Alexander Kuhn

List of Publications by Year
in descending order

204	7,316	53794	74163
papers	citations	45 h-index	75 g-index

222	222	222	6244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electric field-induced chemical locomotion of conducting objects. Nature Communications, 2011, 2, 535.	12.8	384
2	Bipolar Electrochemistry: From Materials Science to Motion and Beyond. Accounts of Chemical Research, 2013, 46, 2513-2523.	15.6	325
3	Adsorption of Monolayers of P2Mo18O626- and Deposition of Multiple Layers of Os(bpy)32+â^'P2Mo18O626- on Electrode Surfaces. Langmuir, 1996, 12, 5481-5488.	3.5	216
4	True Bulk Synthesis of Janus Objects by Bipolar Electrochemistry. Advanced Materials, 2012, 24, 5111-5116.	21.0	170
5	Propulsion of Microobjects by Dynamic Bipolar Self-Regeneration. Journal of the American Chemical Society, 2010, 132, 15918-15919.	13.7	166
6	Tailored Mesostructuring and Biofunctionalization of Gold for Increased Electroactivity. Angewandte Chemie - International Edition, 2006, 45, 1317-1321.	13.8	165
7	Ordered porous thin films in electrochemical analysis. TrAC - Trends in Analytical Chemistry, 2008, 27, 593-603.	11.4	162
8	Role of convection in thin-layer electrodeposition. Physical Review E, 1995, 51, 3444-3458.	2.1	146
9	Macroporous Ultramicroelectrodes for Improved Electroanalytical Measurements. Analytical Chemistry, 2007, 79, 533-539.	6.5	143
10	Multiple relaxation pathways in photoexcited dimethylaminonitro- and dimethylaminocyano-stilbenes. Chemical Physics Letters, 1993, 208, 48-58.	2.6	133
11	Enantioselective recognition at mesoporous chiral metal surfaces. Nature Communications, 2014, 5, 3325.	12.8	126
12	Enhanced Photovoltaic Response in Hydrogen-Bonded All-Organic Devices. Organic Letters, 2005, 7, 3409-3412.	4.6	124
13	Bulk synthesis of Janus objects and asymmetric patchy particles. Journal of Materials Chemistry, 2012, 22, 15457.	6.7	121
14	Dissymmetric Carbon Nanotubes by Bipolar Electrochemistry. Nano Letters, 2008, 8, 500-504.	9.1	116
15	Topâ^'Down Approach for the Preparation of Colloidal Carbon Nanoparticles. Chemistry of Materials, 2004, 16, 2984-2986.	6.7	114
16	Polyoxometallates as inorganic templates for monolayers and multilayers of ultrathin polyaniline. Electrochemistry Communications, 2002, 4, 510-515.	4.7	103
17	Fabrication of network films of conducting polymer-linked polyoxometallate-stabilized carbon nanostructures. Electrochimica Acta, 2006, 51, 2373-2379.	5.2	101
18	Shaping and exploring the micro- and nanoworld using bipolar electrochemistry. Analytical and Bioanalytical Chemistry, 2011, 400, 1691-1704.	3.7	94

#	Article	IF	Citations
19	Lightâ€Emitting Electrochemical â€œSwimmersâ€• Angewandte Chemie - International Edition, 2012, 51, 11284-11288.	13.8	91
20	Asymmetric synthesis using chiral-encoded metal. Nature Communications, 2016, 7, 12678.	12.8	90
21	3D-Ensembles of Gold Nanowires: Preparation, Characterization and Electroanalytical Peculiarities. Electroanalysis, 2007, 19, 227-236.	2.9	89
22	Indirect Bipolar Electrodeposition. Journal of the American Chemical Society, 2012, 134, 20033-20036.	13.7	86
23	Synthesis and electronic structure of permethylindenyl complexes of iron and cobalt. Organometallics, 1992, 11, 48-55.	2.3	77
24	Macroporous antimony film electrodes for stripping analysis of trace heavy metals. Electrochemistry Communications, 2010, 12, 114-117.	4.7	76
