

Reginald M Penner

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167
papers

13,329
citations

63
h-index

113
g-index

195
ext. papers

14,800
ext. citations

10.2
avg, IF

6.75
L-index

#	Paper	IF	Citations
167	Hydrogen sensors and switches from electrodeposited palladium mesowire arrays. <i>Science</i> , 2001 , 293, 2227-31	33.3	1187
166	Energy Storage in Nanomaterials - Capacitive, Pseudocapacitive, or Battery-like?. <i>ACS Nano</i> , 2018 , 12, 2081-2083	16.7	765
165	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
164	Molybdenum nanowires by electrodeposition. <i>Science</i> , 2000 , 290, 2120-3	33.3	549
163	Mesoscopic Metal Particles and Wires by Electrodeposition. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3339-3353	3.4	341
162	Photoluminescence and polarized photodetection of single ZnO nanowires. <i>Applied Physics Letters</i> , 2004 , 85, 6128-6130	3.4	305
161	Lithographically patterned nanowire electrodeposition. <i>Nature Materials</i> , 2006 , 5, 914-9	27	274
160	Preparation and electrochemical characterization of ultramicroelectrode ensembles. <i>Analytical Chemistry</i> , 1987 , 59, 2625-2630	7.8	250
159	Electrochemically Grown Wires for Individually Addressable Sensor Arrays. <i>Nano Letters</i> , 2004 , 4, 419-422	11.5	213
158	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 1243-1295	16.7	209
157	Palladium mesowire arrays for fast hydrogen sensors and hydrogen-actuated switches. <i>Analytical Chemistry</i> , 2002 , 74, 1546-53	7.8	206
156	Electrochemical Deposition of Silver Nanocrystallites on the Atomically Smooth Graphite Basal Plane. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 837-844		204
155	Fast, sensitive hydrogen gas detection using single palladium nanowires that resist fracture. <i>Nano Letters</i> , 2009 , 9, 2177-82	11.5	193
154	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 604	3.6	182
153	Smaller is faster and more sensitive: the effect of wire size on the detection of hydrogen by single palladium nanowires. <i>ACS Nano</i> , 2010 , 4, 5233-44	16.7	181
152	Noble and Coinage Metal Nanowires by Electrochemical Step Edge Decoration. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11407-11411	3.4	168
151	Polycrystalline Molybdenum Disulfide (2H-MoS ₂) Nano- and Microribbons by Electrochemical/Chemical Synthesis. <i>Nano Letters</i> , 2004 , 4, 277-281	11.5	163

150	Mesoporous manganese oxide nanowires for high-capacity, high-rate, hybrid electrical energy storage. <i>ACS Nano</i> , 2011 , 5, 8275-87	16.7	150
149	20 micros photocurrent response from lithographically patterned nanocrystalline cadmium selenide nanowires. <i>Nano Letters</i> , 2010 , 10, 1481-5	11.5	148
148	Investigation of a single Pd nanowire for use as a hydrogen sensor. <i>Small</i> , 2006 , 2, 356-8	11	143
147	Nanocrystalline Nickel Nanoparticles. <i>Advanced Materials</i> , 2000 , 12, 878-883	24	142
146	Photoconductive cadmium sulfide hemicylindrical shell nanowire ensembles. <i>Nano Letters</i> , 2005 , 5, 1720-1725	11.5	137
145	Size-selective electrodeposition of meso-scale metal particles: a general method. <i>Electrochimica Acta</i> , 2001 , 47, 671-677	6.7	136
144	Enhanced thermoelectric metrics in ultra-long electrodeposited PEDOT nanowires. <i>Nano Letters</i> , 2011 , 11, 125-31	11.5	134
143	Amine Vapor Sensing with Silver Mesowires. <i>Nano Letters</i> , 2004 , 4, 665-670	11.5	127
142	Controlling the Morphology of Electronically Conductive Polymers. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 2206-2207	3.9	125
141	Lithographically patterned nanowire electrodeposition: a method for patterning electrically continuous metal nanowires on dielectrics. <i>ACS Nano</i> , 2008 , 2, 1939-49	16.7	124
140	Metal nanowire arrays by electrodeposition. <i>ChemPhysChem</i> , 2003 , 4, 131-8	3.2	124
139	Accelerating Palladium Nanowire H Sensors Using Engineered Nanofiltration. <i>ACS Nano</i> , 2017 , 11, 9276-9285	11.5	123
138	Shape- and size-selective electrochemical synthesis of dispersed silver(I) oxide colloids. <i>Nano Letters</i> , 2005 , 5, 2319-24	11.5	123
137	Virus-PEDOT nanowires for biosensing. <i>Nano Letters</i> , 2010 , 10, 4858-62	11.5	121
136	Lithographically Patterned Gold/Manganese Dioxide Core/Shell Nanowires for High Capacity, High Rate, and High Cyclability Hybrid Electrical Energy Storage. <i>Chemistry of Materials</i> , 2012 , 24, 2382-2390	9.6	120
135	A Hybrid Electrochemical/Chemical Synthesis of Zinc Oxide Nanoparticles and Optically Intrinsic Thin Films. <i>Chemistry of Materials</i> , 1998 , 10, 1120-1129	9.6	116
134	Joule heating a palladium nanowire sensor for accelerated response and recovery to hydrogen gas. <i>Small</i> , 2010 , 6, 1422-9	11	111
133	Molybdenum disulfide nanowires and nanoribbons by electrochemical/chemical synthesis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3169-82	3.4	111

