

Jia-Wei Yan

List of Publications by Year in descending order

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86
papers

3,861
citations

147801

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128289

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all docs

90
docs citations

90
times ranked

5411
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical interfaces in ionic liquids/deep eutectic solvents incorporated with water: A review. <i>Electrochemical Science Advances</i> , 2023, 3, .	2.8	4
2	Copper Deposition on Au(111) in a Deep Eutectic Solvent: An In Situ STM Study**. <i>ChemElectroChem</i> , 2022, 9, .	3.4	10
3	A robust interphase via in-situ pre-reconfiguring lithium anode surface for long-term lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , 2022, 72, 186-194.	12.9	16
4	Efficient plasmon-enhanced perovskite solar cells by molecularly isolated gold nanorods. <i>Journal of Energy Chemistry</i> , 2022, , .	12.9	1
5	Defect Passivation by a Multifunctional Phosphate Additive toward Improvements of Efficiency and Stability of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31911-31919.	8.0	6
6	Surface electrochemistry approaches for understanding and creating smooth solid-electrolyte interphase and lithiophilic interfaces for lithium metal anodes. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100671.	4.8	8
7	Electrochemistry of complex molecular and biomolecular scale entities. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100670.	4.8	0
8	Voltammetry and Single-Molecule In Situ Scanning Tunnelling Microscopy of the Redox Metalloenzyme Human Sulfite Oxidase. <i>ChemElectroChem</i> , 2021, 8, 164-171.	3.4	9
9	Atomically thin photoanode of InSe/graphene heterostructure. <i>Nature Communications</i> , 2021, 12, 91.	12.8	26
10	Charge Transfer Kinetics at Ag(111) Single Crystal Electrode/Ionic Liquid Interfaces: Dependence on the Cation Alkyl Side Chain Length. <i>ChemElectroChem</i> , 2021, 8, 983-990.	3.4	4
11	Ferrocene-Based Metal-Organic Framework Nanosheets as a Robust Oxygen Evolution Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12770-12774.	13.8	111
12	Ferrocene-Based Metal-Organic Framework Nanosheets as a Robust Oxygen Evolution Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 12880-12884.	2.0	4
13	Stability of Perovskite Thin Films under Working Condition: Bias-Dependent Degradation and Grain Boundary Effects. <i>Advanced Functional Materials</i> , 2021, 31, 2103894.	14.9	28
14	The role of ruthenium in improving the kinetics of hydrogen oxidation and evolution reactions of platinum. <i>Nature Catalysis</i> , 2021, 4, 711-718.	34.4	182
15	Electrochemical impedance spectroscopy and Raman spectroscopy studies on electrochemical interface between Au(111) electrode and ethaline deep eutectic solvent. <i>Electrochimica Acta</i> , 2021, 390, 138859.	5.2	14
16	Revealing phase evolution mechanism for stabilizing formamidinium-based lead halide perovskites by a key intermediate phase. <i>CheM</i> , 2021, 7, 2513-2526.	11.7	49
17	Single-molecule anisotropic magnetoresistance at room temperature: Influence of molecular structure. <i>Electrochimica Acta</i> , 2021, 389, 138760.	5.2	10
18	Formation sequence of solid electrolyte interphases and impacts on lithium deposition and dissolution on copper: an in situ atomic force microscopic study. <i>Faraday Discussions</i> , 2021, 233, 190-205.	3.2	14