25	Hierarchical self-assembly of all-organic photovoltaic devices. Tetrahedron, 2006, 62, 2050-2059.	1.9	74
26	Generation of electrochemiluminescence at bipolar electrodes: concepts and applications. Analytical and Bioanalytical Chemistry, 2016, 408, 7003-7011.	3.7	73
27	3D electrogenerated chemiluminescence: from surface-confined reactions to bulk emission. Chemical Science, 2015, 6, 4433-4437.	7.4	72
28	Electrochemiluminescent swimmers for dynamic enzymatic sensing. Chemical Communications, 2014, 50, 10202-10205.	4.1	71
29	Versatile Procedure for Synthesis of Janus-Type Carbon Tubes. Chemistry of Materials, 2011, 23, 2595-2599.	6.7	67
30	Improved enzyme immobilization for enhanced bioelectrocatalytic activity of porous electrodes. Electrochemistry Communications, 2007, 9, 2121-2127.	4.7	60
31	Siteâ€Selective Synthesis of Janusâ€type Metalâ€Organic Framework Composites. Angewandte Chemie - International Edition, 2014, 53, 4001-4005.	13.8	60
32	Bipolar electrochemistry for cargo-lifting in fluid channels. Lab on A Chip, 2012, 12, 1967.	6.0	55
33	Imaging Redox Activity at Bipolar Electrodes by Indirect Fluorescence Modulation. Analytical Chemistry, 2014, 86, 3708-3711.	6.5	55
34	Combined macro-/mesoporous microelectrode arrays for low-noise extracellular recording of neural networks. Journal of Neurophysiology, 2012, 108, 1793-1803.	1.8	54
35	Nanostructuration strategies to enhance microelectrode array (MEA) performance for neuronal recording and stimulation. Journal of Physiology (Paris), 2012, 106, 137-145.	2.1	54
36	Electric fields for generating unconventional motion of small objects. Current Opinion in Colloid and Interface Science, 2016, 21, 57-64.	7.4	53

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37	Engineering of Complex Macroporous Materials Through Controlled Electrodeposition in Colloidal Superstructures. Advanced Functional Materials, 2012, 22, 538-545.	14.9	50
38	Wireless powering of e -swimmers. Scientific Reports, 2014, 4, 6705.	3.3	50
39	Generation of metal composition gradients by means of bipolar electrodeposition. Electrochimica Acta, 2015, 179, 276-281.	5.2	50
40	Electrocatalysis with monolayer modified highly organized macroporous electrodes. Electrochemistry Communications, 2003, 5, 747-751.	4.7	49
41	Dual Enzymatic Detection by Bulk Electrogenerated Chemiluminescence. Analytical Chemistry, 2016, 88, 6585-6592.	6.5	49
42	Electrochemical charging and electrocatalysis at hybrid films of polymer-interconnected polyoxometallate-stabilized carbon submicroparticles. Journal of Solid State Electrochemistry, 2006, 10, 168-175.	2.5	47
43	Hierarchical templating in deposition of semi-covalently imprinted inverse opal polythiophene film for femtomolar determination of human serum albumin. Biosensors and Bioelectronics, 2017, 94, 155-161.	10.1	47
44	Bipolar Conducting Polymer Crawlers Based on Triple Symmetry Breaking. Advanced Functional Materials, 2018, 28, 1705825.	14.9	47
45	Nanoengineered chiral Pt-Ir alloys for high-performance enantioselective electrosynthesis. Nature Communications, 2021, 12, 1314.	12.8	47
46	Bioelectrocatalysis with modified highly ordered macroporous electrodes. Journal of Electroanalytical Chemistry, 2005, 579, 181-187.	3.8	46