132	Synthesis of Molybdenum Nanowires with Millimeter-Scale Lengths Using Electrochemical Step Edge Decoration. <i>Chemistry of Materials</i> , 2002 , 14, 3206-3216	9.6	109
131	Sensors from polymer modified electrodes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986 , 82, 1051		109
130	Bismuth telluride (Bi ₂ Te ₃) nanowires: synthesis by cyclic electrodeposition/stripping, thinning by electrooxidation, and electrical power generation. <i>Langmuir</i> , 2006 , 22, 10564-74	4	104
129	Sensors from electrodeposited metal nanowires. <i>Surface and Interface Analysis</i> , 2002 , 34, 409-412	1.5	102
128	Bismuth Telluride (Bi ₂ Te ₃) Nanowires Synthesized by Cyclic Electrodeposition/Stripping Coupled with Step Edge Decoration. <i>Nano Letters</i> , 2004 , 4, 2009-2014	11.5	102
127	Subnanometer Silver Clusters Exhibiting Unexpected Electrochemical Metastability on Graphite. <i>Langmuir</i> , 2000 , 16, 4016-4023	4	101
126	Nanometer-scale electrochemical deposition of silver on graphite using a scanning tunneling microscope. <i>Applied Physics Letters</i> , 1992 , 60, 1181-1183	3.4	97
125	Chemical sensing with nanowires. <i>Annual Review of Analytical Chemistry</i> , 2012 , 5, 461-85	12.5	92
124	Hybrid electrochemical/chemical synthesis of quantum dots. <i>Accounts of Chemical Research</i> , 2000 , 33, 78-86	24.3	90
123	Catalytically activated palladium@platinum nanowires for accelerated hydrogen gas detection. <i>ACS Nano</i> , 2015 , 9, 3215-25	16.7	84
122	Synthesis of PbTe nanowire arrays using lithographically patterned nanowire electrodeposition. <i>Nano Letters</i> , 2008 , 8, 2447-51	11.5	84
121	Nanometer-Scale Electropolymerization of Aniline Using the Scanning Tunneling Microscope. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17041-17049		83
120	Preparation and electrochemical characterization of conical and hemispherical ultramicroelectrodes. <i>Analytical Chemistry</i> , 1989 , 61, 1630-1636	7.8	82
119	Electrochemical investigations of electronically conductive polymers. 2. Evaluation of charge-transport rates in polypyrrole using an alternating current impedance method. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 984-989		81
118	Hybrid Electrochemical/Chemical Synthesis of Supported, Luminescent Semiconductor Nanocrystallites with Size Selectivity: Copper(I) Iodide. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1439-1448	16.4	80
117	Nanocrystalline EMnO_2 Nanowires by Electrochemical Step-Edge Decoration. <i>Chemistry of Materials</i> , 2004 , 16, 3402-3405	9.6	78
116	Electronically Conductive Composite Polymer Membranes. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 310-315	3.9	76
115	Electrochemical evaluation of charge-transport rates in polypyrrole. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 5274-5282		76