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19	Effect of hydrogen bond donor molecules ethylene glycerol and lactic acid on electrochemical interfaces in choline chloride based-deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2021, 155, 244702.	3.0	10
20	Water-induced mica/ionic liquid interfacial nanostructure switches revealed by AFM. <i>Chemical Communications</i> , 2020, 56, 15064-15067.	4.1	4
21	Adding salt to expand voltage window of humid ionic liquids. <i>Nature Communications</i> , 2020, 11, 5809.	12.8	60
22	Evaluating Solid-Electrolyte Interphases for Lithium and Lithium-free Anodes from Nanoindentation Features. <i>CheM</i> , 2020, 6, 2728-2745.	11.7	44
23	An In Situ Scanning Tunneling Microscopy Study on the Electrochemical Interface between Au(111) and Ethaline Deep Eutectic Solvent. <i>ChemElectroChem</i> , 2020, 7, 4601-4605.	3.4	18
24	Structural Exploration of Multilayered Ionic Liquid/Ag Electrode Interfaces by Atomic Force Microscopy and Surface-Enhanced Raman Spectroscopy. <i>ChemElectroChem</i> , 2020, 7, 4936-4942.	3.4	8
25	Electronic Spillover from a Metallic Nanoparticle: Can Simple Electrochemical Electron Transfer Processes Be Catalyzed by Electronic Coupling of a Molecular Scale Gold Nanoparticle Simultaneously to the Redox Molecule and the Electrode?. <i>Journal of the American Chemical Society</i> , 2020, 142, 10646-10658.	13.7	16
26	Electrochemical Polishing of Lithium Metal Surface for Highly Demanding Solid-Electrolyte Interphase. <i>ChemElectroChem</i> , 2019, 6, 181-188.	3.4	30
27	Chemistry of cysteine assembly on Au(100): electrochemistry, <i>in situ</i> STM and molecular modeling. <i>Nanoscale</i> , 2019, 11, 17235-17251.	5.6	9
28	A template-directed bifunctional NiS _x /nitrogen-doped mesoporous carbon electrocatalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19889-19897.	10.3	43
29	Mitigating concentration polarization for highly reversible plating/stripping electrochemistry: Li versus Na. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23216-23224.	10.3	11
30	In-situ STM and AFM Studies on Electrochemical Interfaces in imidazolium-based ionic liquids. <i>Electrochimica Acta</i> , 2019, 309, 11-17.	5.2	34
31	Stable Na Plating and Stripping Electrochemistry Promoted by In Situ Construction of an Alloy-Based Sodiophilic Interphase. <i>Advanced Materials</i> , 2019, 31, e1807495.	21.0	135
32	Lithiophilic Faceted Cu(100) Surfaces: High Utilization of Host Surface and Cavities for Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3092-3096.	13.8	122
33	Toward Long-Term Stability: Single-Crystal Alloys of Cesium-Containing Mixed Cation and Mixed Halide Perovskite. <i>Journal of the American Chemical Society</i> , 2019, 141, 1665-1671.	13.7	141
34	Designable ultra-smooth ultra-thin solid-electrolyte interphases of three alkali metal anodes. <i>Nature Communications</i> , 2018, 9, 1339.	12.8	265
35	An in-situ Raman spectroscopic study on the cathodic process of EMITFSI ionic liquid on Ag electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 435-441.	3.8	7
36	Minimizing the electrosorption of water from humid ionic liquids on electrodes. <i>Nature Communications</i> , 2018, 9, 5222.	12.8	96

