Reginald M Penner

List of Publications by Year
in descending order

185 papers	16,281 citations	13087 68 h-index	16164 124 g-index
195 all docs	195 docs citations	195 times ranked	18539 citing authors

#	Article	IF	Citations
1	Hydrogen Sensors and Switches from Electrodeposited Palladium Mesowire Arrays. Science, 2001, 293, 2227-2231.	6.0	1,310
2	Energy Storage in Nanomaterials â€“ Capacitive, Pseudocapacitive, or Battery-like?. ACS Nano, 2018, 12, 2081-2083.	7.3	1,215
3	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
4	Molybdenum Nanowires by Electrodeposition. Science, 2000, 290, 2120-2123.	6.0	605
5	Best Practices for Reporting Electrocatalytic Performance of Nanomaterials. ACS Nano, 2018, 12, 9635-9638.	7.3	537
6	Electrode Degradation in Lithium-Ion Batteries. ACS Nano, 2020, 14, 1243-1295.	7.3	484
7	Mesoscopic Metal Particles and Wires by Electrodeposition. Journal of Physical Chemistry B, 2002, 106, 3339-3353.	1.2	374
8	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	1.5	330
9	Preparation and electrochemical characterization of ultramicroelectrode ensembles. Analytical Chemistry, 1987, 59, 2625-2630.	3.2	307
10	Lithographically patterned nanowire electrodeposition. Nature Materials, 2006, 5, 914-919.	13.3	289
11	Electrochemically Grown Wires for Individually Addressable Sensor Arrays. Nano Letters, 2004, 4, 419-422.	4.5	272
12	Palladium Mesowire Arrays for Fast Hydrogen Sensors and Hydrogen-Actuated Switches. Analytical Chemistry, 2002, 74, 1546-1553.	3.2	234
13	Fast, Sensitive Hydrogen Gas Detection Using Single Palladium Nanowires That Resist Fracture. Nano Letters, 2009, 9, 2177-2182.	4.5	222
14	Electrochemical Deposition of Silver Nanocrystallites on the Atomically Smooth Graphite Basal Plane. The Journal of Physical Chemistry, 1996, 100, 837-844.	2.9	220
15	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. Physical Chemistry Chemical Physics, 2004, 6, 604.	1.3	214
16	Smaller is Faster and More Sensitive: The Effect of Wire Size on the Detection of Hydrogen by Single Palladium Nanowires. ACS Nano, 2010, 4, 5233-5244.	7.3	213
17	Accelerating Palladium Nanowire H₂ Sensors Using Engineered Nanofiltration. ACS Nano, 2017, 11, 9276-9285.	7.3	190
18	Noble and Coinage Metal Nanowires by Electrochemical Step Edge Decoration. Journal of Physical Chemistry B, 2002, 106, 11407-11411.	1.2	184

#	Article	IF	Citations
19	20 Î¼s Photocurrent Response from Lithographically Patterned Nanocrystalline Cadmium Selenide Nanowires. Nano Letters, 2010, 10, 1481-1485.	4.5	174
20	Polycrystalline Molybdenum Disulfide (2Hâ^'MoS2) Nano- and Microribbons by Electrochemical/Chemical Synthesis. Nano Letters, 2004, 4, 277-281.	4.5	172
21	Mesoporous Manganese Oxide Nanowires for High-Capacity, High-Rate, Hybrid Electrical Energy Storage. ACS Nano, 2011, 5, 8275-8287.	7.3	166
22	Investigation of a Single Pd Nanowire for Use as a Hydrogen Sensor. Small, 2006, 2, 356-358.	5.2	164
23	Nanocrystalline Nickel Nanoparticles. Advanced Materials, 2000, 12, 878-883.	11.1	154
24	Enhanced Thermoelectric Metrics in Ultra-long Electrodeposited PEDOT Nanowires. Nano Letters, 2011, 11, 125-131.	4.5	150
25	Controlling the Morphology of Electronically Conductive Polymers. Journal of the Electrochemical Society, 1986, 133, 2206-2207.	1.3	148
26	Size-selective electrodeposition of meso-scale metal particles: a general method. Electrochimica Acta, 2001, 47, 671-677.	2.6	147
27	Photoconductive Cadmium Sulfide Hemicylindrical Shell Nanowire Ensembles. Nano Letters, 2005, 5, 1720-1725.	4.5	146
28	Amine Vapor Sensing with Silver Mesowires. Nano Letters, 2004, 4, 665-670.	4.5	143