114	Size-Selective and Epitaxial Electrochemical/Chemical Synthesis of Sulfur-Passivated Cadmium Sulfide Nanocrystals on Graphite. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9584-9593	16.4	75
113	Observations of a circular, triple-helical polysaccharide using noncontact atomic force microscopy. <i>Macromolecules</i> , 1995 , 28, 6375-6377	5.5	74
112	Virus electrodes for universal biodetection. <i>Analytical Chemistry</i> , 2006 , 78, 3265-70	7.8	73
111	The surface scattering-based detection of hydrogen in air using a platinum nanowire. <i>Nano Letters</i> , 2012 , 12, 2924-30	11.5	67
110	Electronic devices from electrodeposited metal nanowires. <i>Microelectronic Engineering</i> , 2002 , 61-62, 555-561	2.5	66
109	Implementation of Electrochemically Synthesized Silver Nanocrystallites for the Preferential SERS Enhancement of Defect Modes on Thermally Etched Graphite Surfaces. <i>Analytical Chemistry</i> , 1996 , 68, 1585-92	7.8	64
108	A nanometer-scale galvanic cell. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 6529-6532		64
107	Ion Transporting Composite Membranes: I. Nafion-Impregnated Gore-Tex. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 514-515	3.9	64
106	Cheating the diffraction limit: electrodeposited nanowires patterned by photolithography. <i>Chemical Communications</i> , 2009 , 859-73	5.8	63
105	Physical vapor deposition of one-dimensional nanoparticle arrays on graphite: seeding the electrodeposition of gold nanowires. <i>Langmuir</i> , 2007 , 23, 10372-9	4	62
104	A Nose for Hydrogen Gas: Fast, Sensitive H Sensors Using Electrodeposited Nanomaterials. <i>Accounts of Chemical Research</i> , 2017 , 50, 1902-1910	24.3	59
103	Hollow Pd-Ag Composite Nanowires for Fast Responding and Transparent Hydrogen Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39464-39474	9.5	58
102	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. <i>ACS Nano</i> , 2016 , 10, 9093-9103	16.3	56
101	Phase separation in Al _x Ga _{1-x} As nanowhiskers grown by the solution-liquid-solid mechanism. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4502-11	16.4	55
100	Electrically Transduced Sensors Based on Nanomaterials (2012-2016). <i>Analytical Chemistry</i> , 2017 , 89, 249-275	7.8	54
99	Brownian Dynamics Simulations of the Growth of Metal Nanocrystal Ensembles on Electrode Surfaces in Solution: 2. The Effect of Deposition Rate on Particle Size Dispersion. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8672-8678	3.4	53
98	Hierarchical Metal-Organic Framework-Assembled Membrane Filter for Efficient Removal of Particulate Matter. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19957-19963	9.5	52
97	Sub-nanomolar detection of prostate-specific membrane antigen in synthetic urine by synergistic, dual-ligand phage. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7761-7	16.4	49

96	Preparation of STM tips for in-situ characterization of electrode surfaces. <i>Journal of Microscopy</i> , 1988 , 152, 651-661	1.9	48
95	Tunable photoconduction sensitivity and bandwidth for lithographically patterned nanocrystalline cadmium selenide nanowires. <i>ACS Nano</i> , 2011 , 5, 7627-39	16.7	47
94	Virus-polymer hybrid nanowires tailored to detect prostate-specific membrane antigen. <i>Analytical Chemistry</i> , 2012 , 84, 2776-83	7.8	46
93	Pt-Functionalized PdO Nanowires for Room Temperature Hydrogen Gas Sensors. <i>ACS Sensors</i> , 2018 , 3, 2152-2158	9.2	46
92	Sub-6 nm Palladium Nanoparticles for Faster, More Sensitive H Detection Using Carbon Nanotube Ropes. <i>ACS Sensors</i> , 2017 , 2, 282-289	9.2	44
91	Silver Oxide Microwires: Electrodeposition and Observation of Reversible Resistance Modulation upon Exposure to Ammonia Vapor. <i>Chemistry of Materials</i> , 2005 , 17, 6611-6618	9.6	43
90	Chemiresistive Hydrogen Sensors: Fundamentals, Recent Advances, and Challenges. <i>ACS Nano</i> , 2020 , 14, 14284-14322	16.7	41
89	Beaded Bimetallic Nanowires: Wiring Nanoparticles of Metal 1 Using Nanowires of Metal 2. <i>Advanced Materials</i> , 2003 , 15, 396-399	24	40
88	Multimode detection of hydrogen gas using palladium-covered silicon micro-channels. <i>Analytical Chemistry</i> , 2003 , 75, 4756-65	7.8	40
87	Electrostatic force microscopy of silver nanocrystals with nanometer-scale resolution. <i>Applied Physics Letters</i> , 1997 , 71, 1878-1880	3.4	39
86	Spatial control of coherent anti-stokes emission with height-modulated gold zig-zag nanowires. <i>Nano Letters</i> , 2008 , 8, 2373-7	11.5	39
85	Polarization-Dependent Surface Enhanced Raman Scattering from Silver 1D Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11609-11613	3.8	39
84	Tunable Two-Photon Excited Luminescence in Single Gold Nanowires Fabricated by Lithographically Patterned Nanowire Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12721-12727	3.8	37
83	Covalent virus layer for mass-based biosensing. <i>Analytical Chemistry</i> , 2008 , 80, 933-43	7.8	37
82	Reversible resistance modulation in mesoscopic silver wires induced by exposure to amine vapor. <i>Analytical Chemistry</i> , 2005 , 77, 5205-14	7.8	37
81	Trace detection of dissolved hydrogen gas in oil using a palladium nanowire array. <i>Analytical Chemistry</i> , 2011 , 83, 9472-7	7.8	36
80	Wafer-scale patterning of lead telluride nanowires: structure, characterization, and electrical properties. <i>ACS Nano</i> , 2009 , 3, 4144-54	16.7	36
79	Reconnectable sub-5 nm nanogaps in ultralong gold nanowires. <i>Nano Letters</i> , 2009 , 9, 2133-8	11.5	36

