2022-01, 1770-1770.	0.0	0
26	Interface modification of Ru-CeO2 co-infiltrated SFM electrode and construction of SDC/YSZ bilayer electrolyte for direct CO2 electrolysis. Electrochimica Acta, 2022, 426, 140771.	2.6	9
27	Efficient bifunctional electrocatalysts for solid oxide cells based on the structural evolution of perovskites with abundant defects and exsolved CoFe nanoparticles. Journal of Power Sources, 2021, 482, 228981.	4.0	36
28	In situ facile fabrication of Ni(OH)2 nanosheet arrays for electrocatalytic co-production of formate and hydrogen from methanol in alkaline solution. Applied Catalysis B: Environmental, 2021, 281, 119510.	10.8	154
29	Hollow NiSe Nanocrystals Heterogenized with Carbon Nanotubes for Efficient Electrocatalytic Methanol Upgrading to Boost Hydrogen Coâ€Production. Advanced Functional Materials, 2021, 31, 2008812.	7.8	84
30	All roads lead to Rome: An energy-saving integrated electrocatalytic CO2 reduction system for concurrent value-added formate production. Chemical Engineering Journal, 2021, 412, 127893.	6.6	38
31	Ultrasmall Bi nanoparticles confined in carbon nanosheets as highly active and durable catalysts for CO2 electroreduction. Applied Catalysis B: Environmental, 2021, 284, 119723.	10.8	61
32	Interfacial engineering of Cu2Se/Co3Se4 multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. Applied Catalysis B: Environmental, 2021, 285, 119800.	10.8	51
33	Reducing d-p band coupling to enhance CO2 electrocatalytic activity by Mg-doping in Sr2FeMoO6-Î´ double perovskite for high performance solid oxide electrolysis cells. Nano Energy, 2021, 82, 105707.	8.2	67
34	CO2-emission-free electrocatalytic CH3OH selective upgrading with high productivity at large current densities for energy saved hydrogen co-generation. Nano Energy, 2021, 80, 105530.	8.2	76
35	Corrosion performance of candidate boiler tube alloys under advanced pressurized oxy-fuel combustion conditions. Energy, 2021, 215, 119178.	4.5	8
36	Condensed phase corrosion of P91 and DSS 2205 steels at advanced oxygenâ€fired pressurized fluidized bed combustion plants. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 757-771.	0.8	3

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37	Co- and N-doped carbon nanotubes with hierarchical pores derived from metalâ€“organic nanotubes for oxygen reduction reaction. Journal of Energy Chemistry, 2021, 53, 49-55.	7.1	18
38	Effect of interaction between two single-particle-impingements on the repassivation behavior of 304 stainless steel in a simulated groundwater. Corrosion Reviews, 2021, 39, 149-164.	1.0	1
39	Folic acid self-assembly synthesis of ultrathin N-doped carbon nanosheets with single-atom metal catalysts. Energy Storage Materials, 2021, 36, 409-416.	9.5	39
40	Characterizing foulants on slotted liner and probing the surface interaction mechanisms in organic media with implication for an antifouling strategy in oil production. Fuel, 2021, 290, 120008.	3.4	7
41	Folic Acid Self-Assembly Enabling Manganese Single-Atom Electrocatalyst for Selective Nitrogen Reduction to Ammonia. Nano-Micro Letters, 2021, 13, 125.	14.4	39
42	Corrosion of SS310 and Alloy 740 in high temperature supercritical CO2 with impurities H2O and O2. Corrosion Science, 2021, 184, 109350.	3.0	21
43	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO₂ Electroreduction to Formate. ACS Catalysis, 2021, 11, 7604-7612.	5.5	80
44	High-Temperature Electrochemical Devices Based on Dense Ceramic Membranes for CO2 Conversion and Utilization. Electrochemical Energy Reviews, 2021, 4, 518-544.	13.1	27
45	Combating marine corrosion on engineered oxide surface by repelling, blocking and capturing Clâ¯: A mini review. Corrosion Communications, 2021, 2, 1-7.	2.7	38