29	Chemiresistive Hydrogen Sensors: Fundamentals, Recent Advances, and Challenges. ACS Nano, 2020, 14, 14284-14322.	7.3	143
30	Sensors from polymer modified electrodes. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 1051.	1.0	137
31	Shape- and Size-Selective Electrochemical Synthesis of Dispersed Silver(I) Oxide Colloids. Nano Letters, 2005, 5, 2319-2324.	4.5	137
32	Metal Nanowire Arrays by Electrodeposition. ChemPhysChem, 2003, 4, 131-138.	1.0	136
33	Lithographically Patterned Gold/Manganese Dioxide Core/Shell Nanowires for High Capacity, High Rate, and High Cyclability Hybrid Electrical Energy Storage. Chemistry of Materials, 2012, 24, 2382-2390.	3.2	135
34	Lithographically Patterned Nanowire Electrodeposition: A Method for Patterning Electrically Continuous Metal Nanowires on Dielectrics. ACS Nano, 2008, 2, 1939-1949.	7.3	133
35	Virus-PEDOT Nanowires for Biosensing. Nano Letters, 2010, 10, 4858-4862.	4.5	129
36	Joule Heating a Palladium Nanowire Sensor for Accelerated Response and Recovery to Hydrogen Gas. Small, 2010, 6, 1422-1429.	5.2	127

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37	A Hybrid Electrochemical/Chemical Synthesis of Zinc Oxide Nanoparticles and Optically Intrinsic Thin Films. Chemistry of Materials, 1998, 10, 1120-1129.	3.2	125
38	Molybdenum Disulfide Nanowires and Nanoribbons by Electrochemical/Chemical Synthesis. Journal of Physical Chemistry B, 2005, 109, 3169-3182.	1.2	119
39	Synthesis of Molybdenum Nanowires with Millimeter-Scale Lengths Using Electrochemical Step Edge Decoration. Chemistry of Materials, 2002, 14, 3206-3216.	3.2	116
40	Nanometerâ€scale electrochemical deposition of silver on graphite using a scanning tunneling microscope. Applied Physics Letters, 1992, 60, 1181-1183.	1.5	114
41	Sensors from electrodeposited metal nanowires. Surface and Interface Analysis, 2002, 34, 409-412.	0.8	113
42	Catalytically Activated Palladium@Platinum Nanowires for Accelerated Hydrogen Gas Detection. ACS Nano, 2015, 9, 3215-3225.	7.3	113
43	Bismuth Telluride (Bi2Te3) Nanowires:â€‰ Synthesis by Cyclic Electrodeposition/Stripping, Thinning by Electrooxidation, and Electrical Power Generation. Langmuir, 2006, 22, 10564-10574.	1.6	111
44	Subnanometer Silver Clusters Exhibiting Unexpected Electrochemical Metastability on Graphite. Langmuir, 2000, 16, 4016-4023.	1.6	108
45	Hybrid Electrochemical/Chemical Synthesis of Quantum Dots. Accounts of Chemical Research, 2000, 33, 78-86.	7.6	108
46	Bismuth Telluride (Bi2Te3) Nanowires Synthesized by Cyclic Electrodeposition/Stripping Coupled with Step Edge Decoration. Nano Letters, 2004, 4, 2009-2014.	4.5	108
47	Preparation and electrochemical characterization of conical and hemispherical ultramicroelectrodes. Analytical Chemistry, 1989, 61, 1630-1636.	3.2	101
48	Chemical Sensing with Nanowires. Annual Review of Analytical Chemistry, 2012, 5, 461-485.	2.8	100
49	Electronically Conductive Composite Polymer Membranes. Journal of the Electrochemical Society, 1986, 133, 310-315.	1.3	99
50	Electrochemical investigations of electronically conductive polymers. 2. Evaluation of charge-transport rates in polypyrrole using an alternating current impedance method. The Journal of Physical Chemistry, 1989, 93, 984-989.	2.9	93
51	Nanometer-Scale Electropolymerization of Aniline Using the Scanning Tunneling Microscope. The Journal of Physical Chemistry, 1996, 100, 17041-17049.	2.9	93
52	Synthesis of PbTe Nanowire Arrays using Lithographically Patterned Nanowire Electrodeposition. Nano Letters, 2008, 8, 2447-2451.	4.5	93
