Janine Mauzeroll

List of Publications by Year
in descending order

118	2,773	172207	214527
papers	citations	29 h-index	47 g-index

123	123	123	2782
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of Oxidation- and Acid-Sensitive Assemblies from Sterols and a Quaternary Ammonium Ferrocene Derivative: Quatsome- and Onion-like Vesicles and Extended Nanoribbons. Langmuir, 2022, 38, 4396-4406.	1.6	1
2	Potentiodynamic polarization curves of AA7075 at high scan rates interpreted using the high field model. Npj Materials Degradation, 2022, 6, .	2.6	10
3	NGenE 2021: Electrochemistry Is Everywhere. ACS Energy Letters, 2022, 7, 368-374.	8.8	6
4	Manufacturing and Tribological Behavior of Self-Lubricating Duplex Composites: Graphite-Reinforced Polymer Composites and Polymer-Infiltrated Metal Networks. Journal of Materials Engineering and Performance, 2021, 30, 103-115.	1.2	4
5	Recent Advances in Bioâ€Templated Metallic Nanomaterial Synthesis and Electrocatalytic Applications. ChemSusChem, 2021, 14, 758-791.	3.6	24
6	Portable and sustainable activated carbon-based device for electro-assisted water purification. Environmental Science: Water Research and Technology, 2021, 7, 622-629.	1.2	0
7	Editorsâ€™ Choiceâ€”A Miniaturized Enzymatic Biosensor for Detection of Sensory-Evoked D-serine Release in the Brain. Journal of the Electrochemical Society, 2021, 168, 025502.	1.3	8
8	Determining the effect of dissolved CO2 on solution phase Li+ diffusion in common Li-ion battery electrolytes. Electrochemistry Communications, 2021, 125, 106979.	2.3	2
9	Quantitative measurements of free and immobilized RgDAAO Michaelis-Menten constant using an electrochemical assay reveal the impact of covalent cross-linking on substrate specificity. Analytical and Bioanalytical Chemistry, 2021, 413, 6793-6802.	1.9	4
10	Enhancing Electrochemical Biosensor Selectivity with Engineered <scp>d</scp>-Amino Acid Oxidase Enzymes for <scp>d</scp>-Serine and <scp>d</scp>-Alanine Quantification. ACS Applied Bio Materials, 2021, 4, 5598-5604.	2.3	9
11	Ag⁺ Interference from Ag/AgCl Wire Quasi-Reference Counter Electrode Inducing Corrosion Potential Shift in an Oil-Immersed Scanning Micropipette Contact Method Measurement. Analytical Chemistry, 2021, 93, 9657-9662.	3.2	17
12	Structural dependence of effective mass transport properties in lithium battery electrodes. Journal of Power Sources, 2021, 504, 230069.	4.0	2
13	EDTA-Gradient Loading of Doxorubicin into Ferrocene-Containing Liposomes: Effect of Lipid Composition and Visualization of Triggered Release by Cryo-TEM. Langmuir, 2021, 37, 11222-11232.	1.6	2
14	Nanometals templated by tobacco mosaic virus coat protein with enhanced catalytic activity. Applied Catalysis B: Environmental, 2021, 298, 120540.	10.8	7
15	Wear resistant solid lubricating coatings via compression molding and thermal spraying technologies. Surface and Coatings Technology, 2021, 426, 127790.	2.2	10
16	Tunable Assembly of Protein Enables Fabrication of Platinum Nanostructures with Different Catalytic Activity. ACS Applied Materials & Interfaces, 2021, 13, 52588-52597.	4.0	4
17	High-Throughput Strategy for Glycine Oxidase Biosensor Development Reveals Glycine Release from Cultured Cells. Analytical Chemistry, 2021, , .	3.2	1
18	Effective Mass Transport Properties in Lithium Battery Electrodes. ACS Applied Energy Materials, 2020, 3, 440-446.	2.5	19

