Xuegeng Yang

List of Publications by Year
in descending order

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54 papers	1,323 citations	279798 23 h-index	377865 34 g-index
54 all docs	54 docs citations	54 times ranked	1151 citing authors

#	Article	IF	Citations
1	Dynamics of Single Hydrogen Bubbles at a Platinum Microelectrode. Langmuir, 2015, 31, 8184-8193.	3.5	93
2	Cytocompatible, Injectable, and Electroconductive Soft Adhesives with Hybrid Covalent/Noncovalent Dynamic Network. Advanced Science, 2019, 6, 1802077.	11.2	84
3	Marangoni convection at electrogenerated hydrogen bubbles. Physical Chemistry Chemical Physics, 2018, 20, 11542-11548.	2.8	71
4	Reversibly Assembled Electroconductive Hydrogel via a Hostâ€“Guest Interaction for 3D Cell Culture. ACS Applied Materials & Interfaces, 2019, 11, 7715-7724.	8.0	69
5	Noncovalently Assembled Electroconductive Hydrogel. ACS Applied Materials & Interfaces, 2018, 10, 14418-14425.	8.0	50
6	Design and Validation of a Bioreactor for Simulating the Cardiac Niche: A System Incorporating Cyclic Stretch, Electrical Stimulation, and Constant Perfusion. Tissue Engineering - Part A, 2013, 19, 403-414.	3.1	46
7	Oscillating Hydrogen Bubbles at Pt Microelectrodes. Physical Review Letters, 2019, 123, 214503.	7.8	45
8	Thermocapillary convection during hydrogen evolution at microelectrodes. Electrochimica Acta, 2019, 297, 929-940.	5.2	45
9	On the Electrolyte Convection around a Hydrogen Bubble Evolving at a Microelectrode under the Influence of a Magnetic Field. Journal of the Electrochemical Society, 2016, 163, E248-E257.	2.9	44
10	Structured electrodeposition in magnetic gradient fields. European Physical Journal: Special Topics, 2013, 220, 287-302.	2.6	39
11	Protection of self-assembled monolayers formed from triethyl phosphate and mixed self-assembled monolayers from triethyl phosphate and cetyltrimethyl ammonium bromide for copper against corrosion. Electrochimica Acta, 2006, 52, 108-113.	5.2	35
12	Magnetic separation of Dy(III) ions from homogeneous aqueous solutions. Applied Physics Letters, 2014, 105, .	3.3	34
13	Simple method for preparation of cubic Ag nanoparticles and their self-assembled films. Thin Solid Films, 2004, 460, 78-82.	1.8	33
14	In-line digital holography for the study of dynamic processes of electrochemical reaction. Electrochemistry Communications, 2004, 6, 643-647.	4.7	33
15	Enrichment of Paramagnetic Ions from Homogeneous Solutions in Inhomogeneous Magnetic Fields. Journal of Physical Chemistry Letters, 2012, 3, 3559-3564.	4.6	33
16	Lorentz-force-driven convection during copper magnetoelectrolysis in the presence of a supporting buoyancy force. Electrochimica Acta, 2012, 69, 209-219.	5.2	32
17	Synthesis of copper nanorods using electrochemical methods. Journal of the Serbian Chemical Society, 2003, 68, 843-847.	0.8	31
18	How to obtain structured metal deposits from diamagnetic ions in magnetic gradient fields?. Electrochemistry Communications, 2011, 13, 946-950.	4.7	29