53	Hybrid Electrochemical/Chemical Synthesis of Supported, Luminescent Semiconductor Nanocrystallites with Size Selectivity:â€‰ Copper(I) Iodide. Journal of the American Chemical Society, 1997, 119, 1439-1448.	6.6	92
54	Size-Selective and Epitaxial Electrochemical/Chemical Synthesis of Sulfur-Passivated Cadmium Sulfide Nanocrystals on Graphite. Journal of the American Chemical Society, 1998, 120, 9584-9593.	6.6	87

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55	Electrochemical evaluation of charge-transport rates in polypyrrole. The Journal of Physical Chemistry, 1988, 92, 5274-5282.	2.9	86
56	Nanocrystalline Î±-MnO2Nanowires by Electrochemical Step-Edge Decoration. Chemistry of Materials, 2004, 16, 3402-3405.	3.2	85
57	A Nose for Hydrogen Gas: Fast, Sensitive H₂ Sensors Using Electrodeposited Nanomaterials. Accounts of Chemical Research, 2017, 50, 1902-1910.	7.6	85
58	The Surface Scattering-Based Detection of Hydrogen in Air Using a Platinum Nanowire. Nano Letters, 2012, 12, 2924-2930.	4.5	83
59	Hollow Pdâ€“Ag Composite Nanowires for Fast Responding and Transparent Hydrogen Sensors. ACS Applied Materials & Interfaces, 2017, 9, 39464-39474.	4.0	82
60	Electronic devices from electrodeposited metal nanowires. Microelectronic Engineering, 2002, 61-62, 555-561.	1.1	81
61	A nanometer-scale galvanic cell. The Journal of Physical Chemistry, 1992, 96, 6529-6532.	2.9	78
62	Observations of a circular, triple-helical polysaccharide using noncontact atomic force microscopy. Macromolecules, 1995, 28, 6375-6377.	2.2	77
63	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. ACS Nano, 2016, 10, 9093-9103.	7.3	77
64	Ion Transporting Composite Membranes: I . Nafionâ€Impregnated Goreâ€Tex. Journal of the Electrochemical Society, 1985, 132, 514-515.	1.3	76
65	Virus Electrodes for Universal Biodetection. Analytical Chemistry, 2006, 78, 3265-3270.	3.2	75
66	Hierarchical Metalâ€“Organic Framework-Assembled Membrane Filter for Efficient Removal of Particulate Matter. ACS Applied Materials & Interfaces, 2018, 10, 19957-19963.	4.0	74
67	Electrically Transduced Sensors Based on Nanomaterials (2012â€“2016). Analytical Chemistry, 2017, 89, 249-275.	3.2	71
68	Pt-Functionalized PdO Nanowires for Room Temperature Hydrogen Gas Sensors. ACS Sensors, 2018, 3, 2152-2158.	4.0	70
69	Cheating the diffraction limit: electrodeposited nanowires patterned by photolithography. Chemical Communications, 2009, , 859.	2.2	67
70	Implementation of Electrochemically Synthesized Silver Nanocrystallites for the Preferential SERS Enhancement of Defect Modes on Thermally Etched Graphite Surfaces. Analytical Chemistry, 1996, 68, 1585-1592.	3.2	66
71	Physical Vapor Deposition of One-Dimensional Nanoparticle Arrays on Graphite:â€‰ Seeding the Electrodeposition of Gold Nanowires. Langmuir, 2007, 23, 10372-10379.	1.6	66
72	Phase Separation in AlxGa1-xAs Nanowhiskers Grown by the Solutionâˆ'Liquidâˆ'Solid Mechanism. Journal of the American Chemical Society, 2001, 123, 4502-4511.	6.6	65

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73	Sub-6 nm Palladium Nanoparticles for Faster, More Sensitive H₂ Detection Using Carbon Nanotube Ropes. ACS Sensors, 2017, 2, 282-289.	4.0	62
74	Brownian Dynamics Simulations of the Growth of Metal Nanocrystal Ensembles on Electrode Surfaces in Solution:â€‰ 2. The Effect of Deposition Rate on Particle Size Dispersion. Journal of Physical Chemistry B, 2001, 105, 8672-8678.	1.2	58
75	Sub-nanomolar Detection of Prostate-Specific Membrane Antigen in Synthetic Urine by Synergistic, Dual-Ligand Phage. Journal of the American Chemical Society, 2013, 135, 7761-7767.	6.6	56
