Chao Wang

List of Publications by Year
in descending order

51	1,604	331670 21	302126 39
papers	citations	h-index	g-index

51	51	51	1963
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface Protection and Interface Regulation for Zn Anode via 1â€Hydroxy Ethylideneâ€1,1â€Diphosphonic Acid Electrolyte Additive toward Highâ€Performance Aqueous Batteries. Small, 2022, 18, e2107398.	10.0	22
2	Effects of a Magnetic Field on the Intergranular Corrosion of Inconel 690 in NaCl Solution. Frontiers in Materials, 2022, 9, .	2.4	3
3	A hierarchical structure of a Co_{0.85}Se@NC/ZnSe@NC yolk-double-shell polyhedron for long-term lithium storage. Nanoscale, 2021, 13, 7244-7251.	5.6	4
4	Ant-nest-like Cu_{2â^'x}Se@C with biomimetic channels boosts the cycling performance for lithium storage. Dalton Transactions, 2021, 50, 8330-8337.	3.3	4
5	Interface Engineering via Ti3C2Tx MXene Electrolyte Additive toward Dendrite-Free Zinc Deposition. Nano-Micro Letters, 2021, 13, 89.	27.0	130
6	Digital Holography Study of the Inhibitory Effects of Polyaspartic Acid on the Anodic Dissolution of Inconel^{Â®} 600. Electrochemistry, 2021, 89, 267-272.	1.4	1
7	Understanding and Controlling the Nucleation and Growth of Zn Electrodeposits for Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 32930-32936.	8.0	71
8	Dynamic pitting processes of 316 stainless steel in NaClÂ+ÂNa2CO3 solution with digital holography. Corrosion Communications, 2021, 4, 57-67.	6.0	8
9	Effects of Chloride Ions and Nitrate Ions on the Anodic Dissolution of Iron in Sulfuric Acid Solution. Metals, 2020, 10, 1118.	2.3	5
10	Effects of the magnetic field on the anodic dissolution of Niâ",H3PO4 + KSCN system. Corrosion Science, 2020, 169, 108614.	6.6	6
11	Rational Design of Unique ZnO/ZnS@N-C Heterostructures for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2020, 11, 905-912.	4.6	41
12	Digital Holographic Study of pH Effects on Anodic Dissolution of Copper in Aqueous Chloride Electrolytes. Metals, 2020, 10, 487.	2.3	1
13	Edge electrodeposition effect of cobalt under an external magnetic field. Journal of Electroanalytical Chemistry, 2020, 865, 114143.	3.8	9
14	Uniform lithium deposition driven by vertical magnetic field for stable lithium anodes. Solid State Ionics, 2019, 341, 115033.	2.7	19
15	In Situ Monitoring of Pitting Corrosion on Stainless Steel with Digital Holographic Surface Imaging. Journal of the Electrochemical Society, 2019, 166, C3039-C3047.	2.9	10
16	Enhanced Sulfur Transformation by Multifunctional FeS₂/FeS/S Composites for Highâ€Volumetric Capacity Cathodes in Lithiumâ€“Sulfur Batteries. Advanced Science, 2019, 6, 1800815.	11.2	178
17	Communicationâ€"Trace Montmorillonite Electrolyte Additive Producing Stable Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2019, 166, A3886-A3888.	2.9	10
18	Designing Li-protective layer via SOCl2 additive for stabilizing lithium-sulfur battery. Energy Storage Materials, 2019, 18, 222-228.	18.0	84

