

# Nosang Myung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

215  
papers

7,766  
citations

47  
h-index

80  
g-index

240  
ext. papers

8,733  
ext. citations

6.3  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
215	Coupling of 3D Porous Hosts for Li Metal Battery Anodes with Viscous Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 010511	3.9	1
214	Piezo-photocatalytic flexible PAN/TiO composite nanofibers for environmental remediation.. <i>Science of the Total Environment</i> , <b>2022</b> , 153790	10.2	2
213	Hierarchically palladium nanoparticles embedded polyethyleneimine-reduced graphene oxide aerogel (RGAEI/Pd) porous electrodes for electrochemical detection of bisphenol a and H2O2. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134250	14.7	0
212	Multiplexed Anodic Stripping Voltammetry Detection of Heavy Metals in Water Using Nanocomposites Modified Screen-Printed Electrodes Integrated With a 3D-Printed Flow Cell.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 815805	5	0
211	Interfacial prediction and tensile damage tracking of carbon fiber reinforced polyamide 66 using Z-axis electrical resistance method. <i>Composites Science and Technology</i> , <b>2022</b> , 223, 109444	8.6	
210	Electrospun organic piezoelectric nanofibers and their energy and bio applications. <i>Nano Energy</i> , <b>2022</b> , 97, 107174	17.1	2
209	Ultralight electrospun fiber foam with tunable lamellar macropores for efficient interfacial evaporation. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107522	6.8	0
208	Near-field electrospinning of polymer/phage whispering gallery mode microfiber resonators for label-free biosensing. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 367, 132062	8.5	1
207	Light-powered soft steam engines for self-adaptive oscillation and biomimetic swimming. <i>Science Robotics</i> , <b>2021</b> , 6, eabi4523	18.6	10
206	Te-Embedded Nanocrystalline PbTe Thick Films: Structure and Thermoelectric Properties Relationship. <i>Coatings</i> , <b>2021</b> , 11, 356	2.9	2
205	Mechano-Responsive Piezoelectric Nanofiber as an On-Demand Drug Delivery Vehicle.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 3706-3715	4.1	7
204	Sandwich-type electrochemical immunosensor for CEA detection using magnetic hollow Ni/C@SiO nanomatrix and boronic acid functionalized CPS@PANI@Au probe. <i>Talanta</i> , <b>2021</b> , 225, 122006	6.2	18
203	Phosphate removal using surface enriched hematite and tetra-n-butylammonium bromide incorporated polyacrylonitrile composite nanofibers. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 145364	10.2	6
202	Formation of 3D Self-Organized Neuron-Glial Interface Derived from Neural Stem Cells via Mechano-Electrical Stimulation. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100806	10.1	4
201	1D Metal Oxide Semiconductor Materials for Chemiresistive Gas Sensors: A Review. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100271	6.4	19
200	Ni-based Plasmonic/Magnetic Nanostructures as Efficient Light Absorbers for Steam Generation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006294	15.6	23
199	Polarization-Modulated Multidirectional Photothermal Actuators. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006367		15