76	Tunable Photoconduction Sensitivity and Bandwidth for Lithographically Patterned Nanocrystalline Cadmium Selenide Nanowires. ACS Nano, 2011, 5, 7627-7639.	7.3	54
77	Preparation of STM tips for <i>inâ€situ</i> characterization of electrode surfaces. Journal of Microscopy, 1988, 152, 651-661.	0.8	51
78	Trace Detection of Dissolved Hydrogen Gas in Oil Using a Palladium Nanowire Array. Analytical Chemistry, 2011, 83, 9472-9477.	3.2	50
79	Virusâ€“Polymer Hybrid Nanowires Tailored to Detect Prostate-Specific Membrane Antigen. Analytical Chemistry, 2012, 84, 2776-2783.	3.2	48
80	Silver Oxide Microwires:â€‰ Electrodeposition and Observation of Reversible Resistance Modulation upon Exposure to Ammonia Vapor. Chemistry of Materials, 2005, 17, 6611-6618.	3.2	47
81	Electrostatic force microscopy of silver nanocrystals with nanometer-scale resolution. Applied Physics Letters, 1997, 71, 1878-1880.	1.5	46
82	Multimode Detection of Hydrogen Gas Using Palladium-Covered Silicon Î¼-Channels. Analytical Chemistry, 2003, 75, 4756-4765.	3.2	45
83	Spatial Control of Coherent Anti-Stokes Emission with Height-Modulated Gold Zig-Zag Nanowires. Nano Letters, 2008, 8, 2373-2377.	4.5	44
84	Reversible Resistance Modulation in Mesoscopic Silver Wires Induced by Exposure to Amine Vapor. Analytical Chemistry, 2005, 77, 5205-5214.	3.2	43
85	Reconnectable Sub-5 nm Nanogaps in Ultralong Gold Nanowires. Nano Letters, 2009, 9, 2133-2138.	4.5	42
86	Lithographically Patterned PEDOT Nanowires for the Detection of Iron(III) with Nanomolar Sensitivity. Analytical Chemistry, 2015, 87, 11492-11500.	3.2	42
87	â€œBeadedâ€•Bimetallic Nanowires: Wiring Nanoparticles of Metal 1 Using Nanowires of Metal 2. Advanced Materials, 2003, 15, 396-399.	11.1	41
88	Polarization-Dependent Surface Enhanced Raman Scattering from Silver 1D Nanoparticle Arrays. Journal of Physical Chemistry C, 2008, 112, 11609-11613.	1.5	41
89	Covalent Virus Layer for Mass-Based Biosensing. Analytical Chemistry, 2008, 80, 933-943.	3.2	39
90	Mechanistic investigations of nanometerâ€scale lithography at liquidâ€covered graphite surfaces. Applied Physics Letters, 1991, 58, 1389-1391.	1.5	38

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91	Tunable Two-Photon Excited Luminescence in Single Gold Nanowires Fabricated by Lithographically Patterned Nanowire Electrodeposition. Journal of Physical Chemistry C, 2008, 112, 12721-12727.	1.5	38
92	Wafer-Scale Patterning of Lead Telluride Nanowires: Structure, Characterization, and Electrical Properties. ACS Nano, 2009, 3, 4144-4154.	7.3	38
93	Deposition of metal nanostructures onto Si(111) surfaces by field evaporation in the scanning tunneling microscope. Applied Physics Letters, 1994, 64, 1350-1352.	1.5	37
94	Luminescent Polycrystalline Cadmium Selenide Nanowires Synthesized by Cyclic Electrodeposition/Stripping Coupled with Step Edge Decoration. Chemistry of Materials, 2006, 18, 3432-3441.	3.2	37
95	Direct Electrical Transduction of Antibody Binding to a Covalent Virus Layer Using Electrochemical Impedance. Analytical Chemistry, 2008, 80, 5695-5705.	3.2	36
96	Solid-State Ionic Diodes Demonstrated in Conical Nanopores. Journal of Physical Chemistry C, 2017, 121, 6170-6176.	1.5	36
97	Virus-Enabled Biosensor for Human Serum Albumin. Analytical Chemistry, 2017, 89, 1373-1381.	3.2	36
98	Virusâ˜'Poly(3,4-ethylenedioxythiophene) Composite Films for Impedance-Based Biosensing. Analytical Chemistry, 2011, 83, 2420-2424.	3.2	35
99	100k Cycles and Beyond: Extraordinary Cycle Stability for MnO₂ Nanowires Imparted by a Gel Electrolyte. ACS Energy Letters, 2016, 1, 57-63.	8.8	35
