

# Nosang Myung

## List of Publications by Year in descending order

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Version: 2024-02-01

237  
papers

9,832  
citations

34016

52  
h-index

46693

89  
g-index

240  
all docs

240  
docs citations

240  
times ranked

11745  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Recent progress in carbon nanotube-based gas sensors. <i>Nanotechnology</i> , 2008, 19, 332001.   | 1.3 | 559       |
| 2  | Bioaffinity Sensing Using Biologically Functionalized Conducting-Polymer Nanowire. <i>Journal of the American Chemical Society</i> , 2005, 127, 496-497.  | 6.6 | 385       |
| 3  | Palladium Nanoparticles Decorated Single-Walled Carbon Nanotube Hydrogen Sensor. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6321-6327.   | 1.5 | 373       |
| 4  | Electrochemically Grown Wires for Individually Addressable Sensor Arrays. <i>Nano Letters</i> , 2004, 4, 419-422.   | 4.5 | 272       |
| 5  | Recent progress in electrodeposition of thermoelectric thin films and nanostructures. <i>Electrochimica Acta</i> , 2008, 53, 8103-8117.   | 2.6 | 236       |
| 6  | Individually Addressable Conducting Polymer Nanowires Array. <i>Nano Letters</i> , 2004, 4, 1237-1239.  | 4.5 | 227       |
| 7  | Development of electroplated magnetic materials for MEMS. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 265, 189-198.  | 1.0 | 194       |
| 8  | Polyaniline nanowires-gold nanoparticles hybrid network based chemiresistive hydrogen sulfide sensor. <i>Applied Physics Letters</i> , 2009, 94, .  | 1.5 | 181       |
| 9  | Sensitive Detection of H <sub>2</sub> S Using Gold Nanoparticle Decorated Single-Walled Carbon Nanotubes. <i>Analytical Chemistry</i> , 2010, 82, 250-257.  | 3.2 | 180       |
| 10 | Single Conducting Polymer Nanowire Chemiresistive Label-Free Immunosensor for Cancer Biomarker. <i>Analytical Chemistry</i> , 2009, 81, 2168-2175.  | 3.2 | 165       |
| 11 | Investigation of a Single Pd Nanowire for Use as a Hydrogen Sensor. <i>Small</i> , 2006, 2, 356-358.  | 5.2 | 164       |
| 12 | Magnetic Alignment of Nanowires. <i>Chemistry of Materials</i> , 2005, 17, 1320-1324.   | 3.2 | 160       |
| 13 | Janus Evaporators with Self-Recovering Hydrophobicity for Salt-Rejecting Interfacial Solar Desalination. <i>ACS Nano</i> , 2020, 14, 17419-17427.   | 7.3 | 150       |
| 14 | Single-Walled Carbon Nanotube-Based Chemiresistive Affinity Biosensors for Small Molecules: Ultrasensitive Glucose Detection. <i>Journal of the American Chemical Society</i> , 2010, 132, 5024-5026.               | 6.6 | 149       |
| 15 | Hybridized conducting polymer chemiresistive nano-sensors. <i>Nano Today</i> , 2013, 8, 39-55.  | 6.2 | 142       |
| 16 | Conducting polymer nanowires for chemiresistive and FET-based bio/chemical sensors. <i>Journal of Materials Chemistry</i> , 2010, 20, 3131.   | 6.7 | 138       |
| 17 | Size-dependent piezoelectric and mechanical properties of electrospun P(VDF-TrFE) nanofibers for enhanced energy harvesting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2293-2304.                          | 5.2 | 136       |
| 18 | Biogenic formation of photoactive arsenic-sulfide nanotubes by <i>Shewanella</i> sp. strain HN-41. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20410-20415. | 3.3 | 127       |