198	Carbon/titanium dioxide (C/TiO <sub>2</sub> ) nanofiber composites for chemical oxidation of emerging organic contaminants in reactive filtration applications. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 711-722	7.1	3
197	Nanoengineering Approaches Toward Artificial Nose. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 629329	5	7
196	Promotion Effect of Modified Ni/C by La <sub>2</sub> O <sub>3</sub> Oxide for Durable Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12508-12513	8.3	6
195	Highly stable potentiometric sensor with reduced graphene oxide aerogel as a solid contact for detection of nitrate and calcium ions. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 897, 115553	4.1	3
194	Magneto- and opto-stimuli responsive nanofibers as a controlled drug delivery system. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
193	Aqueous Electrodeposition of SmCo Alloys: II. Direct Current Studies. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 694726	5	
192	Modulation of piezoelectric properties in electrospun PLLA nanofibers for application-specific self-powered stem cell culture platforms. <i>Nano Energy</i> , <b>2021</b> , 89, 106444	17.1	11
191	Comprehensive Review on Thermoelectric Electrodeposits: Enhancing Thermoelectric Performance Through Nanoengineering.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 762896	5	3
190	Electrochemical Mechanism of Tellurium Reduction in Alkaline Medium. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 84	5	2
189	Inorganic nanofiber as a promising sorbent for lithium recovery. <i>Separation and Purification Technology</i> , <b>2020</b> , 242, 116757	8.3	8
188	Evaluation of Strength Development in Concrete with Ground Granulated Blast Furnace Slag Using Apparent Activation Energy. <i>Materials</i> , <b>2020</b> , 13,	3.5	8
187	Whispering gallery mode emission from dye-doped polymer fiber cross-sections fabricated by near-field electrospinning. <i>Nanoscale</i> , <b>2020</b> , 12, 9873-9883	7.7	10
186	Single-crystalline CoFe nanoparticles encapsulated in N-doped carbon nanotubes as a bifunctional catalyst for water splitting. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 2307-2313	7.8	9
185	Synthesis of gold nanostructures using glycine as the reducing agent. <i>Nanotechnology</i> , <b>2020</b> , 31, 455601	3.4	1
184	Chemiresistive sensor arrays for detection of air pollutants based on carbon nanotubes functionalized with porphyrin and phthalocyanine derivatives. <i>Sensors and Actuators Reports</i> , <b>2020</b> , 2, 100011	4.7	4
183	Plasmon-Enhanced Oxygen Evolution Catalyzed by Fe <sub>2</sub> N-Embedded TiO <sub>x</sub> N <sub>y</sub> Nanoshells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 146-151	6.1	6
182	Galvanic displacement reaction of nickel to form one-dimensional trigonal tellurium structures in acidic solutions. <i>Electrochimica Acta</i> , <b>2020</b> , 330, 135144	6.7	0
181	Template-Free Electrochemical Deposition of t-Se Nano- and Sub-micro Structures With Controlled Morphology and Dimensions. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 785	5	3

180	Janus Evaporators with Self-Recovering Hydrophobicity for Salt-Rejecting Interfacial Solar Desalination. <i>ACS Nano</i> , <b>2020</b> ,	16.7	54
179	L-Arginine-Incorporated Cement Mortar as Sustainable Artificial Reefs. <i>Sustainability</i> , <b>2020</b> , 12, 6346	3.6	3
178	Electrospun hydrogen manganese oxide nanofibers as effective adsorbents for Li <sup>+</sup> recovery from seawater. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 81, 115-123	6.3	16
177	Electrospun Hybrid MoS <sub>2</sub> Nanofibers for High-Efficiency Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 066522	3.9	2
176	Recent Advances in the Direct Electron Transfer-Enabled Enzymatic Fuel Cells. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 620153	5	9
175	Electrospun Cobalt-Doped MoS <sub>2</sub> Nanofibers for Electrocatalytic Hydrogen Evolution. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F996-F999	3.9	7
174	Silver content dependent thermal conductivity and thermoelectric properties of electrodeposited antimony telluride thin films. <i>Scientific Reports</i> , <b>2019</b> , 9, 9242	4.9	7
173	Mesoporous TiO <sub>2</sub> nanospheres loaded with highly dispersed Pd nanoparticles for pH-universal hydrogen evolution reaction. <i>Materials Today Nano</i> , <b>2019</b> , 6, 100038	9.7	14
172	A Method for Optimizing the Design of Heterogeneous Nano Gas Chemiresistor Arrays. <i>Electroanalysis</i> , <b>2019</b> , 31, 1009-1018	3	3
171	Application of Low-Cost, Easy-to-Use, Portable Biosensor Systems for Diagnosing Bladder Dysfunctions. <i>International Neurourology Journal</i> , <b>2019</b> , 23, 86-87	2.6	5
170	Utilization of a magnetic field-driven microscopic motion for piezoelectric energy harvesting. <i>Nanoscale</i> , <b>2019</b> , 11, 20527-20533	7.7	8
169	Performance comparison of hematite (α-FeO)-polymer composite and core-shell nanofibers as point-of-use filtration platforms for metal sequestration. <i>Water Research</i> , <b>2019</b> , 148, 492-503	12.5	23
168	Synthesis of Platinum and Tin Oxide Co-functionalized Single-walled Carbon Nanotubes (Pt/SnO <sub>2</sub> /SWNTs) and their Sensing Properties toward Carbon Monoxide. <i>Electroanalysis</i> , <b>2019</b> , 31, 437-447	3.4	2
167	Surfactant-assisted fabrication of porous polymeric nanofibers with surface-enriched iron oxide nanoparticles: composite filtration materials for removal of metal cations. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 669-681	7.1	15
166	Transformative piezoelectric enhancement of P(VDF-TrFE) synergistically driven by nanoscale dimensional reduction and thermal treatment. <i>Nanoscale</i> , <b>2018</b> , 10, 2894-2901	7.7	19
165	Controlled growth of gold nanocrystals on biogenic As-S nanotubes by galvanic displacement. <i>Nanotechnology</i> , <b>2018</b> , 29, 055604	3.4	1
164	Synthesis and characterization of orthorhombic-MoO <sub>3</sub> nanofibers with controlled morphology and diameter. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 62, 231-238	6.3	11
163	Phase-dependent thermal conductivity of electrodeposited antimony telluride films. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3410-3416	7.1	4