100	Enhanced photoemission from short-wavelength photochemically etched porous silicon. The Journal of Physical Chemistry, 1993, 97, 4505-4508.	2.9	33
101	Interactions of gaseous nitric acid with surfaces of environmental interest. Physical Chemistry Chemical Physics, 2004, 6, 3879.	1.3	31
102	Gold Nanowire Thermophones. Journal of Physical Chemistry C, 2014, 118, 29101-29107.	1.5	31
103	Coupled Electrooxidation and Electrical Conduction in a Single Gold Nanowire. Nano Letters, 2008, 8, 3017-3022.	4.5	30
104	Photovoltaic devices based on electrochemicalâ€"chemical deposited CdS and poly3-octylthiophene thin films. Solar Energy Materials and Solar Cells, 2009, 93, 51-54.	3.0	30
105	Sensors Based Upon Nanowires, Nanotubes, and Nanoribbons: 2016â€"2020. Analytical Chemistry, 2021, 93, 124-166.	3.2	30
106	Self-Assembly of n-Alkanethiolate Monolayers on Silver Nanostructures: Determination of the Apparent Thickness of the Monolayer by Scanning Tunneling Microscopy. The Journal of Physical Chemistry, 1994, 98, 11751-11755.	2.9	29
107	Chemical Vapor Deposition of Silica Micro- and Nanoribbons Using Step-Edge Localized Water. Journal of Physical Chemistry B, 2003, 107, 5393-5397.	1.2	29
108	Size-Selective Growth of Nanoscale Tetrathiafulvalene Bromide Crystallites on Platinum Particles. Advanced Materials, 2001, 13, 1567.	11.1	26

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109	A Chemically-Responsive Nanojunction within a Silver Nanowire. Nano Letters, 2012, 12, 1729-1735.	4.5	26
110	Electrodeposition of silverâ€“copper bimetallic particles having two archetypes by facilitated nucleation. Journal of Electroanalytical Chemistry, 2002, 522, 86-94.	1.9	25
111	High-Throughput Fabrication of Photoconductors with High Detectivity, Photosensitivity, and Bandwidth. ACS Nano, 2012, 6, 5627-5634.	7.3	25
112	Self-Assembly of n-Alkanethiolate Monolayers on Silver Nanostructures: Protective Encapsulation. Langmuir, 1995, 11, 4361-4365.	1.6	24
113	Shrinking Nanowires by Kinetically Controlled Electrooxidation. Journal of Physical Chemistry B, 2006, 110, 36-41.	1.2	23
114	High-Throughput Measurement of the Seebeck Coefficient and the Electrical Conductivity of Lithographically Patterned Polycrystalline PbTe Nanowires. Journal of Physical Chemistry Letters, 2010, 1, 3004-3011.	2.1	23
115	Electrodeposited Submicron Thermocouples with Microsecond Response Times. Nano Letters, 2007, 7, 3208-3213.	4.5	22
116	Nanoscience and Nanotechnology Impacting Diverse Fields of Science, Engineering, and Medicine. ACS Nano, 2016, 10, 10615-10617.	7.3	22
117	The Promise of Phage Display: Customized Affinity and Specificity. Analytical Chemistry, 2008, 80, 3082-3089.	3.2	20
118	The Virus Bioresistor: Wiring Virus Particles for the Direct, Label-Free Detection of Target Proteins. Nano Letters, 2018, 18, 3623-3629.	4.5	20
119	Electrochemical Quantification of Glycated and Non-glycated Human Serum Albumin in Synthetic Urine. ACS Applied Materials & Interfaces, 2019, 11, 4757-4765.	4.0	20
120	The Rising and Receding Fortunes of Electrochemists. ACS Nano, 2016, 10, 3875-3876.	7.3	19
121	Virus Bioresistor (VBR) for Detection of Bladder Cancer Marker DJ-1 in Urine at 10 pM in One Minute. Analytical Chemistry, 2020, 92, 6654-6666.	3.2	19
122	Assembly of fatty acid bilayers on hydrophobic substrates using a horizontal deposition procedure. Langmuir, 1992, 8, 1243-1246.	1.6	18
123	Electrodeposition of Metal Nanostructures by Galvanic Displacement Powered with Insoluble Crystals of a Ferrocene Derivative. ChemPhysChem, 2004, 5, 1879-1884.	1.0	18