47	Fabrication of a Macroporous Microwell Array for Surfaceâ€Enhanced Raman Scattering. Advanced Functional Materials, 2009, 19, 3129-3135.	14.9	46
48	Design of Catalytically Active Cylindrical and Macroporous Gold Microelectrodes. Advanced Functional Materials, 2011, 21, 691-698.	14.9	46
49	Enhanced hydrogen peroxide sensing based on Prussian Blue modified macroporous microelectrodes. Electrochemistry Communications, 2013, 29, 78-80.	4.7	45
50	Spatially-resolved multicolor bipolar electrochemiluminescence. Electrochemistry Communications, 2017, 77, 10-13.	4.7	45
51	Synthesis, Characterization, and Electrochemical Applications of Chiral Imprinted Mesoporous Ni Surfaces. Journal of the American Chemical Society, 2019, 141, 18870-18876.	13.7	45
52	Pulsed electroconversion for highly selective enantiomer synthesis. Nature Communications, 2017, 8, 2087.	12.8	44
53	Controlled Orientation of Asymmetric Copper Deposits on Carbon Microobjects by Bipolar Electrochemistry. Journal of Physical Chemistry C, 2012, 116, 22021-22027.	3.1	42
54	Wireless Electrochemical Actuation of Conducting Polymers. Angewandte Chemie - International Edition, 2017, 56, 14183-14186.	13.8	42

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55	Lighting Up Redox Propulsion with Luminol Electrogenerated Chemiluminescence. ChemElectroChem, 2014, 1, 95-98.	3.4	41
56	Preparation and characterization of polyoxometalate-modified carbon nanosheets. Carbon, 2006, 44, 1942-1948.	10.3	40
57	Early diagnosis of fungal infections using piezomicrogravimetric and electric chemosensors based on polymers molecularly imprinted with d-arabitol. Biosensors and Bioelectronics, 2016, 79, 627-635.	10.1	40
58	A Simple Student Experiment for Teaching Surface Electrochemistry: Adsorption of Polyoxometalate on Graphite Electrodes. Journal of Chemical Education, 2002, 79, 349.	2.3	39
59	Linking glucose oxidation to luminol-based electrochemiluminescence using bipolar electrochemistry. Electrochemistry Communications, 2015, 50, 77-80.	4.7	39
60	Absolute Asymmetric Reduction Based on the Relative Orientation of Achiral Reactants. Angewandte Chemie - International Edition, 2009, 48, 6857-6860.	13.8	37
61	Anisotropic Metal Deposition on TiO₂ Particles by Electricâ€Fieldâ€Induced Charge Separation. Angewandte Chemie - International Edition, 2017, 56, 11431-11435.	13.8	37
62	Electrogeneration of ultra-thin silica films for the functionalization of macroporous electrodes. Electrochemistry Communications, 2011, 13, 138-142.	4.7	36
63	Electrokinetic Assembly of One-Dimensional Nanoparticle Chains with Cucurbit[7]uril Controlled Subnanometer Junctions. Nano Letters, 2013, 13, 6016-6022.	9.1	36
64	Chiral Macroporous MOF Surfaces for Electroassisted Enantioselective Adsorption and Separation. ACS Applied Materials & Interfaces, 2020, 12, 36548-36557.	8.0	36
65	Optimized carbon nanotube fiber microelectrodes as potential analytical tools. Analytical and Bioanalytical Chemistry, 2007, 389, 499-505.	3.7	35
66	Enantioselective Recognition of DOPA by Mesoporous Platinum Imprinted with Mandelic Acid. Electroanalysis, 2015, 27, 2209-2213.	2.9	35
67	Potentialâ€Induced Fineâ€Tuning of the Enantioaffinity of Chiral Metal Phases. Angewandte Chemie - International Edition, 2019, 58, 3471-3475.	13.8	35
68	Electrochemically assisted deposition of solâ€“gel bio-composite with co-immobilized dehydrogenase and diaphorase. Electrochimica Acta, 2011, 56, 9032-9040.	5.2	34