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37	Electrochemical Impedance Spectroscopy for Real-Time Detection of Lipid Membrane Damage Based on a Porous Self-Assembly Monolayer Support. <i>Analytical Chemistry</i> , 2018, 90, 7422-7427.	6.5	24
38	Plasmoelectric Potential Mapping of a Single Nanoparticle. <i>ACS Photonics</i> , 2018, 5, 3519-3525.	6.6	16
39	Understanding the Cubic Phase Stabilization and Crystallization Kinetics in Mixed Cations and Halides Perovskite Single Crystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 3320-3323.	13.7	195
40	Molecular-level understanding of electric double layer in ionic liquids. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 105-111.	4.8	30
41	Theory of Microwell Arrays Performing as Generatorsâ€œCollectors Based on a Single Bipolar Plane Electrode. <i>ChemElectroChem</i> , 2016, 3, 487-494.	3.4	12
42	Self-Supporting Metal-Organic Layers as Single-Site Solid Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4962-4966.	13.8	303
43	The Electric Double Layer in an Ionic Liquid Incorporated with Water Molecules: Atomic Force Microscopy Force Curve Study. <i>ChemElectroChem</i> , 2016, 3, 2221-2226.	3.4	48
44	InnenÃ¼cktitelbild: Self-Supporting Metal-Organic Layers as Single-Site Solid Catalysts (<i>Angew. Chem.</i>) Tj ETQq0 0,0 rgBT /Qverlock 10	2.0	0
45	An electrochemical surface-enhanced Raman spectroscopic study on nanorod-structured lithium prepared by electrodeposition. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1017-1023.	2.5	30
46	Adsorption of Dye Molecules on Single Crystalline Semiconductor Surfaces: An Electrochemical Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22500-22507.	3.1	15
47	Enhancing the Bipolar Redox Cycling Efficiency of Plane-Recessed Microelectrode Arrays by Adding a Chemically Irreversible Interferent. <i>Analytical Chemistry</i> , 2016, 88, 8535-8541.	6.5	6
48	Single molecular catalysis of a redox enzyme on nanoelectrodes. <i>Faraday Discussions</i> , 2016, 193, 133-139.	3.2	38
49	Self-Supporting Metal-Organic Layers as Single-Site Solid Catalysts. <i>Angewandte Chemie</i> , 2016, 128, 5046-5050.	2.0	61
50	The electrochemical interface of Ag(111) in 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquidâ€œA combined in-situ scanning probe microscopy and impedance study. <i>Electrochimica Acta</i> , 2016, 197, 282-289.	5.2	37
51	Enzyme-Encapsulated Liposome-Linked Immunosorbent Assay Enabling Sensitive Personal Glucose Meter Readout for Portable Detection of Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6890-6897.	8.0	71
52	Intermixed Adatom and Surface-Bound Adsorbates in Regular Self-Assembled Monolayers of Racemic 2-Butanethiol on Au(111). <i>ChemPhysChem</i> , 2015, 16, 928-932.	2.1	18
53	Fluorescence sensing of chromium (VI) and ascorbic acid using graphitic carbon nitride nanosheets as a fluorescent â€œswitchâ€œ. <i>Biosensors and Bioelectronics</i> , 2015, 68, 210-217.	10.1	250
54	An in situ STM investigation of EMITFSI ionic liquid on Au(111) in the presence of lithium salt. <i>Science Bulletin</i> , 2015, 60, 877-883.	9.0	7

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55	Regulation of vascular smooth muscle cell autophagy by DNA nanotube-conjugated mTOR siRNA. <i>Biomaterials</i> , 2015, 67, 137-150.	11.4	38
56	Electrochemical and in-situ scanning tunneling microscopy studies of bis(fluorosulfonyl)imide and bis(trifluoromethanesulfonyl)imide based ionic liquids on graphite and gold electrodes and lithium salt influence. <i>Journal of Power Sources</i> , 2015, 293, 187-195.	7.8	31
57	Inhibition of DNA nanotube-conjugated mTOR siRNA on the growth of pulmonary arterial smooth muscle cells. <i>Data in Brief</i> , 2015, 5, 28-34.	1.0	2
58	Double electrode systems with microelectrode arrays for electrochemical measurements. <i>Reviews in Analytical Chemistry</i> , 2015, 34, .	3.2	11
59	Ionic Liquid Based Approach for Single-Molecule Electronics with Cobalt Contacts. <i>Langmuir</i> , 2014, 30, 14329-14336.	3.5	19
60	A new strategy for eliminating interference from EC mechanism during analytical measurements based on plane-band-recessed microdisk array electrodes. <i>Electrochemistry Communications</i> , 2014, 38, 61-64.	4.7	10
61	Extending the shell-isolated nanoparticle-enhanced Raman spectroscopy approach to interfacial ionic liquids at single crystal electrode surfaces. <i>Chemical Communications</i> , 2014, 50, 14740-14743.	4.1	40
62	Resolving Fine Structures of the Electric Double Layer of Electrochemical Interfaces in Ionic Liquids with an AFM Tip Modification Strategy. <i>Journal of the American Chemical Society</i> , 2014, 136, 14682-14685.	13.7	71
63	Strategy for Increasing the Electrode Density of Microelectrode Arrays by Utilizing Bipolar Behavior of a Metallic Film. <i>Analytical Chemistry</i> , 2014, 86, 3138-3145.	6.5	20
64	Selective detection by depleting interferent in diffusion layer based on a combination of pre-depletion pulse and differential pulse voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 40-44.	3.8	2
65	Electric Double Layer of Au(100)/Imidazolium-Based Ionic Liquids Interface: Effect of Cation Size. <i>Journal of Physical Chemistry C</i> , 2013, 117, 205-212.	3.1	63
66	Measurement of the Quantum Conductance of Germanium by an Electrochemical Scanning Tunneling Microscope Break Junction Based on a Jump-Contact Mechanism. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2401-2406.	3.3	3
67	Theoretical Investigation of Generator-Collector Microwell Arrays for Improving Electroanalytical Selectivity: Application to Selective Dopamine Detection in the Presence of Ascorbic Acid. <i>ChemPhysChem</i> , 2013, 14, 1887-1898.	2.1	29
68	On the Hopping Efficiency of Nanoparticles in the Electron Transfer across Self-Assembled Monolayers. <i>ChemPhysChem</i> , 2013, 14, 952-957.	2.1	24
69	Probing double layer structures of Au (111)-BMIPF ₆ ionic liquid interfaces from potential-dependent AFM force curves. <i>Chemical Communications</i> , 2012, 48, 582-584.	4.1	114
70	Electrochemical Impedance Spectroscopy and Atomic Force Microscopic Studies of Electrical and Mechanical Properties of Nano-Black Lipid Membranes and Size Dependence. <i>Langmuir</i> , 2012, 28, 14739-14746.	3.5	26
71	Adsorption of Solvent Cations on Au(111) and Au(100) in Alkylimidazolium-Based Ionic Liquids - Worm-Like versus Micelle-Like Structures. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 979-994.	2.8	44
72	Functionalization of graphene by tetraphenylethylene using nitrene chemistry. <i>RSC Advances</i> , 2012, 2, 7042.	3.6	28