46	Role of Ca2+ in the CO2 corrosion behavior and film characteristics of N80 steel and electroless Niâ€“P coating at high temperature and high pressure. Materials Chemistry and Physics, 2021, 267, 124618.	2.0	12
47	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie, 2021, 133, 20698-20705.	1.6	25
48	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie - International Edition, 2021, 60, 20535-20542.	7.2	121
49	Influence of H2S on the general corrosion and sulfide stress cracking of pipelines steels for supercritical CO2 transportation. Corrosion Science, 2021, 190, 109639.	3.0	20
50	Microfabrication of the Ammonia Plasma-Activated Nickel Nitrideâ€“Nickel Thin Film for Overall Water Splitting in the Microfluidic Membraneless Electrolyzer. ACS Applied Energy Materials, 2021, 4, 9639-9652.	2.5	18
51	Constructing proton transport channels in low phosphoric-acid doped polybenzimidazole membrane by introducing metalâ€“organic frameworks containing phosphoric-acid groups. Journal of Power Sources, 2021, 507, 230316.	4.0	31
52	Energyâ€saving H₂ Generation Coupled with Oxidative Alcohol Refining over Bimetallic Phosphide Ni₂Pâ¯CoP Junction Bifunctional Electrocatalysts. ChemSusChem, 2021, 14, 5450-5459.	3.6	16
53	La0.5Sr0.5Fe0.9Mo0.1O3-Î´-CeO2 anode catalyst for Co-Producing electricity and ethylene from ethane in proton-conducting solid oxide fuel cells. Ceramics International, 2021, 47, 24106-24114.	2.3	39
54	Coreâ€“Shell Structured Cu(OH)₂@NiFe(OH)_x Nanotube Electrocatalysts for Methanol Oxidation Based Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 8723-8732.	2.4	14

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55	Hierarchically assembling cobalt/nickel carbonate hydroxide on copper nitride nanowires for highly efficient water splitting. Applied Catalysis B: Environmental, 2021, 292, 120148.	10.8	62
56	In-situ exsolved FeNi nanoparticles on perovskite matrix anode for co-production of ethylene and power from ethane in proton conducting fuel cells. Electrochimica Acta, 2021, 393, 139096.	2.6	17
57	Rational design of CdCO3 nanoparticles decorated carbon nanofibers for boosting electrochemical CO2 reduction. Journal of Power Sources, 2021, 510, 230433.	4.0	10
58	Accelerating photoelectric CO2 conversion with a photothermal wavelength-dependent plasmonic local field. Applied Catalysis B: Environmental, 2021, 298, 120533.	10.8	17
59	Constructing stable continuous proton transport channels by in-situ preparation of covalent triazine-based frameworks in phosphoric acid-doped polybenzimidazole for high-temperature proton exchange membranes. Journal of Membrane Science, 2021, 640, 119775.	4.1	51
60	Bifunctional Ptâ€“Co₃O₄ electrocatalysts for simultaneous generation of hydrogen and formate via energy-saving alkaline seawater/methanol co-electrolysis. Journal of Materials Chemistry A, 2021, 9, 6316-6324.	5.2	65
61	Bi₂O₃ Nanosheets Grown on Carbon Nanofiber with Inherent Hydrophobicity for High-Performance CO₂ Electroreduction in a Wide Potential Window. ACS Nano, 2021, 15, 17757-17768.	7.3	47
62	Emerging anode materials architectured with NiCoFe ternary alloy nanoparticles for ethane-fueled protonic ceramic fuel cells. Journal of Power Sources, 2021, 515, 230634.	4.0	9
63	UnravelingÂthe Enhanced Kinetics of Sr₂Fe₁₊_xMo_{1â€}_xO_{6â€Ï´} Electrocatalysts for Highâ€Performance Solid Oxide Cells. Advanced Energy Materials, 2021, 11, 2102845.	10.2	41
64	Phosphoric acid-doped polybenzimidazole with a leaf-like three-layer porous structure as a high-temperature proton exchange membrane for fuel cells. Journal of Materials Chemistry A, 2021, 9, 26345-26353.	5.2	50