78	Mechanistic investigations of nanometer-scale lithography at liquid-covered graphite surfaces. <i>Applied Physics Letters</i> , 1991 , 58, 1389-1391	3.4	36
77	Virus-poly(3,4-ethylenedioxythiophene) composite films for impedance-based biosensing. <i>Analytical Chemistry</i> , 2011 , 83, 2420-4	7.8	34
76	Direct electrical transduction of antibody binding to a covalent virus layer using electrochemical impedance. <i>Analytical Chemistry</i> , 2008 , 80, 5695-705	7.8	34
75	Luminescent Polycrystalline Cadmium Selenide Nanowires Synthesized by Cyclic Electrodeposition/Stripping Coupled with Step Edge Decoration. <i>Chemistry of Materials</i> , 2006 , 18, 3432-3441	9.6	34
74	Deposition of metal nanostructures onto Si(111) surfaces by field evaporation in the scanning tunneling microscope. <i>Applied Physics Letters</i> , 1994 , 64, 1350-1352	3.4	33
73	100k Cycles and Beyond: Extraordinary Cycle Stability for MnO ₂ Nanowires Imparted by a Gel Electrolyte. <i>ACS Energy Letters</i> , 2016 , 1, 57-63	20.1	33
72	Lithographically Patterned PEDOT Nanowires for the Detection of Iron(III) with Nanomolar Sensitivity. <i>Analytical Chemistry</i> , 2015 , 87, 11492-500	7.8	32
71	Coupled electrooxidation and electrical conduction in a single gold nanowire. <i>Nano Letters</i> , 2008 , 8, 3017-23	7.2	30
70	Enhanced photoemission from short-wavelength photochemically etched porous silicon. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 4505-4508		30
69	Solid-State Ionic Diodes Demonstrated in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6170-6176	3.8	28
68	Interactions of gaseous nitric acid with surfaces of environmental interest. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 3879	3.6	28
67	Virus-Enabled Biosensor for Human Serum Albumin. <i>Analytical Chemistry</i> , 2017 , 89, 1373-1381	7.8	27
66	Photovoltaic devices based on electrochemically deposited CdS and poly(3-octylthiophene) thin films. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 51-54	6.4	26
65	Chemical Vapor Deposition of Silica Micro- and Nanoribbons Using Step-Edge Localized Water. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5393-5397	3.4	26
64	Self-Assembly of n-Alkanethiolate Monolayers on Silver Nanostructures: Determination of the Apparent Thickness of the Monolayer by Scanning Tunneling Microscopy. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 11751-11755		26
63	Gold Nanowire Thermophones. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29101-29107	3.8	25
62	Size-Selective Growth of Nanoscale Tetrathiafulvalene Bromide Crystallites on Platinum Particles. <i>Advanced Materials</i> , 2001 , 13, 1567	24	24
61	High-throughput fabrication of photoconductors with high detectivity, photosensitivity, and bandwidth. <i>ACS Nano</i> , 2012 , 6, 5627-34	16.7	21