162	Composition- and crystallinity-dependent thermoelectric properties of ternary BixSb2-xTey films. <i>Applied Surface Science</i> , <b>2018</b> , 429, 158-163	6.7	18
161	Minimizing the Diameter of Electrospun Polyacrylonitrile (PAN) Nanofibers by Design of Experiments for Electrochemical Application. <i>Electroanalysis</i> , <b>2018</b> , 30, 2330-2338	3	11
160	Synthesis of Samarium-Cobalt Sub-micron Fibers and Their Excellent Hard Magnetic Properties. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 18	5	16
159	Conducting Polymer Nanowire-Based Bio-Field Effect Transistor for Label-Free Detection <b>2018</b> , 149-164		
158	A noble gas sensor platform: linear dense assemblies of single-walled carbon nanotubes (LACNTs) in a multi-layered ceramic/metal electrode system (MLES). <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 972-979	7.7	21
157	Simple and effective fabrication of Sb2Te3 films embedded with Ag2Te nanoprecipitates for enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 349-356	13	19
156	Synthesis and Thermoelectric Characterization of Lead Telluride Hollow Nanofibers. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 436	5	6
155	Electrodeposition of Compact Tellurium Thick Films from Alkaline Baths. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, D82-D87	3.9	13
154	Synthesis of hierarchical MoO/MoS nanofibers for electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , <b>2017</b> , 28, 105605	3.4	28
153	Physico-electrochemical Characterization of Pluripotent Stem Cells during Self-Renewal or Differentiation by a Multi-modal Monitoring System. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 1329-1339	8	8
152	Facile Control of Interfacial Energy-Barrier Scattering in Antimony Telluride Electrodeposits. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2347-2355	1.9	1
151	Functionalized polymer-iron oxide hybrid nanofibers: Electrospun filtration devices for metal oxyanion removal. <i>Water Research</i> , <b>2017</b> , 117, 207-217	12.5	39
150	One-pot synthesis of gradient interface quaternary ZnCdSSe quantum dots. <i>Applied Surface Science</i> , <b>2017</b> , 415, 19-23	6.7	9
149	Size-Dependent Piezoelectric Properties of Electrospun BaTiO3 for Enhanced Energy Harvesting. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1700091	5.9	15
148	Morphological Evolution of Te and Bi2Te3 Microstructures during Galvanic Displacement of Electrodeposited Co Thin Films. <i>Electrochimica Acta</i> , <b>2017</b> , 255, 1-8	6.7	2
147	DNA-guided assembly of a five-component enzyme cascade for enhanced conversion of cellulose to gluconic acid and HO. <i>Journal of Biotechnology</i> , <b>2017</b> , 263, 30-35	3.7	8
146	Synthesis and thermoelectric characterization of bulk-type tellurium nanowire/polymer nanocomposites. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 12724-12733	4.3	4
145	Template-Directed Electrodeposition of Iron-Palladium Nanowires and Their Electrical Transport and Sensing Properties. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, D1045-D1050	3.9	1