#	Article	IF	Citations
19	In Situâ€Derived Porous SiO 2 /Carbon Nanocomposite from Lichens for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1800840.	3.8	4
20	In Situ Synthesis and Unprecedented Electrochemical Performance of Double Carbon Coated Cross-Linked Co₃O₄. ACS Applied Materials & Interfaces, 2018, 10, 42372-42379.	8.0	22
21	Communicationâ€"Direct Observation of the Shuttle Phenomenon in Lithium-Sulfur Batteries via the Digital Holographic Method. Journal of the Electrochemical Society, 2018, 165, A2866-A2868.	2.9	7
22	The inhibitive effects of AC-treated mixed self-assembled monolayers on copper corrosion. Corrosion Science, 2017, 120, 231-238.	6.6	20
23	Online Digital Holographic Method for Interface Reaction Monitoring in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 24733-24739.	3.1	13
24	Gravimetric and volumetric energy densities of lithium-sulfur batteries. Current Opinion in Electrochemistry, 2017, 6, 92-99.	4.8	100
25	In Situ Construction of 3D Interconnected FeS@Fe₃C@Graphitic Carbon Networks for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1703390.	14.9	219
26	Oscillations of pH at the Feâ",H 2 SO 4 interface during anodic dissolution. Electrochemistry Communications, 2017, 82, 103-106.	4.7	14
27	Automatic monitoring refractive index variations of transient solution during electrochemical reactions. Measurement: Journal of the International Measurement Confederation, 2017, 98, 10-16.	5.0	4
28	Investigation into the Anodic Dissolution Processes of Copper in Neutral and Acidic Sulfate Solutions with the In-line Digital Holography. Electrochemistry, 2016, 84, 378-382.	1.4	9
29	Effects of the magnetic field on the corrosion dissolution of the 304 SSâ",FeCl3 system. Electrochimica Acta, 2016, 222, 619-626.	5.2	35
30	Monitoring the Diffusion Layer During Passive Film Breakdown on Alloy 800 with Digital Holography. Acta Metallurgica Sinica (English Letters), 2015, 28, 1170-1174.	2.9	7
31	Effects of tensile stresses on the oscillatory electrodissolution of X70 carbon steel in sulfuric acid solution. Corrosion Science, 2015, 94, 445-451.	6.6	9
32	Study of the inhibitive effect of mixed self-assembled monolayers on copper with SECM. Electrochimica Acta, 2014, 115, 531-536.	5.2	33
33	Effects of the Lorentz force and the gradient magnetic force on the anodic dissolution of nickel in HNO3+ NaCl solution. Electrochimica Acta, 2014, 117, 113-119.	5.2	30
34	Study of the protection performance of self-assembled monolayers on copper with the scanning electrochemical microscope. Corrosion Science, 2014, 80, 511-516.	6.6	26
35	Sensing of the dynamic concentration field at the solid/liquid interface using a Machâ€"Zehnder interferometer. Sensors and Actuators B: Chemical, 2013, 176, 509-513.	7.8	8
36	Dynamic observation of the diffusion layer in anodic processes of the Fe/H2SO4 system with digital holography. Electrochemistry Communications, 2013, 27, 116-119.	4.7	16

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37	Investigation of the effects of the magnetic field on the anodic dissolution of copper in NaCl solutions with holography. Corrosion Science, 2012, 58, 69-78.	6.6	41
38	Effects of elastic deformation on the anodic dissolution of X70 carbon steel in sulfuric acid solution. Electrochimica Acta, 2012, 78, 609-614.	5.2	7
39	Study of the effects of hydrogen on the pitting processes of X70 carbon steel with SECM. Electrochemistry Communications, 2010, 12, 1804-1807.	4.7	47
40	Effect of magnetic field on electroplating Ni/nano-Al2O3 composite coating. Journal of Electroanalytical Chemistry, 2009, 630, 42-48.	3.8	57
41	Real time observation of the anodic dissolution of copper in NaCl solution with the digital holography. Electrochemistry Communications, 2009, 11, 1373-1376.	4.7	53
42	Designed oscillations of the Fe/H2SO4 system with the flow injection in a partially-closed environment. Electrochemistry Communications, 2009, 11, 1888-1891.	4.7	8
43	Effects of an applied magnetic field on the anodic dissolution of nickel in HNO3 + Clâ" solution. Electrochemistry Communications, 2009, 11, 2109-2112.	4.7	14
44	Mapping the transient concentration field within the diffusion layer by use of the digital holographic reconstruction. Electrochemistry Communications, 2008, 10, 392-396.	4.7	24
45	Numerical reconstruction of digital holograms for the study of pitting dynamic processes of the X70 carbon steel in NaCl solution. Electrochemistry Communications, 2008, 10, 103-107.	4.7	23
46	An investigation on general corrosion and pitting of iron with the in-line digital holography. Electrochimica Acta, 2008, 53, 3109-3119.	5.2	23
47	Digital holographic study of the effect of magnetic field on the potentiostatic current oscillations of iron in sulfuric acid. Journal of Electroanalytical Chemistry, 2006, 586, 173-179.	3.8	17
48	In-line digital holography for the study of dynamic processes of electrochemical reaction. Electrochemistry Communications, 2004, 6, 643-647.	4.7	33
49	Investigation of chloride-induced pitting processes of iron in the H2SO4 solution by the digital holography. Electrochemistry Communications, 2004, 6, 1009-1015.	4.7	26
50	Investigation of iron anodic process in acidic solution by holographic microphotography. Electrochimica Acta, 1994, 39, 731-736.	5.2	18
51	The nature of the potentiostatic current oscillations at iron/sulfuric acid solution interfaces. Electrochimica Acta, 1994, 39, 577-580.	5.2	31