60	High-Throughput Measurement of the Seebeck Coefficient and the Electrical Conductivity of Lithographically Patterned Polycrystalline PbTe Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3004-3011	6.4	20
59	The Promise of Phage Display: Customized Affinity and Specificity. <i>Analytical Chemistry</i> , 2008 , 80, 3082-3089	20	
58	Shrinking nanowires by kinetically controlled electrooxidation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 36-41	3.4	20
57	Electrodeposition of silver-copper bimetallic particles having two archetypes by facilitated nucleation. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 522, 86-94	4.1	20
56	Self-Assembly of n-Alkanethiolate Monolayers on Silver Nanostructures: Protective Encapsulation. <i>Langmuir</i> , 1995 , 11, 4361-4365	4	19
55	A lithographically patterned capacitor with horizontal nanowires of length 2.5 μm . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5018-25	9.5	18
54	A chemically-responsive nanojunction within a silver nanowire. <i>Nano Letters</i> , 2012 , 12, 1729-35	11.5	18
53	Electrodeposition of metal nanostructures by galvanic displacement powered with insoluble crystals of a ferrocene derivative. <i>ChemPhysChem</i> , 2004 , 5, 1879-84	3.2	18
52	Electrodeposited submicron thermocouples with microsecond response times. <i>Nano Letters</i> , 2007 , 7, 3208-13	11.5	17
51	Assembly of fatty acid bilayers on hydrophobic substrates using a horizontal deposition procedure. <i>Langmuir</i> , 1992 , 8, 1243-1246	4	16
50	Hydrogen Sensing with a Single Palladium Nanowire. <i>Sensor Letters</i> , 2010 , 8, 534-538	0.9	16
49	Virus-poly(3,4-ethylenedioxythiophene) biocomposite films. <i>Langmuir</i> , 2012 , 28, 12581-7	4	15
48	Scanning tunneling microscopy investigations of the Si(111) topography produced by etching in 40% NH ₄ F: Observation of an optimum etch duration. <i>Applied Physics Letters</i> , 1993 , 63, 1119-1121	3.4	15
47	Sensors Based Upon Nanowires, Nanotubes, and Nanoribbons: 2016-2020. <i>Analytical Chemistry</i> , 2021 , 93, 124-166	7.8	15
46	Fabricating nanoscale DNA patterns with gold nanowires. <i>Analytical Chemistry</i> , 2010 , 82, 3365-70	7.8	14
45	Characterization of electrodeposited gold and palladium nanowire gratings with optical diffraction measurements. <i>Analytical Chemistry</i> , 2009 , 81, 5585-92	7.8	14
44	Ion transport in gel and gel-liquid systems for LiClO ₄ -doped PMMA at the meso- and nanoscales. <i>Nanoscale</i> , 2017 , 9, 16232-16243	7.7	13
43	In Situ Electrical Conductivity of Li _x MnO ₂ Nanowires as a Function of x and Size. <i>Chemistry of Materials</i> , 2015 , 27, 3494-3504	9.6	13

42	The Virus Bioresistor: Wiring Virus Particles for the Direct, Label-Free Detection of Target Proteins. <i>Nano Letters</i> , 2018 , 18, 3623-3629	11.5	12
41	Electrochemical Quantification of Glycated and Non-glycated Human Serum Albumin in Synthetic Urine. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4757-4765	9.5	11
40	An Impedance-Transduced Chemiresistor with a Porous Carbon Channel for Rapid, Nonenzymatic, Glucose Sensing. <i>Analytical Chemistry</i> , 2018 , 90, 9338-9346	7.8	11
39	Electrodeposited Nanophotonics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17179-17192	3.8	11
38	Electrodeposition of nanowires for the detection of hydrogen gas. <i>MRS Bulletin</i> , 2010 , 35, 771-777	3.2	11
37	Observing Electroluminescence from Yellow Luminescence-Like Defects in GaN High Electron Mobility Transistors. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 3336-3339	1.4	11
36	Virus Bioresistor (VBR) for Detection of Bladder Cancer Marker DJ-1 in Urine at 10 pM in One Minute. <i>Analytical Chemistry</i> , 2020 , 92, 6654-6666	7.8	11
35	Electrophoretic Deposition of Mesoporous Niobium(V)Oxide Nanoscopic Films. <i>Chemistry of Materials</i> , 2018 , 30, 6549-6558	9.6	11
34	Field-effect transistors from lithographically patterned cadmium selenide nanowire arrays. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4445-52	9.5	10
33	Atomic resolution imaging of electrode surfaces in solutions containing reversible redox species. <i>Applied Physics Letters</i> , 1989 , 54, 1421-1423	3.4	10
32	Collateral Advantages of a Gel Electrolyte for MnO ₂ Nanowire Capacitors: Higher Voltage and Reduced Volume. <i>ACS Energy Letters</i> , 2017 , 2, 1162-1169	20.1	9
31	Electroluminescent, polycrystalline cadmium selenide nanowire arrays. <i>ACS Nano</i> , 2013 , 7, 9469-79	16.7	9
30	Lithographically patterned nanowire electrodeposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 3503-3505		9
29	Transient photocurrent spectroscopy: Electrical detection of optical absorption for supported semiconductor nanocrystals in a simple device geometry. <i>Applied Physics Letters</i> , 1998 , 72, 2301-2303	3.4	9
28	Rapid, wafer-scale laser nanoprinting of polymer surfaces. <i>ACS Nano</i> , 2011 , 5, 690-2	16.7	8
27	Wafer-scale fabrication of nanofluidic arrays and networks using nanoimprint lithography and lithographically patterned nanowire electrodeposition gold nanowire masters. <i>Analytical Chemistry</i> , 2012 , 84, 5053-8	7.8	7
26	Water oxidation using a cobalt monolayer prepared by underpotential deposition. <i>Langmuir</i> , 2013 , 29, 14728-32	4	7
25	Thermocouples From Electrodeposited Submicrometer Wires Prepared by Electrochemical Step Edge Decoration. <i>Chemistry of Materials</i> , 2008 , 20, 5464-5474	9.6	7