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19	Growth and detachment of single hydrogen bubbles in a magnetohydrodynamic shear flow. Physical Review Fluids, 2017, 2, .	2.5	28
20	A convenient phase transfer route for Ag nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 92-96.	2.7	27
21	The concentration field during transient natural convection between vertical electrodes in a small-aspect-ratio cell. Journal of Electroanalytical Chemistry, 2008, 613, 97-107.	3.8	27
22	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
23	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
24	The start-up of natural convection during copper electrolysis in the presence of an opposing Lorentz force. Electrochimica Acta, 2008, 54, 352-359.	5.2	24
25	An investigation on general corrosion and pitting of iron with the in-line digital holography. Electrochimica Acta, 2008, 53, 3109-3119.	5.2	23
26	Dynamics of single hydrogen bubbles at Pt microelectrodes in microgravity. Physical Chemistry Chemical Physics, 2021, 23, 11818-11830.	2.8	20
27	Mass transfer and electrolyte flow during electrodeposition on a conically shaped electrode under the influence of a magnetic field. Journal of Electroanalytical Chemistry, 2019, 842, 203-213.	3.8	18
28	Investigation into Designed Current Oscillations during Electrodissolution in Sulfuric Acid Solution. Journal of the Electrochemical Society, 2002, 149, B174.	2.9	17
29	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
30	On the decay of the Lorentz-force-driven convection in vertical concentration stratification during magnetoelectrolysis. Electrochimica Acta, 2009, 54, 7056-7065.	5.2	17
31	Severe corrosion behavior of Fe78Si9B13 glassy alloy under magnetic field. Journal of Non-Crystalline Solids, 2014, 392-393, 51-58.	3.1	17
32	On the homogenization of the thickness of Cu deposits by means of MHD convection within small dimension cells. Electrochemistry Communications, 2013, 36, 80-83.	4.7	15
33	Oscillatory Lorentz-force-driven flows during potentiostatic current oscillations in magnetic fields. Electrochemistry Communications, 2010, 12, 1576-1580.	4.7	13
34	Numerical simulation of the onset of mass transfer and convection in copper electrolysis subjected to a magnetic field. Russian Journal of Electrochemistry, 2012, 48, 682-691.	0.9	13
35	Measuring the diameter of rising gas bubbles by means of the ultrasound transit time technique. Nuclear Engineering and Design, 2015, 291, 64-70.	1.7	13
36	The initial transient of natural convection during copper electrolysis in the presence of an opposing Lorentz force: Current dependence. European Physical Journal: Special Topics, 2013, 220, 303-312.	2.6	12

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37	Rhodium-decorated nanoconical nickel electrode synthesis and characterization as an electrochemical active cathodic material for hydrogen production. Applied Surface Science, 2022, 592, 153326.	6.1	12
38	Pitting corrosion induced current oscillations during electrodissolution of Al in HClO4 solutions. Journal of Electroanalytical Chemistry, 2004, 572, 41-49.	3.8	11
39	Experiments on the magnetic enrichment of rare-earth metal ions in aqueous solutions in a microflow device. Journal of Flow Chemistry, 2019, 9, 175-185.	1.9	11
40	Experimental and numerical investigations of Niâ€“Coâ€“SiO2 alloy films deposited by magnetic-field-assisted jet plating. Surface and Coatings Technology, 2021, 423, 127583.	4.8	11
41	Pulse magnetoelectrolysis. Electrochemistry Communications, 2009, 11, 318-322.	4.7	10
42	Magnetic Separation of Paramagnetic Ions From Initially Homogeneous Solutions. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	9
43	Interplay of the Open Circuit Potential-Relaxation and the Dissolution Behavior of a Single H2Bubble Generated at a Pt Microelectrode. Journal of Physical Chemistry C, 2016, 120, 15137-15146.	3.1	9
44	Mitigating Meniscus Instabilities in Solution-Sheared Polymer Films for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 30079-30088.	8.0	9
45	Space- and time-resolved interferometric measurements of the thermal boundary layer at a periodically magnetized gadolinium plate. International Journal of Refrigeration, 2015, 56, 246-255.	3.4	7
46	Investigation of the pitting of aluminum induced by chloride ions by holographic microphotography. Journal of the Serbian Chemical Society, 2008, 73, 561-568.	0.8	6
47	Effect of deposition current density on the Coâ€“Ni/SiO₂ alloy composite coatings using scanning jet electrodeposition. Surface Topography: Metrology and Properties, 2021, 9, 015027.	1.6	6
48	Oscillatory Copper Deposition on Conical Iron Electrodes in a Nonuniform Magnetic Field. Magnetochemistry, 2021, 7, 46.	2.4	5
49	Oscillatory surface deformation of paramagnetic rare-earth solutions driven by an inhomogeneous magnetic field. Physical Review E, 2020, 101, 062601.	2.1	4
50	Application of in situ digital holography to the study of the effect of a magnetic field on the anodic dissolution of iron in thichloroacetic acid. Journal of the Serbian Chemical Society, 2006, 71, 67-73.	0.8	4
51	Effect of microenvironment on the potentiostatic-current oscillation of iron electrode in sulfuric acid solution. Russian Journal of Electrochemistry, 2006, 42, 491-496.	0.9	3
52	Batch reactor vs. flow column â€“ Mechanistic investigation and modeling of Au(III) ions adsorption from aqueous solutions containing Ni2+, Na+, Clâ^' and ClO4â^' as impurities. Sustainable Materials and Technologies, 2020, 23, e00142.	3.3	3
53	Numerical simulation of mass transfer and convection near a hydrogen bubble during water electrolysis in a magnetic field. Magnetohydrodynamics, 2017, 53, 193-200.	0.3	3
54	Localization of rare earth ions in an inhomogeneous magnetic field toward their magnetic separation. Journal of Rare Earths, 2022, 40, 1598-1605.	4.8	3