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|----|--|-----|-----------|
| 19 | Microbial Synthesis of CdS Nanocrystals in Genetically Engineered <i>E. coli</i> . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5186-5189.   | 7.2 | 125       |
| 20 | Porphyrin-Functionalized Single-Walled Carbon Nanotube Chemiresistive Sensor Arrays for VOCs. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3845-3850.   | 1.5 | 125       |
| 21 | Peptide-mediated shape- and size-tunable synthesis of gold nanostructures. <i>Acta Biomaterialia</i> , 2010, 6, 2681-2689.   | 4.1 | 118       |
| 22 | Poly(m-aminobenzene sulfonic acid) functionalized single-walled carbon nanotubes based gas sensor. <i>Nanotechnology</i> , 2007, 18, 165504.   | 1.3 | 116       |
| 23 | Synthesis of Bi <sub>2</sub> Te <sub>3</sub> Nanotubes by Galvanic Displacement. <i>Journal of the American Chemical Society</i> , 2007, 129, 10068-10069.   | 6.6 | 109       |
| 24 | 1D Metal Oxide Semiconductor Materials for Chemiresistive Gas Sensors: A Review. <i>Advanced Electronic Materials</i> , 2021, 7, 2100271.  | 2.6 | 101       |
| 25 | 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> , 2015, 49, 1654-1663. | 4.6 | 98        |
| 26 | Nano Aptasensor for Protective Antigen Toxin of Anthrax. <i>Analytical Chemistry</i> , 2010, 82, 2042-2047.  | 3.2 | 95        |
| 27 | 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> , 2008, 8, 2194-2199.  | 4.5 | 94        |
| 28 | Label-free, chemiresistor immunosensor for stress biomarker cortisol in saliva. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4382-4386.  | 5.3 | 94        |
| 29 | Transport of Iron-Based Nanoparticles: Role of Magnetic Properties. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8834-8839.   | 4.6 | 82        |
| 30 | Light-powered soft steam engines for self-adaptive oscillation and biomimetic swimming. <i>Science Robotics</i> , 2021, 6, eabi4523.   | 9.9 | 81        |
| 31 | Size-controlled electrochemical synthesis and properties of SnO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , 2009, 20, 185602.  | 1.3 | 79        |
| 32 | Hierarchical magnetic assembly of nanowires. <i>Nanotechnology</i> , 2007, 18, 205305.   | 1.3 | 77        |
| 33 | Field-Effect Transistors Based on Single Nanowires of Conducting Polymers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5218-5221.  | 1.5 | 77        |
| 34 | Carbon nanotubes-based chemiresistive immunosensor for small molecules: Detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1297-1301.   | 5.3 | 76        |
| 35 | A Nanochannel Fabrication Technique without Nanolithography. <i>Nano Letters</i> , 2003, 3, 1339-1340.   | 4.5 | 75        |
| 36 | Wafer-Scale Fabrication of Single Polypyrrole Nanoribbon-Based Ammonia Sensor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11103-11108.  | 1.5 | 74        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Ni-based Plasmonic/Magnetic Nanostructures as Efficient Light Absorbers for Steam Generation. <i>Advanced Functional Materials</i> , 2021, 31, 2006294.   | 7.8 | 72        |
| 38 | Conducting polymer nanowires-based label-free biosensors. <i>Current Opinion in Biotechnology</i> , 2011, 22, 502-508.  | 3.3 | 71        |
| 39 | Preparation of Biotic and Abiotic Iron Oxide Nanoparticles (IONPs) and Their Properties and Applications in Heterogeneous Catalytic Oxidation. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4741-4747.               | 4.6 | 69        |
| 40 | Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. <i>Talanta</i> , 2014, 123, 109-114.   | 2.9 | 65        |
| 41 | Synthesis and optimization of Fe <sub>2</sub> O <sub>3</sub> nanofibers for chromate adsorption from contaminated water sources. <i>Chemosphere</i> , 2016, 144, 975-981.   | 4.2 | 65        |
| 42 | Electrodeposition of PbTe thin films from acidic nitrate baths. <i>Electrochimica Acta</i> , 2006, 52, 1101-1107.   | 2.6 | 64        |
| 43 | Polypyrrole nanoribbon based chemiresistive immunosensors for viral plant pathogen detection. <i>Analytical Methods</i> , 2013, 5, 3497.  | 1.3 | 62        |
| 44 | Magnetically assembled 30 nm diameter nickel nanowire with ferromagnetic electrodes. <i>Nanotechnology</i> , 2006, 17, 2512-2517.   | 1.3 | 61        |
| 45 | Biomolecules-carbon nanotubes doped conducting polymer nanocomposites and their sensor application. <i>Talanta</i> , 2007, 74, 370-375.   | 2.9 | 60        |
| 46 | 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> , 2018, 6, 972-979.             | 2.7 | 60        |
| 47 | Sensitive Detection of Elemental Mercury Vapor by Gold-Nanoparticle-Decorated Carbon Nanotube Sensors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13927-13931.   | 1.5 | 59        |
| 48 | Biogenic Formation of As-S Nanotubes by Diverse <i>Shewanella</i> Strains. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6896-6899.   | 1.4 | 58        |
| 49 | Electrical and gas sensing properties of polyaniline functionalized single-walled carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 075502.   | 1.3 | 57        |
| 50 | Hybrid tin oxide-SWNT nanostructures based gas sensor. <i>Electrochimica Acta</i> , 2013, 92, 484-490.  | 2.6 | 57        |
| 51 | Point contact reactions between Ni and Si nanowires and reactive epitaxial growth of axial nano-NiSi <sub>2</sub> . <i>Applied Physics Letters</i> , 2007, 90, 253111.  | 1.5 | 56        |
| 52 | Modulation of piezoelectric properties in electrospun PLLA nanofibers for application-specific self-powered stem cell culture platforms. <i>Nano Energy</i> , 2021, 89, 106444.   | 8.2 | 55        |
| 53 | As(V) remediation using electrochemically synthesized maghemite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1981-1989.   | 0.8 | 54        |
| 54 | 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> , 2016, 8, 11431-11440. | 4.0 | 54        |

