

# Yun Chen

## List of Publications by Year in descending order

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47  
papers

1,954  
citations

257450

24  
h-index

254184

43  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amino acids modified konjac glucomannan as green corrosion inhibitors for mild steel in HCl solution. <i>Carbohydrate Polymers</i> , 2018, 181, 191-199.	10.2	149
2	Fabrication of gold nanoparticles on bilayer graphene for glucose electrochemical biosensing. <i>Journal of Materials Chemistry</i> , 2011, 21, 7604.	6.7	141
3	Three-Dimensional Graphene-Carbon Nanotube Hybrid for High-Performance Enzymatic Biofuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3387-3393.	8.0	136
4	Inhibition of mild steel corrosion in hydrochloric acid using two novel pyridine Schiff base derivatives: a comparative study of experimental and theoretical results. <i>RSC Advances</i> , 2017, 7, 43014-43029.	3.6	100
5	Inhibitory effect of konjac glucomannan on pitting corrosion of AA5052 aluminium alloy in NaCl solution. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 52-60.	9.4	94
6	Superior conducting polypyrrole anti-corrosion coating containing functionalized carbon powders for 304 stainless steel bipolar plates in proton exchange membrane fuel cells. <i>Chemical Engineering Journal</i> , 2020, 393, 124675.	12.7	74
7	Corrosion inhibition properties of two imidazolium ionic liquids with hydrophilic tetrafluoroborate and hydrophobic hexafluorophosphate anions in acid medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 234-247.	5.8	69
8	Highly effective scale inhibition performance of amino trimethylenephosphonic acid on calcium carbonate. <i>Desalination</i> , 2017, 422, 165-173.	8.2	68
9	Smart coatings embedded with polydopamine-decorated layer-by-layer assembled SnO <sub>2</sub> nanocontainers for the corrosion protection of 304 stainless steels. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 741-753.	9.4	67
10	Synthesis and scale inhibition performance of a novel environmental friendly and hydrophilic terpolymer inhibitor. <i>Desalination</i> , 2017, 416, 166-174.	8.2	64
11	Microwave-Assisted In-Situ Synthesis of Graphene/PEDOT Hybrid and Its Application in Supercapacitors. <i>ChemPlusChem</i> , 2013, 78, 227-234.	2.8	61
12	2-Amino-4-(4-methoxyphenyl)-thiazole as a novel corrosion inhibitor for mild steel in acidic medium. <i>Progress in Organic Coatings</i> , 2019, 126, 150-161.	3.9	61
13	Fabrication of a dispersible graphene/gold nanoclusters hybrid and its potential application in electrogenerated chemiluminescence. <i>Chemical Communications</i> , 2011, 47, 11733.	4.1	60
14	Design of an enzymatic biofuel cell with large power output. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11511-11516.	10.3	60
15	Ionic liquids with two typical hydrophobic anions as acidic corrosion inhibitors. <i>Journal of Molecular Liquids</i> , 2018, 269, 886-895.	4.9	56
16	Corrosion behaviors and physical properties of polypyrrole-molybdate coating electropolymerized on carbon steel. <i>Progress in Organic Coatings</i> , 2018, 122, 159-169.	3.9	54
17	Corrosion protection of carbon steels by electrochemically synthesized V-TiO <sub>2</sub> /polypyrrole composite coatings in 0.1 M HCl solution. <i>Journal of Alloys and Compounds</i> , 2019, 771, 857-868.	5.5	47
18	Enzymeless multi-sugar fuel cells with high power output based on 3D graphene-Co <sub>3</sub> O <sub>4</sub> hybrid electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9170.	2.8	42