65	Hierarchically Assembling Cobalt/Nickel Carbonate Hydroxide on Copper Nitride Nanowires for Highly Efficient Water Splitting. ECS Meeting Abstracts, 2021, MA2021-02, 1734-1734.	0.0	0
66	Electronic Regulation of Bismuth Oxide Via Sulfur Doping for Efficient CO2 Electroreduction to Formate. ECS Meeting Abstracts, 2021, MA2021-02, 824-824.	0.0	0
67	Steering the Selectivity of CuO to Near-Unity of CO with Indium Species for CO2 Electroreduction. ECS Meeting Abstracts, 2021, MA2021-02, 825-825.	0.0	0
68	Electrochemically Dismantled Perovskite with Cooperative Catalysis for CO2-to-Formate Conversion. ECS Meeting Abstracts, 2021, MA2021-02, 1318-1318.	0.0	0
69	Enhanced CO2 Adsorption Capability for Highly Selective Electroreduction of CO2 to Formate. ECS Meeting Abstracts, 2021, MA2021-02, 1740-1740.	0.0	0
70	Coupling efficient biomass upgrading with H₂ production via bifunctional Cu_xS@NiCo-LDH coreâ€“shell nanoarray electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 1138-1146.	5.2	132
71	Wavy SnO2 catalyzed simultaneous reinforcement of carbon dioxide adsorption and activation towards electrochemical conversion of CO2 to HCOOH. Applied Catalysis B: Environmental, 2020, 261, 118243.	10.8	97
72	Stability of C3-C6 carbonium ions inside zeolites: A first principles study. Applied Surface Science, 2020, 503, 144148.	3.1	7

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73	A-site deficient perovskite with nano-socketed Ni-Fe alloy particles as highly active and durable catalyst for high-temperature CO2 electrolysis. Electrochimica Acta, 2020, 335, 135683.	2.6	38
74	Pr₂BaNiMnO_{7â^'Î´} double-layered Ruddlesdenâ€"Popper perovskite oxides as efficient cathode electrocatalysts for low temperature proton conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 7704-7712.	5.2	84
75	Insights into the erosion-enhanced corrosion on electroless Niâ€"P coating from single particle impingement. Corrosion Science, 2020, 166, 108422.	3.0	22
76	Valueâ€Added Formate Production from Selective Methanol Oxidation as Anodic Reaction to Enhance Electrochemical Hydrogen Cogeneration. ChemSusChem, 2020, 13, 914-921.	3.6	87
77	CO2 dry reforming of CH4 with Sr and Ni co-doped LaCrO3 perovskite catalysts. Applied Surface Science, 2020, 506, 144699.	3.1	57
78	Unlocking the impurity-induced pipeline corrosion based on phase behavior of impure CO2 streams. Corrosion Science, 2020, 165, 108367.	3.0	19
79	Enhancing through-plane electrical conductivity by introducing Au microdots onto TiN coated metal bipolar plates of PEMFCs. International Journal of Hydrogen Energy, 2020, 45, 29442-29448.	3.8	31
80	Characterization and corrosion behavior of electroless Ni-Mo-P/Ni-P composite coating in CO2/H2S/Clâ^' brine: Effects of Mo addition and heat treatment. Surface and Coatings Technology, 2020, 403, 126416.	2.2	23
81	Unraveling Structure Sensitivity in CO₂ Electroreduction to Near-Unity CO on Silver Nanocubes. ACS Catalysis, 2020, 10, 3158-3163.	5.5	80
82	Constructing multifunctional â€˜Nanoplatelet-on-Nanoarrayâ€™ electrocatalyst with unprecedented activity towards novel selective organic oxidation reactions to boost hydrogen production. Applied Catalysis B: Environmental, 2020, 278, 119339.	10.8	93
83	Electrolysis of waste water containing aniline to produce polyaniline and hydrogen with low energy consumption. International Journal of Hydrogen Energy, 2020, 45, 22419-22426.	3.8	21
84	Multi-functionalities enabled fivefold applications of LaCo0.6Ni0.4O3â^'Î´ in intermediate temperature symmetrical solid oxide fuel/electrolysis cells. Nano Energy, 2020, 77, 105207.	8.2	37