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19	Corrosion of One-Step Superhydrophobic Stainless-Steel Thermal Spray Coatings. ACS Applied Materials & Interfaces, 2020, 12, 1523-1532.	4.0	33
20	Operando Tracking of Solution-Phase Concentration Profiles in Li-Ion Battery Positive Electrodes Using X-ray Fluorescence. Analytical Chemistry, 2020, 92, 10908-10912.	3.2	11
21	Oil-Immersed Scanning Micropipette Contact Method Enabling Long-term Corrosion Mapping. Analytical Chemistry, 2020, 92, 12415-12422.	3.2	30
22	Charge Storage in Graphene Oxide: Impact of the Cation on Ion Permeability and Interfacial Capacitance. Analytical Chemistry, 2020, 92, 10300-10307.	3.2	7
23	Super-resolution Scanning Electrochemical Microscopy. Analytical Chemistry, 2020, 92, 3958-3963.	3.2	12
24	Polymers with intrinsic microporosity (PIMs) for targeted CO2 reduction to ethylene. Chemosphere, 2020, 248, 125993.	4.2	30
25	Boosting CO2 Reduction: Creating an Efficient Path for Gas Transport. Joule, 2020, 4, 712-714.	11.7	3
26	Designing Amino Acid Detecting Electrochemical Biosensors for Health Research Applications. ECS Meeting Abstracts, 2020, MA2020-01, 2536-2536.	0.0	0
27	In-situ dynamic reaction of Ag NPs: Strategy for the construction of a sensitive electrochemical chiral sensor. Sensors and Actuators B: Chemical, 2020, 319, 128315.	4.0	7
28	Prefaceâ€"JES Focus Issue on Organic and Inorganic Molecular Electrochemistry. Journal of the Electrochemical Society, 2020, 167, 150001.	1.3	0
29	Electrogenerated chemiluminescence (ECL). , 2020, , 285-314.		0
30	Enhanced Ethylene Selectivity during CO₂ Reduction Using Polymers with Intrinsic Microporosity at Copper Gas Diffusion Electrodes. ECS Meeting Abstracts, 2020, MA2020-02, 3255-3255.	0.0	0
31	Using macro and micro electrochemical methods to understand the corrosion behavior of stainless steel thermal spray coatings. Npj Materials Degradation, 2019, 3, .	2.6	21
32	Identifying Nanoscale Pinhole Defects in Nitroaryl Layers with Scanning Electrochemical Cell Microscopy. ChemElectroChem, 2019, 6, 5439-5445.	1.7	12
33	Demystifying Mathematical Modeling of Electrochemical Systems. Journal of Chemical Education, 2019, 96, 2217-2224.	1.1	19
34	Biosynthesized silver nanorings as a highly efficient and selective electrocatalysts for CO₂ reduction. Nanoscale, 2019, 11, 18595-18603.	2.8	12
35	Bottomâ€Up Characterization and Selfâ€Assembly of Electrogenerated Chemiluminescence Active Ruthenium Nanospheres. ChemElectroChem, 2019, 6, 3499-3506.	1.7	1
36	Pourbaix Diagrams as a Simple Route to First Principles Corrosion Simulation. Journal of the Electrochemical Society, 2019, 166, C3186-C3192.	1.3	22

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37	Reviewâ€"Microelectrodes: An Overview of Probe Development and Bioelectrochemistry Applications from 2013 to 2018. Journal of the Electrochemical Society, 2019, 166, G25-G38.	1.3	30
38	Redox-Triggered Disassembly of Nanosized Liposomes Containing Ferrocene-Appended Amphiphiles. Langmuir, 2019, 35, 5608-5616.	1.6	9
39	Evaluating the Use of Edge Detection in Extracting Feature Size from Scanning Electrochemical Microscopy Images. Analytical Chemistry, 2019, 91, 3944-3950.	3.2	13
40	Electrochemical Behavior, Microstructure, and Surface Chemistry of Thermal-Sprayed Stainless-Steel Coatings. Coatings, 2019, 9, 835.	1.2	2
41	Efficient Measurement of the Influence of Chemical Composition on Corrosion: Analysis of an Mg-Al Diffusion Couple Using Scanning Micropipette Contact Method. Journal of the Electrochemical Society, 2019, 166, C624-C630.	1.3	16
42	4. Redox-Responsive Self-Assembled Amphiphilic Materials: Review and Application to Biological Systems. , 2019, , 113-142.		0
43	Effect of Substrate Permeability on Scanning Ion Conductance Microscopy: Uncertainty in Tipâ€"Substrate Separation and Determination of Ionic Conductivity. Analytical Chemistry, 2019, 91, 15718-15725.	3.2	12
44	Flux: Software for Analysing SECM Data. Journal of the Electrochemical Society, 2019, 166, H861-H865.	1.3	2
45	Micropipette Contact Method to Investigate Highâ€Energy Cathode Materials by using an Ionic Liquid. ChemElectroChem, 2019, 6, 195-201.	1.7	25
46	Simultaneous Electrochemical and Emission Monitoring of Electrogenerated Chemiluminescence through Instrument Hyphenation. Analytical Chemistry, 2019, 91, 2312-2318.	3.2	5
47	Unfolding the Hidden Reactions in Galvanic Cells. Electrocatalysis, 2018, 9, 531-538.	1.5	2
48	The Best of Both Worlds: Combining Ultramicroelectrode and Flow Cell Technologies. Journal of the Electrochemical Society, 2018, 165, H10-H15.	1.3	5
49	The role of titanium in the initiation of localized corrosion of stainless steel 444. Npj Materials Degradation, 2018, 2, .	2.6	27
50	The Structural and Electrochemical Effects of N-Heterocyclic Carbene Monolayers on Magnesium. Journal of the Electrochemical Society, 2018, 165, G139-G145.	1.3	10
51	Prefaceâ€"JES Focus Issue on the Brain and Electrochemistry Honoring R. Mark Wightman and Christian Amatore. Journal of the Electrochemical Society, 2018, 165, Y13-Y13.	1.3	0
52	Combined Spectroelectrochemical and Simulated Insights into the Electrogenerated Chemiluminescence Coreactant Mechanism. Analytical Chemistry, 2018, 90, 7377-7382.	3.2	30
53	Enhancement of the Enzymatic Biosensor Response through Targeted Electrode Surface Roughness. Journal of the Electrochemical Society, 2018, 165, G3074-G3079.	1.3	16
54	Altered Spatial Resolution of Scanning Electrochemical Microscopy Induced by Multifunctional Dual-Barrel Microelectrodes. Analytical Chemistry, 2018, 90, 6796-6803.	3.2	8