69	Bipolar (Bio)electroanalysis. Annual Review of Analytical Chemistry, 2021, 14, 65-86.	5.4	34
70	Facile Fabrication of Surface-Imprinted Macroporous Films for Chemosensing of Human Chorionic Gonadotropin Hormone. ACS Applied Materials & Interfaces, 2019, 11, 9265-9276.	8.0	33
71	Adsorption and catalytic activity of trinitro-fluorenone derivatives towards NADH oxidation on different electrode materials. Electrochemistry Communications, 2001, 3, 585-589.	4.7	31
72	Discrimination of dopamine and ascorbic acid using carbon nanotube fiber microelectrodes. Physical Chemistry Chemical Physics, 2010, 12, 9993.	2.8	31

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73	Wireless Electrografting of Molecular Layers for Janus Particle Synthesis. Chemistry - A European Journal, 2013, 19, 1577-1580.	3.3	31
74	Absolute Chiral Recognition with Hybrid Wireless Electrochemical Actuators. Analytical Chemistry, 2020, 92, 10042-10047.	6.5	31
75	Diffusion-limited kinetics in thin-gap electroless deposition. Journal of Electroanalytical Chemistry, 1995, 397, 93-104.	3.8	30
76	A Compelling Case for Bipolar Electrochemistry. ChemElectroChem, 2016, 3, 351-352.	3.4	30
77	Wireless Electromechanical Readout of Chemical Information. Journal of the American Chemical Society, 2018, 140, 15501-15506.	13.7	30
78	Wireless Synthesis and Activation of Electrochemiluminescent Thermoresponsive Janus Objects Using Bipolar Electrochemistry. Langmuir, 2016, 32, 12995-13002.	3.5	29
79	Chiral platinumâ€“polypyrrole hybrid films as efficient enantioselective actuators. Chemical Communications, 2019, 55, 10956-10959.	4.1	29
80	Guiding pancreatic beta cells to target electrodes in a whole-cell biosensor for diabetes. Lab on A Chip, 2015, 15, 3880-3890.	6.0	28
81	Nanostructured Antimonyâ€Doped Tin Oxide Layers with Tunable Pore Architectures as Versatile Transparent Current Collectors for Biophotovoltaics. Advanced Functional Materials, 2016, 26, 6682-6692.	14.9	28
82	Advances in bipolar electrochemiluminescence for the detection of biorelevant molecular targets. Current Opinion in Electrochemistry, 2019, 16, 28-34.	4.8	28
83	Electropolymerization of Polypyrrole by Bipolar Electrochemistry in an Ionic Liquid. Langmuir, 2014, 30, 2973-2976.	3.5	27
84	Enhanced Bipolar Electrochemistry at Solid-State Micropores: Demonstration by Wireless Electrochemiluminescence Imaging. Analytical Chemistry, 2019, 91, 8900-8907.	6.5	26
85	Porous Bismuth Film Electrodes for Signal Increase in Anodic Stripping Voltammetry. Electroanalysis, 2010, 22, 1524-1530.	2.9	25
86	The effect of modification of carbon electrodes with hybrid inorganic/organic monolayers on morphology and electrocatalytic activity of platinum deposits. Electrochimica Acta, 2001, 46, 4197-4204.	5.2	24
87	Tracking Magnetic Rotating Objects by Bipolar Electrochemiluminescence. Journal of Physical Chemistry Letters, 2019, 10, 5318-5324.	4.6	24
88	Direct dynamic read-out of molecular chirality with autonomous enzyme-driven swimmers. Nature Chemistry, 2021, 13, 1241-1247.	13.6	24
89	Comb and Dendrigraft Polystyrenes with Ferrocenyl Units at the Periphery:Â Synthesis and Electrochemical Properties. Macromolecules, 2002, 35, 8994-9000.	4.8	23
90	Design of a wireless electrochemical valve. Nanoscale, 2013, 5, 1305-1309.	5.6	23