85	Recent Advances in MOFâ€Derived Single Atom Catalysts for Electrochemical Applications. Advanced Energy Materials, 2020, 10, 2001561.	10.2	265
86	â€œRevitalizingâ€•degraded solid oxide fuel cells in sour fuels for bifunctional oxygen catalysis in zincâ€"air batteries. Green Chemistry, 2020, 22, 6075-6083.	4.6	9
87	Cogeneration of ethylene and electricity in symmetrical protonic solid oxide fuel cells based on a La_{0.6}Sr_{0.4}Fe_{0.8}Nb_{0.1}Cu_{0.1}O_{3â^'Î´} electrode. Journal of Materials Chemistry A, 2020, 8, 25978-25985.	5.2	22
88	A High-Performance Ruddlesdenâ€"Popper Perovskite for Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2020, 10, 13437-13444.	5.5	39
89	Oxygen Evolution Reaction: Coreâ€"Shell Structured NiFeSn@NiFe (Oxy)Hydroxide Nanospheres from an Electrochemical Strategy for Electrocatalytic Oxygen Evolution Reaction (Adv. Sci. 10/2020). Advanced Science, 2020, 7, 2070052.	5.6	13
90	In Situ Exsolved Metal Nanoparticles: A Smart Approach for Optimization of Catalysts. Chemistry of Materials, 2020, 32, 5424-5441.	3.2	89

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91	Hexagonal Zn Nanoplates Enclosed by Zn(100) and Zn(002) Facets for Highly Selective CO₂ Electroreduction to CO. ACS Applied Materials & Interfaces, 2020, 12, 31431-31438.	4.0	51
92	Tuning adsorption strength of CO2 and its intermediates on tin oxide-based electrocatalyst for efficient CO2 reduction towards carbonaceous products. Applied Catalysis B: Environmental, 2020, 277, 119252.	10.8	50
93	Generating C4 Alkenes in Solid Oxide Fuel Cells via Cofeeding H₂ and n-Butane Using a Selective Anode Electrocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 16209-16215.	4.0	15
94	Understanding the immobilization mechanisms of hazardous heavy metal ions in the cage of sodalite at molecular level: A DFT study. Microporous and Mesoporous Materials, 2020, 306, 110409.	2.2	13
95	Standalone Solar Carbon-Based Fuel Production Based on Semiconductors. Cell Reports Physical Science, 2020, 1, 100101.	2.8	18
96	Corrosion of duplex stainless steel 2205 in hot flue gas environments produced at advanced oxy-fired pressurized fluidized bed combustion plants. International Journal of Greenhouse Gas Control, 2020, 100, 103108.	2.3	3
97	Amorphous cobalt hydroxysulfide nanosheets with regulated electronic structure for high-performance electrochemical energy storage. Science China Materials, 2020, 63, 2303-2313.	3.5	13
98	Metal-support interaction enhanced electrochemical reduction of CO2 to formate between graphene and Bi nanoparticles. Journal of CO2 Utilization, 2020, 37, 353-359.	3.3	41
99	Ca-containing Ba0Â·95Ca0Â·05Co0Â·4Fe0Â·4Zr0Â·1Y0Â·1O3-Î´ cathode with high CO2-poisoning tolerance for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 453, 227909.	4.0	35
100	Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickelâ€"Phosphorus Coating. Langmuir, 2020, 36, 897-905.	1.6	12
101	Novel folic acid complex derived nitrogen and nickel co-doped carbon nanotubes with embedded Ni nanoparticles as efficient electrocatalysts for CO₂ reduction. Journal of Materials Chemistry A, 2020, 8, 5105-5114.	5.2	18
102	Boosting H₂ Generation Coupled with Selective Oxidation of Methanol into Valueâ€Added Chemical over Cobalt Hydroxide@Hydroxysulfide Nanosheets Electrocatalysts. Advanced Functional Materials, 2020, 30, 1909610.	7.8	190
103	Exploring Ni(Mn_{1/3}Cr_{2/3})₂O₄ spinel-based electrodes for solid oxide cells. Journal of Materials Chemistry A, 2020, 8, 3988-3998.	5.2	27
104	Reviewâ€"Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. Journal of the Electrochemical Society, 2020, 167, 081507.	1.3	78