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|----|--|-----|-----------|
| 55 | Synthesis and characterization of cadmium telluride nanowire. <i>Nanotechnology</i> , 2008, 19, 325711.  | 1.3 | 52        |
| 56 | A Rapid Room-Temperature NO <sub>2</sub> Sensor Based on Tellurium@SWNT Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20067-20074.  | 1.5 | 51        |
| 57 | Palladium/Single-Walled Carbon Nanotube Back-to-Back Schottky Contact-Based Hydrogen Sensors and Their Sensing Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 319-326.                                  | 4.0 | 51        |
| 58 | Electrospun Polyaniline/Poly(ethylene oxide) Composite Nanofibers Based Gas Sensor. <i>Electroanalysis</i> , 2014, 26, 711-722.  | 1.5 | 51        |
| 59 | Synthesis and optimization of Ag@TiO <sub>2</sub> composite nanofibers for photocatalytic treatment of impaired water sources. <i>Journal of Hazardous Materials</i> , 2015, 299, 141-148.                                   | 6.5 | 51        |
| 60 | Sandwich-type electrochemical immunosensor for CEA detection using magnetic hollow Ni/C@SiO <sub>2</sub> nanomatrix and boronic acid functionalized CPS@PANI@Au probe. <i>Talanta</i> , 2021, 225, 122006.                   | 2.9 | 51        |
| 61 | Functionalized polymer-iron oxide hybrid nanofibers: Electrospun filtration devices for metal oxyanion removal. <i>Water Research</i> , 2017, 117, 207-217.  | 5.3 | 50        |
| 62 | 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> , 2013, 1, 5430.                                      | 5.2 | 49        |
| 63 | Single-walled carbon nanotube chemoresistive label-free immunosensor for salivary stress biomarkers. <i>Analyst</i> , 2010, 135, 2637.   | 1.7 | 47        |
| 64 | Composition-dependent sensing mechanism of electrospun conductive polymer composite nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 235-242.   | 4.0 | 46        |
| 65 | Enhanced Electrical and Mechanical Properties of Silver Nanoplatelet-Based Conductive Features Direct Printed on a Flexible Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5908-5913.                   | 4.0 | 45        |
| 66 | A gas nanosensor unaffected by humidity. <i>Nanotechnology</i> , 2009, 20, 255501.   | 1.3 | 44        |
| 67 | Label-Free Chemiresistive Immunosensors for Viruses. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9030-9035.  | 4.6 | 44        |
| 68 | Gas Sensing Mechanism of Gold Nanoparticles Decorated Single-Walled Carbon Nanotubes. <i>Electroanalysis</i> , 2011, 23, 2687-2692.  | 1.5 | 43        |
| 69 | One-dimensional nanostructures based bio-detection. <i>Biosensors and Bioelectronics</i> , 2015, 63, 432-443.  | 5.3 | 43        |
| 70 | Performance comparison of hematite (̄-Fe <sub>2</sub> O <sub>3</sub> )-polymer composite and core-shell nanofibers as point-of-use filtration platforms for metal sequestration. <i>Water Research</i> , 2019, 148, 492-503. | 5.3 | 41        |
| 71 | Conducting polymer 1-dimensional nanostructures for FET sensors. <i>Thin Solid Films</i> , 2010, 519, 964-973.   | 0.8 | 40        |
| 72 | Effect of Aspect Ratio (Length:Diameter) on a Single Polypyrrole Nanowire FET Device. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13375-13380.   | 1.5 | 40        |