144	Mesoporous $\gamma$ -Alumina/Hematite ( $\gamma$ -Al <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> ) Composite Nanofibers for Heavy Metal Removal. <i>Science of Advanced Materials</i> , <b>2017</b> , 9, 22-29	2.3	3
143	Viral-templated gold/polypyrrole nanopeapods for an ammonia gas sensor. <i>Nanotechnology</i> , <b>2016</b> , 27, 325502	3.4	18
142	Synthesis of gold structures by gold-binding peptide governed by concentration of gold ion and peptide. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2016</b> , 80, 1478-83	2.1	3
141	Size-dependent piezoelectric and mechanical properties of electrospun P(VDF-TrFE) nanofibers for enhanced energy harvesting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2293-2304	13	92
140	Optimization of Thermoelectric Properties of p-type AgSbTe <sub>2</sub> Thin Films via Electrochemical Synthesis. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 579-586	6.7	11
139	Synthesis and optimization of Fe <sub>3</sub> O <sub>4</sub> nanofibers for chromate adsorption from contaminated water sources. <i>Chemosphere</i> , <b>2016</b> , 144, 975-81	8.4	53
138	Electrodeposition of Dense Lead Telluride Thick Films in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D801-D808	3.9	6
137	Synthesis, Optimization, and Performance Demonstration of Electrospun Carbon Nanofiber-Carbon Nanotube Composite Sorbents for Point-of-Use Water Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11431-40	9.5	45
136	Electrospun hematite nanofiber/mesoporous silica core/shell nanomaterials as an efficient adsorbent for heavy metals. <i>RSC Advances</i> , <b>2016</b> , 6, 90516-90525	3.7	14
135	Tailored synthesis of photoactive TiO <sub>2</sub> nanofibers and Au/TiO <sub>2</sub> nanofiber composites: structure and reactivity optimization for water treatment applications. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1654-63	10.3	82
134	Simple electrochemical synthesis of ultra-long silver telluride nanotubes. <i>RSC Advances</i> , <b>2015</b> , 5, 29782-29785	9.7	11
133	Thermoelectric Properties of Ultralong Silver Telluride Hollow Nanofibers. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5189-5197	9.6	31
132	Maximizing thermoelectric properties by nano-inclusion of Sb <sub>2</sub> Te <sub>3</sub> in Sb <sub>2</sub> Te <sub>3</sub> film via solid-state phase transition from amorphous Sb <sub>2</sub> Te <sub>3</sub> electrodeposits. <i>Nano Energy</i> , <b>2015</b> , 13, 727-734	17.1	32
131	Synthesis and optimization of BiVO <sub>4</sub> and co-catalyzed BiVO <sub>4</sub> nanofibers for visible light-activated photocatalytic degradation of aquatic micropollutants. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 404-405, 18-26		27
130	Thermochemical hydrogen sensor based on chalcogenide nanowire arrays. <i>Nanotechnology</i> , <b>2015</b> , 26, 145503	3.4	20
129	Optimizing thermoelectric property of antimony telluride nanowires by tailoring composition and crystallinity. <i>Materials Research Express</i> , <b>2015</b> , 2, 085006	1.7	4
128	Size Controlled Synthesis of Tellurium Nanorices by Galvanic Displacement Reaction of Aluminum. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 1382-1392	6.7	10
127	Composition-dependent sensing mechanism of electrospun conductive polymer composite nanofibers. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 235-242	8.5	38