105	Î³-MnO2 nanorod-assembled hierarchical micro-spheres with oxygen vacancies to enhance electrocatalytic performance toward the oxygen reduction reaction for aluminum-air batteries. Journal of Energy Chemistry, 2020, 51, 81-89.	7.1	45
106	Co P@NiCo-LDH heteronanosheet arrays as efficient bifunctional electrocatalysts for co-generation of value-added formate and hydrogen with less-energy consumption. Journal of Energy Chemistry, 2020, 50, 314-323.	7.1	83
107	In situ embedding of CoFe nanocatalysts into Sr3FeMoO7 matrix as high-performance anode materials for solid oxide fuel cells. Journal of Power Sources, 2020, 459, 228071.	4.0	31
108	Boosting formate production at high current density from CO2 electroreduction on defect-rich hierarchical mesoporous Bi/Bi2O3 junction nanosheets. Applied Catalysis B: Environmental, 2020, 271, 118957.	10.8	103

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109	Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO2 electroreduction towards CH4. Nano Energy, 2020, 73, 104833.	8.2	35
110	Perovskite Chromite With In-Situ Assembled Ni-Co Nano-Alloys: A Potential Bifunctional Electrode Catalyst for Solid Oxide Cells. Frontiers in Chemistry, 2020, 8, 595608.	1.8	7
111	Insights into the Electrochemical Corrosion Behavior and Mechanism of Electroless Ni-P Coating in the CO2/H2S/Clâ" Environment. Corrosion, 2020, 76, 578-590.	0.5	18
112	Shape Effect of Zinc Nanostructures on Electrochemical CO₂ Reduction. ECS Meeting Abstracts, 2020, MA2020-02, 3877-3877.	0.0	1
113	Investigation on the flow-induced corrosion and degradation behavior of underground J55 pipe in a water production well in the Athabasca oil sands reservoir. Journal of Petroleum Science and Engineering, 2019, 182, 106325.	2.1	23
114	Electrochemical Transformation of Facetâ€Controlled BiOI into Mesoporous Bismuth Nanosheets for Selective Electrocatalytic Reduction of CO₂ to Formic Acid. ChemSusChem, 2019, 12, 4700-4707.	3.6	46
115	Hollow Porous Ag Spherical Catalysts for Highly Efficient and Selective Electrocatalytic Reduction of CO₂ to CO. ACS Sustainable Chemistry and Engineering, 2019, 7, 14443-14450.	3.2	40
116	Modeling the effect of insoluble corrosion products on pitting corrosion kinetics of metals. Npj Materials Degradation, 2019, 3, .	2.6	46
117	Minimum and well-dispersed platinum nanoparticles on 3D porous nickel for highly efficient electrocatalytic hydrogen evolution reaction enabled by atomic layer deposition. Applied Surface Science, 2019, 494, 1091-1099.	3.1	20
118	Electrolyte Driven Highly Selective CO₂ Electroreduction at Low Overpotentials. ACS Catalysis, 2019, 9, 10440-10447.	5.5	41
119	Exploring MnCr2O4â€"Gd0.1Ce0.9O2-Î´ as a composite electrode material for solid oxide fuel cell. International Journal of Hydrogen Energy, 2019, 44, 31333-31341.	3.8	16
120	Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. ACS Nano, 2019, 13, 11843-11852.	7.3	210
121	Reviewâ"Factors Influencing Sulfur Induced Corrosion on the Secondary Side in Pressurized Water Reactors (PWRs). Journal of the Electrochemical Society, 2019, 166, C49-C64.	1.3	42
122	Sulfur induced corrosion (SIC) mechanism of steam generator (SG) tubing at micro scale: A critical review. Materials Chemistry and Physics, 2019, 233, 133-140.	2.0	36
123	Transient Potential Induced Anodic Dissolution of 316L Stainless Steel in Sulfuric Acid Solution. Journal of the Electrochemical Society, 2019, 166, C3355-C3363.	1.3	8
124	Investigation of the Antifouling Mechanism of Electroless Nickelâ€"Phosphorus Coating against Sand and Bitumen. Energy & Fuels, 2019, 33, 6350-6360.	2.5	2