124	A Lithographically Patterned Capacitor with Horizontal Nanowires of Length 2.5 mm. ACS Applied Materials & Interfaces, 2014, 6, 5018-5025.	4.0	18
125	Ion transport in gel and gelâ€“liquid systems for LiClO₄-doped PMMA at the meso- and nanoscales. Nanoscale, 2017, 9, 16232-16243.	2.8	18
126	Hydrogen Sensing with a Single Palladium Nanowire. Sensor Letters, 2010, 8, 534-538.	0.4	17

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127	Scanning tunneling microscopy investigations of the Si(111) topography produced by etching in 40% NH4F: Observation of an optimum etch duration. Applied Physics Letters, 1993, 63, 1119-1121.	1.5	16
128	Characterization of Electrodeposited Gold and Palladium Nanowire Gratings with Optical Diffraction Measurements. Analytical Chemistry, 2009, 81, 5585-5592.	3.2	16
129	Fabricating Nanoscale DNA Patterns with Gold Nanowires. Analytical Chemistry, 2010, 82, 3365-3370.	3.2	16
130	Virus-Poly(3,4-ethylenedioxythiophene) Biocomposite Films. Langmuir, 2012, 28, 12581-12587.	1.6	16
131	Electrophoretic Deposition of Mesoporous Niobium(V)Oxide Nanoscopic Films. Chemistry of Materials, 2018, 30, 6549-6558.	3.2	16
132	In Situ Electrical Conductivity of Li_{<i>x</i>}MnO₂ Nanowires as a Function of <i>x</i> and Size. Chemistry of Materials, 2015, 27, 3494-3504.	3.2	13
133	An Impedance-Transduced Chemiresistor with a Porous Carbon Channel for Rapid, Nonenzymatic, Glucose Sensing. Analytical Chemistry, 2018, 90, 9338-9346.	3.2	13
134	Atomic resolution imaging of electrode surfaces in solutions containing reversible redox species. Applied Physics Letters, 1989, 54, 1421-1423.	1.5	12
135	Observing Electroluminescence from Yellow Luminescence-Like Defects in GaN High Electron Mobility Transistors. Japanese Journal of Applied Physics, 2008, 47, 3336-3339.	0.8	12
136	Transient photocurrent spectroscopy: Electrical detection of optical absorption for supported semiconductor nanocrystals in a simple device geometry. Applied Physics Letters, 1998, 72, 2301-2303.	1.5	11
137	Lithographically patterned nanowire electrodeposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3503-3505.	0.8	11
138	Electrodeposition of nanowires for the detection of hydrogen gas. MRS Bulletin, 2010, 35, 771-777.	1.7	11
139	Field-Effect Transistors from Lithographically Patterned Cadmium Selenide Nanowire Arrays. ACS Applied Materials & Interfaces, 2012, 4, 4445-4452.	4.0	11
140	Electrodeposited Nanophotonics. Journal of Physical Chemistry C, 2014, 118, 17179-17192.	1.5	11
141	Collateral Advantages of a Gel Electrolyte for MnO₂ Nanowire Capacitors: Higher Voltage and Reduced Volume. ACS Energy Letters, 2017, 2, 1162-1169.	8.8	11
142	Investigating the Degradation of Nb₂O₅ Thin Films Across 10,000 Lithiation/Delithiation Cycles. ACS Applied Energy Materials, 2021, 4, 6542-6552.	2.5	11
143	Rapid, Wafer-Scale Laser Nanoprinting of Polymer Surfaces. ACS Nano, 2011, 5, 690-692.	7.3	10
144	Laser Annealing of Nanocrystalline Gold Nanowires. ACS Applied Materials & Interfaces, 2013, 5, 6808-6814.	4.0	9

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145	Electroluminescent, Polycrystalline Cadmium Selenide Nanowire Arrays. ACS Nano, 2013, 7, 9469-9479.	7.3	9
146	Wafer-Scale Fabrication of Nanofluidic Arrays and Networks Using Nanoimprint Lithography and Lithographically Patterned Nanowire Electrodeposition Gold Nanowire Masters. Analytical Chemistry, 2012, 84, 5053-5058.	3.2	8
147	Electrodeposited, Transverse Nanowire Electroluminescent Junctions. ACS Nano, 2016, 10, 8233-8242.	7.3	8