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91	One-step preparation of bifunctionalized surfaces by bipolar electrografting. RSC Advances, 2016, 6, 3882-3887.	3.6	23
92	Hexagonally Packed Macroporous Molecularly Imprinted Polymers for Chemosensing of Follicle-Stimulating Hormone Protein. ACS Sensors, 2020, 5, 118-126.	7.8	23
93	Dualâ€Color Electrogenerated Chemiluminescence from Dispersions of Conductive Microbeads Addressed by Bipolar Electrochemistry. ChemElectroChem, 2016, 3, 404-409.	3.4	22
94	Wireless Coupling of Conducting Polymer Actuators with Light Emission. ChemPhysChem, 2019, 20, 941-945.	2.1	22
95	Asymmetrical modification of carbon microfibers by bipolar electrochemistry in acetonitrile. Electrochimica Acta, 2014, 116, 421-428.	5.2	21
96	Bipolar Electrochemistry with Organic Single Crystals for Wireless Synthesis of Metalâ€“Organic Janus Objects and Asymmetric Photovoltage Generation. Journal of Physical Chemistry C, 2017, 121, 12921-12927.	3.1	21
97	Capillaryâ€assisted bipolar electrochemistry: A focused mini review. Electrophoresis, 2017, 38, 2687-2694.	2.4	21
98	Low-Molecular-Weight Hydrogels as New Supramolecular Materials for Bioelectrochemical Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 1093-1098.	8.0	21
99	Asymmetric Modification of TiO₂ Nanofibers with Gold by Electricâ€Fieldâ€Assisted Photochemistry. ChemElectroChem, 2014, 1, 2048-2051.	3.4	20
100	Selective Functionalization of Graphene Peripheries by using Bipolar Electrochemistry. ChemElectroChem, 2016, 3, 372-377.	3.4	20
101	Indirect bipolar electrodeposition of polymers for the controlled design of zinc microswimmers. Applied Materials Today, 2017, 9, 259-265.	4.3	20
102	Wireless Light-Emitting Electrochemical Rotors. Journal of Physical Chemistry Letters, 2017, 8, 4930-4934.	4.6	19
103	Asymmetry controlled dynamic behavior of autonomous chemiluminescent Janus microswimmers. Chemical Science, 2020, 11, 7438-7443.	7.4	19
104	Direct Visualization of Symmetry Breaking During Janus Nanoparticle Formation. Small, 2012, 8, 2698-2703.	10.0	18
105	Singleâ€Step Screening of the Potential Dependence of Metal Layer Morphologies along Bipolar Electrodes. ChemElectroChem, 2016, 3, 387-391.	3.4	18
106	Encoding Chiral Molecular Information in Metal Structures. Chemistry - A European Journal, 2020, 26, 2993-3003.	3.3	18
107	Bottomâ€up Generation of Miniaturized Coaxial Double Electrodes with Tunable Porosity. Advanced Materials Interfaces, 2015, 2, 1500192.	3.7	17
108	Elaboration of metal organic framework hybrid materials with hierarchical porosity by electrochemical depositionâ€“dissolution. CrystEngComm, 2016, 18, 5095-5100.	2.6	17

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109	Chemoâ€•and Magnetotaxis of Selfâ€Propelled Lightâ€Emitting Chemoâ€•electronic Swimmers. Angewandte Chemie - International Edition, 2020, 59, 7508-7513.	13.8	17
110	Bipolar Electrochemical Measurement of Enantiomeric Excess with Inherently Chiral Polymer Actuators. ACS Measurement Science Au, 2021, 1, 110-116.	4.4	17
111	Lorentz Force-Driven Autonomous Janus Swimmers. Journal of the American Chemical Society, 2021, 143, 12708-12714.	13.7	17
112	Carbon Nanotube Fiber Microelectrodes: Design, Characterization, and Optimization. Journal of Nanoscience and Nanotechnology, 2007, 7, 3373-3377.	0.9	16