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55	Microcontact Printing Patterning of an HOPG Surface by an Inverse Electron Demand Dielsâ€“Alder Reaction. Chemistry - A European Journal, 2018, 24, 8904-8909.	1.7	0
56	Cuvetteâ€Based Electrogenerated Chemiluminescence Detection System for the Assessment of Polymerizable Ruthenium Luminophores. ChemElectroChem, 2017, 4, 1736-1743.	1.7	12
57	The Application of Scanning Electrochemical Microscopy to Corrosion Research. Corrosion, 2017, 73, 759-780.	0.5	53
58	Localized Detection of <scp>d</scp>â€Serine by using an Enzymatic Amperometric Biosensor and Scanning Electrochemical Microscopy. ChemElectroChem, 2017, 4, 920-926.	1.7	20
59	Modular Flow-Through Platform for Spectroelectrochemical Analysis. Analytical Chemistry, 2017, 89, 5246-5253.	3.2	5
60	Determination of the Relationship between Expression and Functional Activity of Multidrug Resistance-Associated Protein 1 using Scanning Electrochemical Microscopy. Analytical Chemistry, 2017, 89, 8988-8994.	3.2	17
61	Development of a Model for Experimental Data Treatment of Diffusion and Activation Limited Polarization Curves for Magnesium and Steel Alloys. Journal of the Electrochemical Society, 2017, 164, E3576-E3582.	1.3	15
62	Nanoscale Measurements of Lithiumâ€Ionâ€Battery Materials using Scanning Probe Techniques. ChemElectroChem, 2017, 4, 6-19.	1.7	49
63	Ferrocene-Modified Phospholipid: An Innovative Precursor for Redox-Triggered Drug Delivery Vesicles Selective to Cancer Cells. Langmuir, 2016, 32, 4169-4178.	1.6	63
64	Scanning Electrochemical Microscopy: A Comprehensive Review of Experimental Parameters from 1989 to 2015. Chemical Reviews, 2016, 116, 13234-13278.	23.0	333
65	Measurement on isolated lithium iron phosphate particles reveals heterogeneity in material properties distribution. Journal of Power Sources, 2016, 325, 682-689.	4.0	37
66	Probing Passivating Porous Films by Scanning Electrochemical Microscopy. Journal of the Electrochemical Society, 2016, 163, H3066-H3071.	1.3	12
67	Localized Corrosion Behavior of AZ31B Magnesium Alloy with an Electrodeposited Poly(3,4-Ethylenedioxythiophene) Coating. Journal of the Electrochemical Society, 2015, 162, C536-C544.	1.3	25
68	Reducing the corrosion rate of magnesium alloys using ethylene glycol for advanced electrochemical imaging. Corrosion Science, 2015, 93, 70-79.	3.0	16
69	Fabrication of Carbon, Gold, Platinum, Silver, and Mercury Ultramicroelectrodes with Controlled Geometry. Analytical Chemistry, 2015, 87, 2565-2569.	3.2	70
70	Modulation of Charge Transport Across Double-Stranded DNA by the Site-Specific Incorporation of Copper Bis-Phenanthroline Complexes. Langmuir, 2015, 31, 1850-1854.	1.6	7
71	Determination of the local corrosion rate of magnesium alloys using a shear force mounted scanning microcapillary method. Faraday Discussions, 2015, 180, 331-345.	1.6	11
72	High-Speed Scanning Electrochemical Microscopy Method for Substrate Kinetic Determination: Application to Live Cell Imaging in Human Cancer. Analytical Chemistry, 2015, 87, 8102-8106.	3.2	30

