

# Chao Wang

## List of Publications by Year in descending order

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51  
papers

1,604  
citations

331670

21  
h-index

302126

39  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1963  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | In Situ Construction of 3D Interconnected FeS@Fe <sub>3</sub> C@Graphitic Carbon Networks for High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1703390.      | 14.9 | 219       |
| 2  | Enhanced Sulfur Transformation by Multifunctional FeS <sub>2</sub> /FeS/S Composites for High-Volumetric Capacity Cathodes in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2019, 6, 1800815. | 11.2 | 178       |
| 3  | Interface Engineering via Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Electrolyte Additive toward Dendrite-Free Zinc Deposition. <i>Nano-Micro Letters</i> , 2021, 13, 89.                  | 27.0 | 130       |
| 4  | Gravimetric and volumetric energy densities of lithium-sulfur batteries. <i>Current Opinion in Electrochemistry</i> , 2017, 6, 92-99.   | 4.8  | 100       |
| 5  | Designing Li-protective layer via SOCl <sub>2</sub> additive for stabilizing lithium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 18, 222-228.   | 18.0 | 84        |
| 6  | Understanding and Controlling the Nucleation and Growth of Zn Electrodeposits for Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32930-32936.                | 8.0  | 71        |
| 7  | Effect of magnetic field on electroplating Ni/nano-Al <sub>2</sub> O <sub>3</sub> composite coating. <i>Journal of Electroanalytical Chemistry</i> , 2009, 630, 42-48.                              | 3.8  | 57        |
| 8  | Real time observation of the anodic dissolution of copper in NaCl solution with the digital holography. <i>Electrochemistry Communications</i> , 2009, 11, 1373-1376.                               | 4.7  | 53        |
| 9  | Study of the effects of hydrogen on the pitting processes of X70 carbon steel with SECM. <i>Electrochemistry Communications</i> , 2010, 12, 1804-1807.  | 4.7  | 47        |
| 10 | Investigation of the effects of the magnetic field on the anodic dissolution of copper in NaCl solutions with holography. <i>Corrosion Science</i> , 2012, 58, 69-78.                               | 6.6  | 41        |
| 11 | Rational Design of Unique ZnO/ZnS@N-C Heterostructures for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 905-912.                                | 4.6  | 41        |
| 12 | Effects of the magnetic field on the corrosion dissolution of the 304 SS <sup>+</sup> , FeCl <sub>3</sub> system. <i>Electrochimica Acta</i> , 2016, 222, 619-626.                                  | 5.2  | 35        |
| 13 | In-line digital holography for the study of dynamic processes of electrochemical reaction. <i>Electrochemistry Communications</i> , 2004, 6, 643-647.   | 4.7  | 33        |
| 14 | Study of the inhibitive effect of mixed self-assembled monolayers on copper with SECM. <i>Electrochimica Acta</i> , 2014, 115, 531-536.   | 5.2  | 33        |
| 15 | The nature of the potentiostatic current oscillations at iron/sulfuric acid solution interfaces. <i>Electrochimica Acta</i> , 1994, 39, 577-580.  | 5.2  | 31        |
| 16 | Effects of the Lorentz force and the gradient magnetic force on the anodic dissolution of nickel in HNO <sub>3</sub> + NaCl solution. <i>Electrochimica Acta</i> , 2014, 117, 113-119.              | 5.2  | 30        |
| 17 | Investigation of chloride-induced pitting processes of iron in the H <sub>2</sub> SO <sub>4</sub> solution by the digital holography. <i>Electrochemistry Communications</i> , 2004, 6, 1009-1015.  | 4.7  | 26        |
| 18 | Study of the protection performance of self-assembled monolayers on copper with the scanning electrochemical microscope. <i>Corrosion Science</i> , 2014, 80, 511-516.                              | 6.6  | 26        |