113	Interest of the Solâ€Gel Approach for Multiscale Tailoring of Porous Bioelectrode Surfaces. Electroanalysis, 2013, 25, 621-629.	2.9	16
114	Bipolar Electrografting on the Inner Wall of Carbon Nanotubes. ChemElectroChem, 2016, 3, 410-414.	3.4	16
115	Rational Design of Enzymeâ€Modified Electrodes for Optimized Bioelectrocatalytic Activity. ChemElectroChem, 2019, 6, 4980-4984.	3.4	16
116	Chemiluminescence from Asymmetric Inorganic Surface Layers Generated by Bipolar Electrochemistry. ChemPhysChem, 2013, 14, 2089-2093.	2.1	15
117	Wireless Electrosampling of Heavy Metals for Stripping Analysis with Bismuth-Based Janus Particles. Analytical Chemistry, 2014, 86, 10515-10519.	6.5	15
118	On-chip enzymatic microbiofuel cell-powered integrated circuits. Lab on A Chip, 2017, 17, 1761-1768.	6.0	15
119	Hybrid lightâ€•emitting devices for the straightforward readout of chiral information. Chirality, 2021, 33, 875-882.	2.6	15
120	Multiscale-Tailored Bioelectrode Surfaces for Optimized Catalytic Conversion Efficiency. Langmuir, 2011, 27, 12737-12744.	3.5	14
121	Large Scale Chirality Transduction with Functional Molecular Materials. Chemistry of Materials, 2020, 32, 10663-10669.	6.7	14
122	Bulk Electrocatalytic NADH Cofactor Regeneration with Bipolar Electrochemistry. Angewandte Chemie - International Edition, 2022, 61, e202111804.	13.8	14
123	Effects of chirality during electrochemical oxidation of 2,3 butanediol stereoisomers. Journal of Electroanalytical Chemistry, 1996, 410, 243-246.	3.8	13
124	Effect of Ca2+ on the Amperometric Determination of Dehydrogenase Substrates with Nitro-Fluorenone Modified Electrodes. Electroanalysis, 2001, 13, 770-774.	2.9	13
125	Controlled purification, solubilisation and cutting of carbon nanotubes using phosphomolybdic acid. Journal of Materials Chemistry, 2008, 18, 4056.	6.7	13
126	Modulation of Wetting Gradients by Tuning the Interplay between Surface Structuration and Anisotropic Molecular Layers with Bipolar Electrochemistry. ChemPhysChem, 2017, 18, 2637-2642.	2.1	13

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127	Uphill production of dihydrogen by enzymatic oxidation of glucose without an external energy source. Nature Communications, 2018, 9, 3229.	12.8	13
128	Highly defective carbon nanotubes for sensitive, low-cost and environmentally friendly electrochemical H2O2 sensors: Insight into carbon supports. Carbon, 2020, 170, 154-164.	10.3	13
129	Oscillatory Lightâ€Emitting Biopolymer Based Janus Microswimmers. Advanced Materials Interfaces, 2020, 7, 1902094.	3.7	13
130	Recent Advances in Bipolar Electrochemistry with Conducting Polymers. ChemElectroChem, 2022, 9, .	3.4	13
131	Spatial Control of Polyaniline Electrodeposition by Patterned Polyoxometalate Monolayers. Journal of the Electrochemical Society, 2003, 150, C351.	2.9	12
132	Multicomponent macroporous materials with a controlled architecture. Journal of Materials Chemistry, 2009, 19, 409-414.	6.7	12
133	Surface enhancement of a molecularly imprinted polymer film using sacrificial silica beads for increasing<scp>l</scp>-arabitol chemosensor sensitivity and detectability. Journal of Materials Chemistry B, 2017, 5, 6292-6299.	5.8	12
134	Wireless Addressing of Freestanding MoSe₂ Macro- and Microparticles by Bipolar Electrochemistry. Journal of Physical Chemistry C, 2019, 123, 5647-5652.	3.1	12