126	One-dimensional nanostructures based bio-detection. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 63, 432-443	11.8	35
125	Synthesis and optimization of Ag-TiO <sub>2</sub> composite nanofibers for photocatalytic treatment of impaired water sources. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 299, 141-8	12.8	40
124	Highly sensitive hydrogen sulfide (HS) gas sensors from viral-templated nanocrystalline gold nanowires. <i>Nanotechnology</i> , <b>2014</b> , 25, 135205	3.4	32
123	Polyaniline/poly(E-caprolactone) composite electrospun nanofiber-based gas sensors: optimization of sensing properties by dopants and doping concentration. <i>Nanotechnology</i> , <b>2014</b> , 25, 115501	3.4	31
122	Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. <i>Talanta</i> , <b>2014</b> , 123, 109-14	6.2	58
121	Tin Dioxide Functionalized Single-Walled Carbon Nanotube (SnO <sub>2</sub> /SWNT)-Based Ammonia Gas Sensors and Their Sensing Mechanism. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, B283-B290	3.9	14
120	Three-dimensional hierarchical Te-Si nanostructures. <i>Nanoscale</i> , <b>2014</b> , 6, 11697-702	7.7	5
119	Palladium/single-walled carbon nanotube back-to-back Schottky contact-based hydrogen sensors and their sensing mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 319-26	9.5	39
118	Fabrication and sensing property for conducting polymer nanowire-based biosensor for detection of immunoglobulin G. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 2565-2570	2.8	6
117	Galvanically Displaced Ultralong Pb <sub>x</sub> SeyNiz Hollow Nanofibers with High Thermopower. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2557-2566	9.6	7
116	Electrospun Polyaniline/Poly(ethylene oxide) Composite Nanofibers Based Gas Sensor. <i>Electroanalysis</i> , <b>2014</b> , 26, 711-722	3	40
115	Effect of calcination temperature on the photocatalytic properties of electrospun TiO <sub>2</sub> nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 8005-9	1.3	7
114	Chemiresistive hydrogen gas sensors from gold-palladium nanopeapods. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 223102	3.4	12
113	Synthesis of Tellurium Heterostructures by Galvanic Displacement Reaction of Zinc in Alkaline Baths. <i>Electrochimica Acta</i> , <b>2014</b> , 150, 298-307	6.7	11
112	Synthesis of PbTe and PbTe/Te Nanostructures by Galvanic Displacement of Cobalt Thin Films. <i>Electrochimica Acta</i> , <b>2014</b> , 138, 334-340	6.7	4
111	Bamboo-like Te Nanotubes with Tailored Dimensions Synthesized from Segmental NiFe Nanowires as Sacrificial Templates. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 3227-3231	1.2	1
110	Enhanced electrical and mechanical properties of silver nanoplatelet-based conductive features direct printed on a flexible substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5908-13	9.5	34
109	Thermoelectric characteristics of Sb <sub>2</sub> Te <sub>3</sub> thin films formed via surfactant-assisted electrodeposition. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5430	13	47