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73	Comparative Electrochemical Scanning Tunneling Microscopy Study of Nonionic Fluorosurfactant Zonyl FSN Self-Assembled Monolayers on Au(111) and Au(100): A Potential-Induced Structural Transition. <i>Langmuir</i> , 2011, 27, 943-947.	3.5	13
74	A strategy for selective detection based on interferent depleting and redox cycling using the plane-recessed microdisk array electrodes. <i>Electrochimica Acta</i> , 2011, 56, 8101-8107.	5.2	33
75	The Electrode/Ionic Liquid Interface: Electric Double Layer and Metal Electrodeposition. <i>ChemPhysChem</i> , 2010, 11, 2764-2778.	2.1	141
76	An electrochemical method for selective detection of dopamine by depleting ascorbic acid in diffusion layer. <i>Journal of Electroanalytical Chemistry</i> , 2010, 640, 51-55.	3.8	12
77	STM Study on Nonionic Fluorosurfactant Zonyl FSN Self-Assembly on Au(100): (3×3) Molecular Lattice, Corrugations, and Adsorbate-Enhanced Mobility. <i>Langmuir</i> , 2010, 26, 3829-3834.	3.5	13
78	Double Layer of Au(100)/Ionic Liquid Interface and Its Stability in Imidazolium-Based Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5148-5151.	13.8	171
79	Colloidal lithography-based fabrication of suspended nanoporous silicon nitride membranes. <i>Mikrochimica Acta</i> , 2009, 167, 135-140.	5.0	4
80	An STM Study on Nonionic Fluorosurfactant Zonyl FSN Self-Assembly on Au(111): Large Domains, Few Defects, and Good Stability. <i>Langmuir</i> , 2008, 24, 13245-13249.	3.5	22
81	In Situ STM Studies on the Underpotential Deposition of Antimony on Au(111) and Au(100) in a BMIBF ₄ Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10467-10477.	3.1	22
82	An in situ STM study of cobalt electrodeposition on Au(111) in BMIBF ₄ ionic liquid. <i>Journal of Experimental Nanoscience</i> , 2006, 1, 269-278.	2.4	24
83	Electrochemical preparation and abnormal infrared effects of nanostructured Ni thin film. <i>Science Bulletin</i> , 2004, 49, 442-446.	1.7	3
84	Electrochemical Growth of Three-Dimensional Nanostripe Architecture of Antimony on Cu(100). <i>Journal of Physical Chemistry B</i> , 2004, 108, 2773-2776.	2.6	6
85	Electrochemically Roughened Rhodium Electrode as a Substrate for Surface-enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 899-902.	2.6	43
86	IN SITU PHOTOLUMINESCENCE STUDIES OF SILICON SURFACES DURING PHOTOELECTROCHEMICAL ETCHING PROCESSES. <i>Surface Review and Letters</i> , 2001, 08, 327-335.	1.1	2