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73	Solid/fluid interface: general discussion. Faraday Discussions, 2015, 180, 81-96.	1.6	1
74	Localised corrosion: general discussion. Faraday Discussions, 2015, 180, 381-414.	1.6	29
75	Corrosion scales and passive films: general discussion. Faraday Discussions, 2015, 180, 205-232.	1.6	7
76	High-Speed Scanning Electrochemical Microscopy Method for Substrate Kinetic Determination: Method and Theory. Analytical Chemistry, 2015, 87, 8096-8101.	3.2	26
77	Cyclometalated Iridium(III) Imidazole Phenanthroline Complexes as Luminescent and Electrochemiluminescent G-Quadruplex DNA Binders. Inorganic Chemistry, 2015, 54, 6958-6967.	1.9	42
78	Surface Analytical Methods Applied to Magnesium Corrosion. Analytical Chemistry, 2015, 87, 7499-7509.	3.2	32
79	Corrosion Product Formation Monitored Using the Feedback Mode of Scanning Electrochemical Microscopy with Carbon Microelectrodes. Journal of the Electrochemical Society, 2015, 162, C677-C683.	1.3	12
80	Anodic Stripping Voltammetry at Nanoelectrodes: Trapping of Mn 2+ by Crown Ethers. Electrochimica Acta, 2015, 162, 169-175.	2.6	13
81	In-situ Mg2+ release monitored during magnesium alloy corrosion. Journal of Electroanalytical Chemistry, 2015, 736, 61-68.	1.9	31
82	Local Hydrogen Fluxes Correlated to Microstructural Features of a Corroding Sand Cast AM50 Magnesium Alloy. Journal of the Electrochemical Society, 2014, 161, C557-C564.	1.3	29
83	Local flux of hydrogen from magnesium alloy corrosion investigated by scanning electrochemical microscopy. Journal of Electroanalytical Chemistry, 2014, 720-721, 121-127.	1.9	53
84	Formation, stability, and pH sensitivity of free-floating, giant unilamellar vesicles using palmitic acidâ€“cholesterol mixtures. Soft Matter, 2014, 10, 6451.	1.2	3
85	Disk-Shaped Amperometric Enzymatic Biosensor for in Vivo Detection of <scp>d</scp>-serine. Analytical Chemistry, 2014, 86, 3501-3507.	3.2	31
86	Development of Nano-Disc electrodes for Application as Shear Force Sensitive Electrochemical Probes. Electrochimica Acta, 2014, 136, 121-129.	2.6	32
87	Forced convection during scanning electrochemical microscopy imaging over living cells: Effect of topographies and kinetics on the microelectrode current. Electrochimica Acta, 2013, 110, 42-48.	2.6	20
88	Electrogenerated Chemiluminescence of Iridium-Containing ROMP Block Copolymer and Self-Assembled Micelles. Langmuir, 2013, 29, 12866-12873.	1.6	24
89	Assessment of multidrug resistance on cell coculture patterns using scanning electrochemical microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9249-9254.	3.3	76
90	Fabrication of Hg/Pt Hemispherical Nanoelectrodes for Localized Quantitive Detection of Manganese 2+ Produced at Battery Material. ECS Meeting Abstracts, 2013, , .	0.0	0