108	Morphology change of galvanically displaced one-dimensional tellurium nanostructures via controlling the microstructure of sacrificial Ni thin films. <i>Electrochimica Acta</i> , <b>2013</b> , 106, 447-452	6.7	8
107	Template-free synthesis of vertically oriented tellurium nanowires via a galvanic displacement reaction. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 200-205	6.7	10
106	Fabrication of DNA-templated Te and Bi <sub>2</sub> Te <sub>3</sub> nanowires by galvanic displacement. <i>Langmuir</i> , <b>2013</b> , 29, 11176-84	4	34
105	Polypyrrole nanoribbon based chemiresistive immunosensors for viral plant pathogen detection. <i>Analytical Methods</i> , <b>2013</b> , 5, 3497	3.2	46
104	Electrochemical synthesis of CdTe/SWNT hybrid nanostructures and their tunable electrical and optoelectrical properties. <i>Nanoscale</i> , <b>2013</b> , 5, 1616-23	7.7	7
103	Electrodeposition of Bi <sub>x</sub> Te <sub>y</sub> thin films for thermoelectric application. <i>Thin Solid Films</i> , <b>2013</b> , 546, 48-52	2.2	8
102	Metal nanoparticles and DNA co-functionalized single-walled carbon nanotube gas sensors. <i>Nanotechnology</i> , <b>2013</b> , 24, 505502	3.4	28
101	Tapered BiTe nanowires synthesis by galvanic displacement reaction of compositionally modulated NiFe nanowires. <i>Electrochimica Acta</i> , <b>2013</b> , 90, 582-588	6.7	7
100	Hybridized conducting polymer chemiresistive nano-sensors. <i>Nano Today</i> , <b>2013</b> , 8, 39-55	17.9	110
99	Branched tellurium hollow nanofibers by galvanic displacement reaction and their sensing performance toward nitrogen dioxide. <i>Nanoscale</i> , <b>2013</b> , 5, 3058-62	7.7	33
98	Inkjet printed transparent conductive films using water-dispersible single-walled carbon nanotubes treated by UV/ozone irradiation. <i>Thin Solid Films</i> , <b>2013</b> , 536, 160-165	2.2	24
97	Hybrid tin oxide-SWNT nanostructures based gas sensor. <i>Electrochimica Acta</i> , <b>2013</b> , 92, 484-490	6.7	53
96	Lithographically Patterned p-Type Sb <sub>x</sub> Te <sub>y</sub> Nanoribbons with Controlled Morphologies and Dimensions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17303-17308	3.8	4
95	Electrical/thermoelectric characterization of electrodeposited Bi <sub>x</sub> Sb <sub>2-x</sub> Te <sub>3</sub> thin films. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 687-691	2.9	5
94	Diameter and composition modulated bismuth telluride nanowires by galvanic displacement reaction of segmented NiFe nanowires. <i>Electrochimica Acta</i> , <b>2012</b> , 75, 201-207	6.7	9
93	Electronic-nose for detecting environmental pollutants: signal processing and analog front-end design. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2012</b> , 70, 15-32	1.2	16
92	Synthesis of nanoparticles with frog foam nest proteins. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	5
91	Tuning Electrical and Optoelectronic Properties of Single Cadmium Telluride Nanoribbon. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9202-9208	3.8	15



90	A Rapid Room-Temperature NO <sub>2</sub> Sensor Based on Tellurium/SWNT Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20067-20074	3.8	43
89	Synthesis and thermoelectric/electrical characterization of electrodeposited Sb <sub>x</sub> Te <sub>y</sub> thin films. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2748-2751	5.1	8
88	Structural evolution of Ag/Au nanoplates by pH controlled galvanic displacement. <i>Current Applied Physics</i> , <b>2012</b> , 12, S53-S58	2.6	5
87	Porphyryns-Functionalized Single-Walled Carbon Nanotubes Chemiresistive Sensor Arrays for VOCs. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3845-3850	3.8	104
86	Hybrid ZnO/SWNT Nanostructures Based Gas Sensor. <i>Electroanalysis</i> , <b>2012</b> , 24, 1613-1620	3	17
85	Synthesis of macro-mesoporous Pt/alumina catalyst to enhance catalytic activity of hydrogen oxidation. <i>Electronic Materials Letters</i> , <b>2012</b> , 8, 225-230	2.9	3
84	Invited paper: Composition-dependent electrical properties of ternary Ag <sub>x</sub> Sb <sub>1-x</sub> Te <sub>y</sub> thin films synthesized by cationic exchange reaction. <i>Electronic Materials Letters</i> , <b>2012</b> , 8, 219-224	2.9	1
83	Programmable synthesis of shape-, structure-, and composition-modulated one-dimensional heterostructures by galvanic displacement reaction. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 223105	3.4	10
82	Single-walled carbon nanotubes based chemicapacitive sensors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 1517-20	1.3	2
81	Sensitive Detection of Elemental Mercury Vapor by Gold Nanoparticle Decorated Carbon Nanotube Sensors. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13927-13931	3.8	55
80	Tunable synthesis of cuprous and cupric oxide nanotubes from electrodeposited copper nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 1455-8	1.3	11
79	Electrodeposition of p-Type Sb <sub>x</sub> Te <sub>y</sub> Thermoelectric Films. <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 1321-1325	1.9	16
78	Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependant Label-free DNA Sensor. <i>Electroanalysis</i> , <b>2011</b> , 23, 371-379	3	36
77	Selective and Rapid Room Temperature Detection of H <sub>2</sub> S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , <b>2011</b> , 23, 2623-2628	3	32
76	Gas Sensing Mechanism of Gold Nanoparticles Decorated Single-Walled Carbon Nanotubes. <i>Electroanalysis</i> , <b>2011</b> , 23, 2687-2692	3	39
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74	Synthesis of chalcogenide ternary and quaternary nanotubes through directed compositional alterations of bacterial As <sub>2</sub> S <sub>3</sub> nanotubes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10277		7
73	Synthesis of ultra-long hollow chalcogenide nanofibers. <i>Chemical Communications</i> , <b>2011</b> , 47, 9107-9	5.8	26