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19	Halogen-substituted thiazole derivatives as corrosion inhibitors for mild steel in 0.5 M sulfuric acid at high temperature. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 466-479.	5.3	41
20	Effect of scale inhibitors on the structure and morphology of CaCO <sub>3</sub> crystal electrochemically deposited on TA1 alloy. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 558-566.	9.4	36
21	An OFF-switchable power output of enzymatic biofuel cell controlled by thermal-sensitive polymer. <i>Biosensors and Bioelectronics</i> , 2015, 74, 142-149.	10.1	32
22	Corrosion behavior and biocompatibility of hydroxyapatite/magnesium phosphate/zinc phosphate composite coating deposited on AZ31 alloy. <i>Surface and Coatings Technology</i> , 2017, 326, 270-280.	4.8	32
23	Fluorescent quantum dots derived from PEDOT and their applications in optical imaging and sensing. <i>Materials Horizons</i> , 2014, 1, 529-534.	12.2	30
24	Efficient Biocatalytic System for Biosensing by Combining Metal-Organic Framework (MOF)-Based Nanozymes and G-Quadruplex (G4)-DNAzymes. <i>Analytical Chemistry</i> , 2022, 94, 7295-7302.	6.5	28
25	Enhanced inhibitive performance of fluoro-substituted imidazolium-based ionic liquid for mild steel corrosion in hydrochloric acid at elevated temperature. <i>Journal of Materials Science</i> , 2018, 53, 14666-14680.	3.7	27
26	Experimental and Theoretical Studies of Carboxylic Polymers with Low Molecular Weight as Inhibitors for Calcium Carbonate Scale. <i>Crystals</i> , 2020, 10, 406.	2.2	26
27	Highly Sensitive Biosensing Applications of a Magnetically Immobilizable Covalent G-Quadruplex-Hemin DNAzyme Catalytic System. <i>Analytical Chemistry</i> , 2022, 94, 2212-2219.	6.5	25
28	Inhibition performances of imidazole derivatives with increasing fluorine atom contents in anions against carbon steel corrosion in 1 M HCl. <i>Journal of Molecular Liquids</i> , 2021, 322, 114535.	4.9	24
29	Fabrication and characterization of polypyrrole coatings by embedding antimony modified SnO <sub>2</sub> nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 178-186.	5.8	23
30	Corrosion protection of 304 stainless steel from a smart conducting polypyrrole coating doped with pH-sensitive molybdate-loaded TiO <sub>2</sub> nanocontainers. <i>Progress in Organic Coatings</i> , 2020, 146, 105750.	3.9	23
31	Performance and mechanism of 1-hydroxy ethylidene-1,1-diphosphonic acid and 2-phosphonobutane-1,2,4-tricarboxylic acid in the inhibition of calcium carbonate scale. <i>Journal of Molecular Liquids</i> , 2021, 334, 116093.	4.9	19
32	Cobalt Catalyst Grafted CdSeTe Quantum Dots on Porous NiO as Photocathode for H <sub>2</sub> Evolution under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11166-11174.	6.7	18
33	Crystallization of CaCO <sub>3</sub> in Aqueous Solutions with Extremely High Concentrations of NaCl. <i>Crystals</i> , 2019, 9, 647.	2.2	18
34	Fabrication of PEDOT nanowhiskers for electrical connection of the hemoglobin active center for H <sub>2</sub> O <sub>2</sub> electrochemical biosensing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3451.	5.8	16
35	A ternary hybrid of Zn-doped MoS <sub>2</sub> -RGO for highly effective electrocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 100-108.	9.4	15
36	Electrosynthesis of molybdate-doped P(ANI-co-PY) copolymer coating in ionic liquid for corrosion protection of 304 stainless steel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 171-181.	5.3	15

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37	A self-curing konjac glucomannan/CaCO <sub>3</sub> coating for corrosion protection of AA5052 aluminum alloy in NaCl solution. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 691-701.	7.5	14
38	In vitro degradation, cytocompatibility and hemolysis tests of CaF <sub>2</sub> doped TiO <sub>2</sub> -SiO <sub>2</sub> composite coating on AZ31 alloy. <i>Applied Surface Science</i> , 2016, 382, 268-279.	6.1	13
39	Design of the double-layer biocompatible coating on AZ31 magnesium alloy for highly effective corrosion resistance. <i>Surface and Coatings Technology</i> , 2021, 428, 127897.	4.8	13
40	Experimental and theoretical studies of sodium acetyldithiocarbamate for the removal of Cu <sup>2+</sup> and Ni <sup>2+</sup> from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 330-339.	9.4	11
41	Novel and green hydroxyperylene imide based fluorescent polymer for calcium sulfate scale inhibition. <i>Journal of Molecular Liquids</i> , 2021, 344, 117730.	4.9	11
42	Green Synthesis of Novel Schiff Bases as Eco-friendly Corrosion Inhibitors for Mild Steel in Hydrochloric Acid. <i>ChemistrySelect</i> , 2018, 3, 12486-12494.	1.5	9
43	Experimental and theoretical insights into two fluorine-containing imidazoline Schiff base inhibitors for carbon steels in hydrochloric acid solution. <i>Journal of Molecular Structure</i> , 2022, 1268, 133737.	3.6	9
44	Design of a novel photoelectrochemical enzymatic biofuel cell with high power output under visible light. <i>Chemical Engineering Journal</i> , 2022, 431, 134037.	12.7	7
45	Effect of the passive films on CaCO <sub>3</sub> scale depositing on Q235 steel: Electrochemical and surface investigation. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 172-182.	9.4	6
46	Fabrication of an antimony doped tin oxide-graphene nanocomposite for highly effective capacitive deionization of saline water. <i>RSC Advances</i> , 2020, 10, 39130-39136.	3.6	5
47	1-Vinyl-3-Allyl Imidazolium Bromide as a New Corrosion Inhibitor for Carbon Steel in 1 M HCl Solution. <i>ChemistrySelect</i> , 2020, 5, 13511-13523.	1.5	3