24	Synthesis of a virus electrode for measurement of prostate specific membrane antigen. <i>Methods in Molecular Biology</i> , 2009 , 504, 255-74	1.4	7
23	Electrodeposited, Transverse Nanowire Electroluminescent Junctions. <i>ACS Nano</i> , 2016 , 10, 8233-42	16.7	7
22	Laser annealing of nanocrystalline gold nanowires. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6808-14	14	6
21	Electrodeposited Light-Emitting Nanojunctions. <i>Chemistry of Materials</i> , 2013 , 25, 623-631	9.6	5
20	Applications of Scanning Tunneling Microscopy to Electrochemistry. <i>ACS Symposium Series</i> , 1988 , 174-204	14	5
19	A 30 μm Coaxial Nanowire Photoconductor Enabling Orthogonal Carrier Collection. <i>Nano Letters</i> , 2015 , 15, 5861-7	11.5	4
18	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
17	Measurement of the Localized Viscosity of Molecular Assemblies Using Nanoscopic Defects Induced with the Scanning Tunneling Microscope. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 2663-2667		3
16	Investigating the Degradation of Nb ₂ O ₅ Thin Films Across 10,000 Lithiation/Delithiation Cycles. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6542-6552	6.1	3
15	Coherent anti-Stokes generation from single nanostructures 2009 ,		2
14	Electrodeposition of portable, metal nanowire arrays 2002 , 4807, 83		2
13	Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite. <i>Analytica Chimica Acta</i> , 1995 , 307, 377-391	6.6	2
12	Rational design approaches of two-dimensional metal oxides for chemiresistive gas sensors: A comprehensive review. <i>MRS Bulletin</i> , 2021 , 46, 1080-1094	3.2	2
11	Rapid, Wet Chemical Fabrication of Radial Junction Electroluminescent Wires. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35344-35353	9.5	2
10	Biosensing with Virus Electrode Hybrids. <i>Current Protocols in Chemical Biology</i> , 2015 , 7, 53-72	1.8	2
9	Electrochemical Investigation of Electronically Conductive Polymers 1989 , 119-139		2
8	Supercharging a MnO Nanowire: An Amine-Altered Morphology Retains Capacity at High Rates and Mass Loadings. <i>Langmuir</i> , 2017 , 33, 9324-9332	4	1
7	Electrochemical Step Edge Decoration (ESED): A Versatile Tool for the Nanofabrication of Wires. <i>Modern Aspects of Electrochemistry</i> , 2009 , 175-206		1

6	ELECTRODEPOSITION OF NANOSTRUCTURES AND MICROSTRUCTURES ON HIGHLY ORIENTED PYROLYTIC GRAPHITE (HOPG) 2007 , 661-677		1
5	Electrochemical Deposition of Metal Nano-Disk Structures Using the Scanning Tunneling Microscope 1995 , 183-192		1
4	Viruses Masquerading as Antibodies in Biosensors: The Development of the Virus BioResistor. <i>Accounts of Chemical Research</i> , 2020 , 53, 2384-2394	24.3	1
3	Moving Electrons Purposefully through Single Molecules and Nanostructures: A Tribute to the Science of Professor Nongjian Tao (1963-2020). <i>ACS Nano</i> , 2020 , 14, 12291-12312	16.7	1
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