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|----|--|------|-----------|
| 19 | Mapping the transient concentration field within the diffusion layer by use of the digital holographic reconstruction. <i>Electrochemistry Communications</i> , 2008, 10, 392-396.                           | 4.7  | 24        |
| 20 | Numerical reconstruction of digital holograms for the study of pitting dynamic processes of the X70 carbon steel in NaCl solution. <i>Electrochemistry Communications</i> , 2008, 10, 103-107.               | 4.7  | 23        |
| 21 | An investigation on general corrosion and pitting of iron with the in-line digital holography. <i>Electrochimica Acta</i> , 2008, 53, 3109-3119.   | 5.2  | 23        |
| 22 | In Situ Synthesis and Unprecedented Electrochemical Performance of Double Carbon Coated Cross-Linked Co <sub>3</sub> O <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42372-42379. | 8.0  | 22        |
| 23 | Surface Protection and Interface Regulation for Zn Anode via 1-Hydroxy Ethylidene-1-Diphosphonic Acid Electrolyte Additive toward High-Performance Aqueous Batteries. <i>Small</i> , 2022, 18, e2107398.     | 10.0 | 22        |
| 24 | The inhibitive effects of AC-treated mixed self-assembled monolayers on copper corrosion. <i>Corrosion Science</i> , 2017, 120, 231-238.   | 6.6  | 20        |
| 25 | Uniform lithium deposition driven by vertical magnetic field for stable lithium anodes. <i>Solid State Ionics</i> , 2019, 341, 115033.   | 2.7  | 19        |
| 26 | Investigation of iron anodic process in acidic solution by holographic microphotography. <i>Electrochimica Acta</i> , 1994, 39, 731-736.   | 5.2  | 18        |
| 27 | Digital holographic study of the effect of magnetic field on the potentiostatic current oscillations of iron in sulfuric acid. <i>Journal of Electroanalytical Chemistry</i> , 2006, 586, 173-179.           | 3.8  | 17        |
| 28 | Dynamic observation of the diffusion layer in anodic processes of the Fe/H <sub>2</sub> SO <sub>4</sub> system with digital holography. <i>Electrochemistry Communications</i> , 2013, 27, 116-119.          | 4.7  | 16        |
| 29 | Effects of an applied magnetic field on the anodic dissolution of nickel in HNO <sub>3</sub> + Cl <sup>-</sup> solution. <i>Electrochemistry Communications</i> , 2009, 11, 2109-2112.                       | 4.7  | 14        |
| 30 | Oscillations of pH at the Fe <sup>2+</sup> /H <sub>2</sub> SO <sub>4</sub> interface during anodic dissolution. <i>Electrochemistry Communications</i> , 2017, 82, 103-106.                                  | 4.7  | 14        |
| 31 | Online Digital Holographic Method for Interface Reaction Monitoring in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24733-24739.   | 3.1  | 13        |
| 32 | In Situ Monitoring of Pitting Corrosion on Stainless Steel with Digital Holographic Surface Imaging. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3039-C3047.                                 | 2.9  | 10        |
| 33 | Communication-Trace Montmorillonite Electrolyte Additive Producing Stable Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3886-A3888.                                  | 2.9  | 10        |
| 34 | Effects of tensile stresses on the oscillatory electrodisolution of X70 carbon steel in sulfuric acid solution. <i>Corrosion Science</i> , 2015, 94, 445-451.  | 6.6  | 9         |
| 35 | Investigation into the Anodic Dissolution Processes of Copper in Neutral and Acidic Sulfate Solutions with the In-line Digital Holography. <i>Electrochemistry</i> , 2016, 84, 378-382.                      | 1.4  | 9         |
| 36 | Edge electrodeposition effect of cobalt under an external magnetic field. <i>Journal of Electroanalytical Chemistry</i> , 2020, 865, 114143.   | 3.8  | 9         |

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|----|--|-----|-----------|
| 37 | Designed oscillations of the Fe/H <sub>2</sub> SO <sub>4</sub> system with the flow injection in a partially-closed environment. <i>Electrochemistry Communications</i> , 2009, 11, 1888-1891.         | 4.7 | 8         |
| 38 | Sensing of the dynamic concentration field at the solid/liquid interface using a Mach-Zehnder interferometer. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 509-513.                           | 7.8 | 8         |
| 39 | Dynamic pitting processes of 316 stainless steel in NaCl+Na <sub>2</sub> CO <sub>3</sub> solution with digital holography. <i>Corrosion Communications</i> , 2021, 4, 57-67.                           | 6.0 | 8         |
| 40 | Effects of elastic deformation on the anodic dissolution of X70 carbon steel in sulfuric acid solution. <i>Electrochimica Acta</i> , 2012, 78, 609-614.  | 5.2 | 7         |
| 41 | Monitoring the Diffusion Layer During Passive Film Breakdown on Alloy 800 with Digital Holography. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1170-1174.                            | 2.9 | 7         |
| 42 | Communication—Direct Observation of the Shuttle Phenomenon in Lithium-Sulfur Batteries via the Digital Holographic Method. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2866-A2868.     | 2.9 | 7         |
| 43 | Effects of the magnetic field on the anodic dissolution of Ni <sup>2+</sup> /H <sub>3</sub> PO <sub>4</sub> + KSCN system. <i>Corrosion Science</i> , 2020, 169, 108614.                               | 6.6 | 6         |
| 44 | Effects of Chloride Ions and Nitrate Ions on the Anodic Dissolution of Iron in Sulfuric Acid Solution. <i>Metals</i> , 2020, 10, 1118.   | 2.3 | 5         |
| 45 | Automatic monitoring refractive index variations of transient solution during electrochemical reactions. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 98, 10-16. | 5.0 | 4         |
| 46 | In Situ-Derived Porous SiO <sub>2</sub> /Carbon Nanocomposite from Lichens for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800840.   | 3.8 | 4         |
| 47 | A hierarchical structure of a Co <sub>0.85</sub> Se@NC/ZnSe@NC yolk-double-shell polyhedron for long-term lithium storage. <i>Nanoscale</i> , 2021, 13, 7244-7251.                                     | 5.6 | 4         |
| 48 | Ant-nest-like Cu <sub>2</sub> Se@C with biomimetic channels boosts the cycling performance for lithium storage. <i>Dalton Transactions</i> , 2021, 50, 8330-8337.                                      | 3.3 | 4         |
| 49 | Effects of a Magnetic Field on the Intergranular Corrosion of Inconel 690 in NaCl Solution. <i>Frontiers in Materials</i> , 2022, 9, .   | 2.4 | 3         |
| 50 | Digital Holographic Study of pH Effects on Anodic Dissolution of Copper in Aqueous Chloride Electrolytes. <i>Metals</i> , 2020, 10, 487.   | 2.3 | 1         |
| 51 | Digital Holography Study of the Inhibitory Effects of Polyaspartic Acid on the Anodic Dissolution of Inconel-600. <i>Electrochemistry</i> , 2021, 89, 267-272.   | 1.4 | 1         |