72	Electrodeposited Single Crystalline PbTe Nanowires and Their Transport Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 2993-2998	3.8	18
71	Label-free, chemiresistor immunosensor for stress biomarker cortisol in saliva. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4382-6	11.8	74
70	Conducting polymer nanowires-based label-free biosensors. <i>Current Opinion in Biotechnology</i> , <b>2011</b> , 22, 502-8	11.4	62
69	Synthesis and magneto-transport properties of single PEDOT/Ni and PEDOT/Ni <sub>30</sub> Fe <sub>70</sub> core/shell nanowires. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5561-5565	6.7	2
68	Electrodeposition of antimony telluride thin films from acidic nitrate-tartrate baths. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5611-5615	6.7	32
67	Effect of UV/ozone treatment on interactions between ink-jet printed Cu patterns and polyimide substrates. <i>Thin Solid Films</i> , <b>2011</b> , 519, 6853-6857	2.2	12
66	Growth factors for silver nanoplates formed in a simple solvothermal process. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 3393-6	1.3	9
65	Enzyme mediated synthesis of phytochelatin-capped CdS nanocrystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 123703	3.4	11
64	Conducting polymer nanowires for chemiresistive and FET-based bio/chemical sensors. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3131		122
63	Electrical and gas sensing properties of polyaniline functionalized single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2010</b> , 21, 75502	3.4	52
62	Nano aptasensor for protective antigen toxin of anthrax. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2042-7	7.8	87
61	Sensitive detection of H <sub>2</sub> S using gold nanoparticle decorated single-walled carbon nanotubes. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 250-7	7.8	155
60	Wafer-Scale Fabrication of Single Polypyrrole Nanoribbon-Based Ammonia Sensor. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11103-11108	3.8	60
59	Synthesis of Sn doped CuO nanotubes from core-shell Cu/SnO(2) nanowires by the Kirkendall effect. <i>Nanotechnology</i> , <b>2010</b> , 21, 295601	3.4	17
58	Single-walled carbon nanotube-based chemiresistive affinity biosensors for small molecules: ultrasensitive glucose detection. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5024-6	16.4	136
57	Effect of (L:D) Aspect Ratio on Single Polypyrrole Nanowire FET Device. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13375-13380	3.8	35
56	Peptide directed synthesis of silica coated gold nanocables. <i>Chemical Communications</i> , <b>2010</b> , 46, 4366-8	5.8	11
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54	Ultra-long bismuth telluride nanoribbons synthesis by lithographically patterned galvanic displacement. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9982		22
53	Single-walled carbon nanotube chemoresistive label-free immunosensor for salivary stress biomarkers. <i>Analyst, The</i> , <b>2010</b> , 135, 2637-42	5	41
52	Galvanic displacement of BiTe thin films from sacrificial iron group thin films. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1072-1080	6.7	15
51	Carbon nanotubes-based chemiresistive immunosensor for small molecules: detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1297-301	11.8	64
50	Nanopeapods by Galvanic Displacement Reaction. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7235-7239	3.6	9
49	Nanopeapods by galvanic displacement reaction. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7081-5	16.4	33
48	Investigation of shape controlled silver nanoplates by a solvothermal process. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 342, 8-17	9.3	23
47	Bi and Te thin films synthesized by galvanic displacement from acidic nitric baths. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 743-752	6.7	17
46	Synthesis of tellurium nanotubes by galvanic displacement. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2472-2476	6.7	28
45	Conducting polymer 1-dimensional nanostructures for FET sensors. <i>Thin Solid Films</i> , <b>2010</b> , 519, 964-973	2.2	35
44	Peptide-mediated shape- and size-tunable synthesis of gold nanostructures. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2681-9	10.8	106
43	A gas nanosensor unaffected by humidity. <i>Nanotechnology</i> , <b>2009</b> , 20, 255501	3.4	40
42	As(V) remediation using electrochemically synthesized maghemite nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 1981-1989	2.3	45
41	Silicon Solar Cell with Nanoporous Structure Formed on a Textured Surface. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2415-2417	3.8	22
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38	Biogenic formation of As-S nanotubes by diverse Shewanella strains. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6896-9	4.8	46
37	Transport of iron-based nanoparticles: role of magnetic properties. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8834-9	10.3	71