148	Viruses Masquerading as Antibodies in Biosensors: The Development of the Virus BioResistor. Accounts of Chemical Research, 2020, 53, 2384-2394.	7.6	8
149	Synthesis of a Virus Electrode for Measurement of Prostate Specific Membrane Antigen. Methods in Molecular Biology, 2009, 504, 255-274.	0.4	8
150	Thermocouples from Electrodeposited Submicrometer Wires Prepared by Electrochemical Step Edge Decoration. Chemistry of Materials, 2008, 20, 5464-5474.	3.2	7
151	Protons on tap. Nature Chemistry, 2010, 2, 251-252.	6.6	7
152	Water Oxidation Using a Cobalt Monolayer Prepared by Underpotential Deposition. Langmuir, 2013, 29, 14728-14732.	1.6	7
153	A Year for Nanoscience. ACS Nano, 2014, 8, 11901-11903.	7.3	6
154	Rational design approaches of two-dimensional metal oxides for chemiresistive gas sensors: A comprehensive review. MRS Bulletin, 2021, 46, 1080-1094.	1.7	6
155	Applications of Scanning Tunneling Microscopy to Electrochemistry. ACS Symposium Series, 1988, , 174-201.	0.5	5
156	Be Critical but Fair. ACS Nano, 2013, 7, 8313-8316.	7.3	5
157	Electrodeposited Light-Emitting Nanojunctions. Chemistry of Materials, 2013, 25, 623-631.	3.2	5
158	A 30 Î¼m Coaxial Nanowire Photoconductor Enabling Orthogonal Carrier Collection. Nano Letters, 2015, 15, 5861-5867.	4.5	5
159	Enhancing the Sensitivity of the Virus BioResistor by Overoxidation: Detecting IgG Antibodies. Analytical Chemistry, 2021, 93, 11259-11267.	3.2	5
160	Electrochemical Investigation of Electronically Conductive Polymers. , 1989, , 119-139.		5
161	Nanoscience and Nanotechnology Cross Borders. ACS Nano, 2017, 11, 1123-1126.	7.3	4
162	Measurement of the Localized Viscosity of Molecular Assemblies Using Nanoscopic Defects Induced with the Scanning Tunneling Microscope. The Journal of Physical Chemistry, 1994, 98, 2663-2667.	2.9	3

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163	Electrodeposition of portable, metal nanowire arrays. , 2002, 4807, 83.		3
164	We Take It Personally. ACS Nano, 2012, 6, 10417-10419.	7.3	3
165	Grand Plans for Nano. ACS Nano, 2015, 9, 11503-11505.	7.3	3
166	Supercharging a MnO₂ Nanowire: An Amine-Altered Morphology Retains Capacity at High Rates and Mass Loadings. Langmuir, 2017, 33, 9324-9332.	1.6	3
167	Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite. Analytica Chimica Acta, 1995, 307, 377-391.	2.6	2
168	Electrochemically grown single-nanowire sensors. , 2004, , .		2
169	ELECTRODEPOSITION OF NANOSTRUCTURES AND MICROSTRUCTURES ON HIGHLY ORIENTED PYROLYTIC GRAPHITE (HOPG). , 2007, , 661-677.		2
170	Coherent anti-Stokes generation from single nanostructures. Proceedings of SPIE, 2009, , .	0.8	2
171	Rapid, Wet Chemical Fabrication of Radial Junction Electroluminescent Wires. ACS Applied Materials & Interfaces, 2018, 10, 35344-35353.	4.0	2
172	Moving Electrons Purposefully through Single Molecules and Nanostructures: A Tribute to the Science of Professor Nongjian Tao (1963â€“2020). ACS Nano, 2020, 14, 12291-12312.	7.3	2
173	Biosensing with Virus Electrode Hybrids. Current Protocols in Chemical Biology, 2015, 7, 53-72.	1.7	2
174	Pulse Induced Nanolithography of Graphite in H2O: A Road to Chemical Linkages to the Surface?. AIP Conference Proceedings, 1991, , .	0.3	1
175	Exciting Times for Nano. ACS Nano, 2013, 7, 10437-10439.	7.3	1
176	A Big Year Ahead for Nano in 2018. ACS Nano, 2017, 11, 11755-11757.	7.3	1
177	Tutorials and Articles on Best Practices. ACS Nano, 2020, 14, 10751-10753.	7.3	1
178	Growing Contributions of Nano in 2020. ACS Nano, 2020, 14, 16163-16164.	7.3	1
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