125	Achieving Efficient CO₂ Electrochemical Reduction on Tunable In(OH)₃-Coupled Cu₂O-Derived Hybrid Catalysts. ACS Applied Materials & Interfaces, 2019, 11, 22346-22351.	4.0	28
126	Effects of reduced sulfur on passive film properties of steam generator (SG) tubing: an overview. Anti-Corrosion Methods and Materials, 2019, 66, 317-326.	0.6	7

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127	Gum Arabic as corrosion inhibitor in the oil industry: experimental and theoretical studies. Corrosion Engineering Science and Technology, 2019, 54, 444-454.	0.7	39
128	Fouling mechanisms of asphaltenes and fine solids on bare and electroless nickel-phosphorus coated carbon steel. Fuel, 2019, 252, 188-199.	3.4	11
129	Microwave-assisted hydrothermal synthesis of MOFs-derived bimetallic CuCo-N/C electrocatalyst for efficient oxygen reduction reaction. Journal of Alloys and Compounds, 2019, 795, 462-470.	2.8	31
130	Insights into the Interfacial Process in Electroless Niâ€"P Coating on Supercritical CO₂Transport Pipeline as Relevant to Carbon Capture and Storage. ACS Applied Materials & Interfaces, 2019, 11, 16243-16251.	4.0	27
131	Electrochemical exfoliation from an industrial ingot: ultrathin metallic bismuth nanosheets for excellent CO₂ capture and electrocatalytic conversion. Nanoscale, 2019, 11, 22125-22133.	2.8	34
132	In situ grown cobalt phosphide (CoP) on perovskite nanofibers as an optimized trifunctional electrocatalyst for Znâ€"air batteries and overall water splitting. Journal of Materials Chemistry A, 2019, 7, 26607-26617.	5.2	92
133	Carbon nanofibers@NiSe core/sheath nanostructures as efficient electrocatalysts for integrating highly selective methanol conversion and less-energy intensive hydrogen production. Journal of Materials Chemistry A, 2019, 7, 25878-25886.	5.2	57
134	Unraveling the effects of CO2 and H2S on the corrosion behavior of electroless Ni-P coating in CO2/H2S/Clâ€" environments at high temperature and high pressure. Corrosion Science, 2019, 148, 317-330.	3.0	63
135	Sensing corrosion within an artificial defect in organic coating using SECM. Sensors and Actuators B: Chemical, 2019, 280, 235-242.	4.0	41
136	Probing the Interaction Mechanism between Oil-in-Water Emulsions and Electroless Nickelâ€"Phosphorus Coating with Implications for Antifouling in Oil Production. Energy & Fuels, 2019, 33, 3764-3775.	2.5	11
137	Effects of hydrogen and stress on the electrochemical and passivation behaviour of 304 stainless steel in simulated PEMFC environment. Electrochimica Acta, 2019, 293, 60-77.	2.6	68
138	Co₂CrO₄ Nanopowders as an Anode Catalyst for Simultaneous Conversion of Ethane to Ethylene and Power in Proton-Conducting Fuel Cell Reactors. Journal of Physical Chemistry C, 2018, 122, 4165-4171.	1.5	23
139	A facile surface chemistry approach to bifunctional excellence for perovskite electrocatalysis. Nano Energy, 2018, 49, 117-125.	8.2	55
140	Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO2 composite coating. Materials Today Physics, 2018, 4, 36-42.	2.9	37
141	Effect of defect on corrosion behavior of electroless Ni-P coating in CO2-saturated NaCl solution. Corrosion Science, 2018, 134, 23-37.	3.0	57
142	Rational Design of Silver Sulfide Nanowires for Efficient CO₂ Electroreduction in Ionic Liquid. ACS Catalysis, 2018, 8, 1469-1475.	5.5	76
143	Toward a rational photocatalyst design: a new formation strategy of co-catalyst/semiconductor heterostructures via in situ exsolution. Chemical Communications, 2018, 54, 1505-1508.	2.2	39
144	Ultrathin 5-fold twinned sub-25 nm silver nanowires enable highly selective electroreduction of CO2 to CO. Nano Energy, 2018, 45, 456-462.	8.2	115

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