135	Electrochemistryâ€Based Lightâ€Emitting Mobile Systems. ChemElectroChem, 2020, 7, 4853-4862.	3.4	12
136	Design of Potassiumâ€Selective Mixed Ion/Electron Conducting Polymers. Macromolecular Rapid Communications, 2020, 41, e2000134.	3.9	12
137	Remote Actuation of a Lightâ€Emitting Device Based on Magnetic Stirring and Wireless Electrochemistry. ChemPhysChem, 2020, 21, 600-604.	2.1	12
138	Designing tubular conducting polymer actuators for wireless electropumping. Chemical Science, 2021, 12, 2071-2077.	7.4	12
139	In Situ Spectroelectrochemical-Conductance Measurements as an Efficient Tool for the Evaluation of Charge Trapping in Conducting Polymers. Journal of Physical Chemistry Letters, 2021, 12, 10422-10428.	4.6	12
140	Wireless light-emitting device for the determination of chirality in real samples. Electrochimica Acta, 2022, 421, 140494.	5.2	12
141	Ca2+ enhanced catalytic NADH oxidation: a coupled 31P-NMR and electrochemistry study. Physical Chemistry Chemical Physics, 2003, 5, 2082.	2.8	11
142	The effect of calcium ions on the electrocatalytic oxidation of NADH by poly(aniline)-poly(vinylsulfonate) and poly(aniline)-poly(styrenesulfonate) modified electrodes. Physical Chemistry Chemical Physics, 2003, 5, 588-593.	2.8	11
143	Site Selective Generation of Solâ€“Gel Deposits in Layered Bimetallic Macroporous Electrode Architectures. Langmuir, 2012, 28, 2323-2326.	3.5	11
144	Double remote electrochemical addressing and optical readout of electrochemiluminescence at the tip of an optical fiber. Analyst, The, 2016, 141, 4299-4304.	3.5	11

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145	Miniaturized Electrochemical Device from Assembled Cylindrical Macroporous Gold Electrodes. ChemElectroChem, 2016, 3, 2031-2035.	3.4	11
146	Bifunctional Pt/Au Janus electrocatalysts for simultaneous oxidation/reduction of furfural with bipolar electrochemistry. Chemical Communications, 2022, 58, 4312-4315.	4.1	11
147	Scanning Tunneling Microscopy of Electrode Surfaces Using Carbon Composite Tips. Electroanalysis, 2007, 19, 121-128.	2.9	10
148	Macroporous microelectrode arrays for measurements with reduced noise. Journal of Electroanalytical Chemistry, 2011, 656, 91-95.	3.8	10
149	Capillary electrophoresis as a production tool for asymmetric microhybrids. Electrophoresis, 2013, 34, 1985-1990.	2.4	10
150	Optimal Thickness of a Porous Microâ€Electrode Operating a Single Redox Reaction. ChemElectroChem, 2019, 6, 173-180.	3.4	10
151	Sodiumâ€Ion Selectivity Study of a Crownâ€Etherâ€Functionalized PEDOT Analog. ChemElectroChem, 2020, 7, 2826-2830.	3.4	10
152	Asymmetric Modification of Carbon Nanotube Arrays with Thermoresponsive Hydrogel for Controlled Delivery. ACS Applied Materials & Interfaces, 2020, 12, 23378-23387.	8.0	10
153	Highly Ordered Macroporous Poly-3,4-ortho-xylendioxythiophene Electrodes as a Sensitive Analytical Tool for Heavy Metal Quantification. Analytical Chemistry, 2018, 90, 11770-11774.	6.5	9
154	Enzymatic Glucose-Oxygen Biofuel Cells for Highly Efficient Interfacial Corrosion Protection. ACS Applied Energy Materials, 2020, 3, 4441-4448.	5.1	9
155	Heterogeneous Enantioselective Catalysis with Chiral Encoded Mesoporous Ptâ^'Ir Films Supported on Ni Foam. Chemistry - an Asian Journal, 2021, 16, 3345-3353.	3.3	9