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91	Scanning Electrochemical Microscopy Applied to Cancer Related Studies. Biological and Medical Physics Series, 2013, , 331-362.	0.3	1
92	Forced Convection during Feedback Approach Curve Measurements in Scanning Electrochemical Microscopy: Maximal Displacement Velocity with a Microdisk. Analytical Chemistry, 2012, 84, 3531-3537.	3.2	19
93	Influence of Edge Effects on Local Corrosion Rate of Magnesium Alloy/Mild Steel Galvanic Couple. Analytical Chemistry, 2012, 84, 9899-9906.	3.2	50
94	Biological Scanning Electrochemical Microscopy and Its Application to Live Cell Studies. Analytical Chemistry, 2011, 83, 1485-1492.	3.2	75
95	Fabrication and Characterization of Laser Pulled Platinum Microelectrodes with Controlled Geometry. Analytical Chemistry, 2011, 83, 2378-2382.	3.2	65
96	Carbon surface derivatization by electrochemical reduction of a diazonium salt in situ produced from the nitro precursor. Journal of Electroanalytical Chemistry, 2011, 661, 13-19.	1.9	26
97	Assessing multidrug resistance protein 1-mediated function in cancer cell multidrug resistance by scanning electrochemical microscopy and flow cytometry. Bioelectrochemistry, 2011, 82, 29-37.	2.4	43
98	Scanning Electrochemical Microscopy Approach Curves for Ring Microelectrodes in Pure Negative and Positive Feedback Mode. Journal of the Electrochemical Society, 2010, 157, F77.	1.3	9
99	Synthesis of Redox Active Ferrocene-Modified Phospholipids by Transphosphatidylation Reaction and Chronoamperometry Study of the Corresponding Redox Sensitive Liposome. Journal of the American Chemical Society, 2010, 132, 15120-15123.	6.6	35
100	Detection of Hydrogen Peroxide Produced during the Oxygen Reduction Reaction at Self-Assembled Thiolâ^'Porphyrin Monolayers on Gold using SECM and Nanoelectrodes. Langmuir, 2010, 26, 13000-13006.	1.6	39
101	Synthesis of Metal Complex Modified Phospholipids by Phospholipase D-Catalyzed Transphosphatidylation. ECS Transactions, 2009, 19, 1-10.	0.3	1
102	Scanning Electrochemical Microscopy Approach Curves Numerically Simulated for Ring Microelectrodes in Pure Negative and Positive Feedback Mode. ECS Transactions, 2009, 19, 11-24.	0.3	0
103	In Situ Formation of Diazonium Salts from Nitro Precursors for Scanning Electrochemical Microscopy Patterning of Surfaces. Angewandte Chemie - International Edition, 2009, 48, 4006-4008.	7.2	72
104	Patterning of Surfaces by Oxidation of Amineâ€Containing Compounds Using Scanning Electrochemical Microscopy. Angewandte Chemie - International Edition, 2009, 48, 7395-7397.	7.2	29
105	Oxygen Plasma Treatment of Polystyrene and Zeonor: Substrates for Adhesion of Patterned Cells. Langmuir, 2009, 25, 7169-7176.	1.6	56
106	Development of a Phase-Controlled Constant-Distance Scanning Electrochemical Microscope. Analytical Chemistry, 2009, 81, 3654-3659.	3.2	25
107	Laser-pulled ultramicroelectrodes. , 2007, , 199-211.		8
108	Platinum and gold inlaid disks â‰¥5 Î¼m diameter. , 2007, , 189-197.		10

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109	Hg microhemispherical electrodes. , 2007, , 235-243.		0
110	Scanning Electrochemical Microscopy. , 2007, , 471-540.		11
111	Scanning Electrochemical Microscopy of the Photosynthetic Reaction Center ofRhodobactersphaeroidesin Different Environmental Systems. Analytical Chemistry, 2006, 78, 5046-5051.	3.2	15
112	Scanning Electrochemical Microscopy. 55. Fabrication and Characterization of Micropipet Probes. Analytical Chemistry, 2005, 77, 5182-5188.	3.2	47
113	Scanning electrochemical microscopy of menadione-glutathione conjugate export from yeast cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7862-7867.	3.3	94
114	Menadione metabolism to thiodione in hepatoblastoma by scanning electrochemical microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17582-17587.	3.3	91
115	Scanning Electrochemical Microscopy. 48. Hg/Pt Hemispherical Ultramicroelectrodes:Â Fabrication and Characterization. Analytical Chemistry, 2003, 75, 3880-3889.	3.2	93
116	Detection of Glutathione Conjugate Export from Yeast Cells. Electrochemical Society Interface, 2003, 12, 61-62.	0.3	0
117	Detection of Tl(I) Transport through a Gramicidinâ˜Dioleoylphosphatidylcholine Monolayer Using the Substrate Generationâ˜Tip Collection Mode of Scanning Electrochemical Microscopy. Langmuir, 2002, 18, 9453-9461.	1.6	39
118	Square Wave Anodic Stripping Voltammetry for Localized Detection of Mn2+ in Li-Ion Battery Environments. Journal of the Electrochemical Society, 0, , .	1.3	0