36	Size-controlled electrochemical synthesis and properties of SnO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , <b>2009</b> , 20, 185602	3.4	68
35	A real-time monitoring system for diesel and gasoline exhaust exposure <b>2009</b> ,		2
34	Single conducting polymer nanowire chemiresistive label-free immunosensor for cancer biomarker. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2168-75	7.8	140
33	Site-Specific Magnetic Assembly of Nanowires for Sensor Arrays Fabrication. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 251-255	2.6	14
32	Synthesis and characterization of cadmium telluride nanowire. <i>Nanotechnology</i> , <b>2008</b> , 19, 325711	3.4	47
31	In-situ TEM observation of repeating events of nucleation in epitaxial growth of nano CoSi <sub>2</sub> in nanowires of Si. <i>Nano Letters</i> , <b>2008</b> , 8, 2194-9	11.5	85
30	Fabrication of nanoelectrodes and nanojunction hydrogen sensor. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 1331-1314	3.4	11
29	Microbial synthesis of CdS nanocrystals in genetically engineered E. coli. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5186-9	16.4	98
28	Recent progress in electrodeposition of thermoelectric thin films and nanostructures. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 8103-8117	6.7	213
27	Recent progress in carbon nanotube-based gas sensors. <i>Nanotechnology</i> , <b>2008</b> , 19, 332001	3.4	482
26	Synthesis of Bi <sub>2</sub> Te <sub>3</sub> nanotubes by galvanic displacement. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10068-9	16.4	98
25	Electrodeposition of Single-Crystal Cubes of Lead Telluride on Polycrystalline Gold Substrate. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11397-11402	3.8	20
24	Hierarchical magnetic assembly of nanowires. <i>Nanotechnology</i> , <b>2007</b> , 18, 205305	3.4	63
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20	Electrochemical synthesis of compositionally modulated NiFe nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 4021-4024	1.6	9
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15	Palladium Nanoparticles Decorated Single-Walled Carbon Nanotube Hydrogen Sensor. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6321-6327	3.8	328
14	Magnetically assembled 30 nm diameter nickel nanowire with ferromagnetic electrodes. <i>Nanotechnology</i> , <b>2006</b> , 17, 2512-7	3.4	52
13	Controlled assembly of multi-segment nanowires by histidine-tagged peptides. <i>Nanotechnology</i> , <b>2006</b> , 17, 3375-9	3.4	21
12	Investigation of a single Pd nanowire for use as a hydrogen sensor. <i>Small</i> , <b>2006</b> , 2, 356-8	11	143
11	Electrodeposition of PbTe thin films from acidic nitrate baths. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1101-1107	6.7	59
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9	Bioaffinity sensing using biologically functionalized conducting-polymer nanowire. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 496-7	16.4	357
8	Magnetic Alignment of Nanowires. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1320-1324	9.6	147
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