156	Recent progress in enzyme-driven micro/nanoswimmers: From fundamentals to potential applications. Current Opinion in Electrochemistry, 2022, 32, 100887.	4.8	9
157	Wireless Anti-Stokes Photoinduced Electrochemiluminescence at Closed Semiconducting Bipolar Electrodes. Journal of Physical Chemistry Letters, 2022, 13, 5538-5544.	4.6	9
158	Wireless Dual Stimuli Actuation of Dye Sensitized Conducting Polymer Hybrids. Advanced Functional Materials, 2021, 31, 2101171.	14.9	8
159	Fine-tuning the functionality of reduced graphene oxide via bipolar electrochemistry in freestanding 2D reaction layers. Carbon, 2022, 191, 439-447.	10.3	8
160	Bipolar electrochemistry in the nanosciences. SPR Electrochemistry, 0, , 71-103.	0.7	7
161	Hierarchical Macroâ€mesoporous Pt Deposits on Gold Microwires for Efficient Methanol Oxidation. Electroanalysis, 2013, 25, 888-894.	2.9	7
162	Electrically Controlled Nano and Micro Actuation in Memristive Switching Devices with Onâ€Chip Gas Encapsulation. Small, 2018, 14, e1801599.	10.0	7

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163	Hierarchical Multiporous Nickel for Oxygen Evolution Reaction in Alkaline Media. ChemCatChem, 2019, 11, 5951-5960.	3.7	7
164	Wireless In Vivo Biofuel Cell Monitoring. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 25-34.	3.4	7
165	Wireless Enhanced Electrochemiluminescence at a Bipolar Microelectrode in a Solid-State Micropore. Journal of the Electrochemical Society, 2020, 167, 137509.	2.9	7
166	Electrochemical Removal of Metal Cations from Wastewater Monitored by Differential Pulse Polarography. Journal of Chemical Education, 2004, 81, 255.	2.3	6
167	Introducing a well-ordered volume porosity in 3-dimensional gold microcantilevers. Applied Physics Letters, 2013, 102, 053501.	3.3	6
168	Applications of Electrogenerated Chemiluminescence in Analytical Chemistry. , 2017, , 257-291.		6
169	Highly Ordered Macroporous Electrodes. , 2017, , 143-206.		6
170	Recent Advances in Bipolar Electrochemistry. , 2017, , 27-118.		6
171	Self-assembled monolayer protection of chiral-imprinted mesoporous platinum electrodes for highly enantioselective synthesis. Chemical Science, 2022, 13, 2339-2346.	7.4	6
172	Macroporous Ruthenium Oxide Electrodes for Electrochemical Applications. ECS Transactions, 2011, 33, 19-25.	0.5	5
173	Wireless Electrochemical Actuation of Conducting Polymers. Angewandte Chemie, 2017, 129, 14371-14374.	2.0	5
174	Potential Induced Fineâ€tuning the Enantioaffinity of Chiral Metal Phases. Angewandte Chemie, 2018, 131, 3509.	2.0	5
175	Autonomous Chemotactic Lightâ€Emitting Swimmers with Trajectories of Increasing Complexity. Advanced Intelligent Systems, 2021, 3, 2000217.	6.1	5
176	Localized Electrodeposition by Patterned Redox-active Monolayers. ChemPhysChem, 2001, 2, 688-691.	2.1	4
177	Anisotropic Metal Deposition on TiO₂ Particles by Electricâ€Fieldâ€Induced Charge Separation. Angewandte Chemie, 2017, 129, 11589-11593.	2.0	4
178	Determination of Ionic Mobilities by Thin-Layer Electrodeposition. Journal of Chemical Education, 1994, 71, A273.	2.3	3
179	Light and electric field induced unusual large-scale charge separation in hybrid semiconductor objects. Physical Chemistry Chemical Physics, 2020, 22, 22180-22184.	2.8	3
180	Cooperative Chemotaxis of Magnesium Microswimmers for Corrosion Spotting. ChemPhysChem, 2021, 22, 1321-1325.	2.1	3

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