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|----|---|------|-----------|
| 73 | Electrodeposition of antimony telluride thin films from acidic nitrate-tartrate baths. <i>Electrochimica Acta</i> , 2011, 56, 5611-5615.  | 2.6  | 39        |
| 74 | Maximizing thermoelectric properties by nanoinclusion of $\delta$ -SbTe in Sb <sub>2</sub> Te <sub>3</sub> film via solid-state phase transition from amorphous Sb <sub>2</sub> Te electrodeposits. <i>Nano Energy</i> , 2015, 13, 727-734. | 8.2  | 39        |
| 75 | Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependant Label-free DNA Sensor. <i>Electroanalysis</i> , 2011, 23, 371-379.   | 1.5  | 38        |
| 76 | Branched tellurium hollow nanofibers by galvanic displacement reaction and their sensing performance toward nitrogen dioxide. <i>Nanoscale</i> , 2013, 5, 3058.   | 2.8  | 38        |
| 77 | Highly sensitive hydrogen sulfide (H <sub>2</sub> S) gas sensors from viral-templated nanocrystalline gold nanowires. <i>Nanotechnology</i> , 2014, 25, 135205.   | 1.3  | 38        |
| 78 | Thermoelectric Properties of Ultralong Silver Telluride Hollow Nanofibers. <i>Chemistry of Materials</i> , 2015, 27, 5189-5197.   | 3.2  | 38        |
| 79 | Fabrication of DNA-Templated Te and Bi <sub>2</sub> Te <sub>3</sub> Nanowires by Galvanic Displacement. <i>Langmuir</i> , 2013, 29, 11176-11184.  | 1.6  | 37        |
| 80 | Polyaniline/poly( $\epsilon$ -caprolactone) composite electrospun nanofiber-based gas sensors: optimization of sensing properties by dopants and doping concentration. <i>Nanotechnology</i> , 2014, 25, 115501.                            | 1.3  | 37        |
| 81 | Nanopeapods by Galvanic Displacement Reaction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7081-7085.  | 7.2  | 35        |
| 82 | Polarization-Modulated Multidirectional Photothermal Actuators. <i>Advanced Materials</i> , 2021, 33, e2006367.   | 11.1 | 35        |
| 83 | Electrospun organic piezoelectric nanofibers and their energy and bio applications. <i>Nano Energy</i> , 2022, 97, 107174.  | 8.2  | 34        |
| 84 | Label-free detection of cupric ions and histidine-tagged proteins using single poly(pyrrole)-NTA chelator conducting polymer nanotube chemiresistive sensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1451-1455.                    | 5.3  | 33        |
| 85 | Synthesis of tellurium nanotubes by galvanic displacement. <i>Electrochimica Acta</i> , 2010, 55, 2472-2476.  | 2.6  | 33        |
| 86 | Metal nanoparticles and DNA co-functionalized single-walled carbon nanotube gas sensors. <i>Nanotechnology</i> , 2013, 24, 505502.  | 1.3  | 33        |
| 87 | Synthesis of hierarchical MoO <sub>2</sub> /MoS <sub>2</sub> nanofibers for electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2017, 28, 105605.  | 1.3  | 33        |
| 88 | Selective and Rapid Room Temperature Detection of H <sub>2</sub> S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , 2011, 23, 2623-2628.  | 1.5  | 32        |
| 89 | Single-crystalline CoFe nanoparticles encapsulated in N-doped carbon nanotubes as a bifunctional catalyst for water splitting. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2307-2313.   | 3.2  | 32        |
| 90 | Transformative piezoelectric enhancement of P(VDF-TrFE) synergistically driven by nanoscale dimensional reduction and thermal treatment. <i>Nanoscale</i> , 2018, 10, 2894-2901.  | 2.8  | 30        |

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|-----|--|-----|-----------|
| 91  | Mesoporous TiO <sub>2</sub> nanospheres loaded with highly dispersed Pd nanoparticles for pH-universal hydrogen evolution reaction. <i>Materials Today Nano</i> , 2019, 6, 100038.   | 2.3 | 30        |
| 92  | 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> , 2015, 404-405, 18-26. | 4.8 | 29        |
| 93  | Electro-transport studies of electrodeposited (Bi <sub>1-x</sub> Sb <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> nanowires. <i>Nanotechnology</i> , 2007, 18, 335203.   | 1.3 | 28        |
| 94  | Investigation of shape controlled silver nanoplates by a solvothermal process. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 8-17.  | 5.0 | 28        |
| 95  | Inkjet printed transparent conductive films using water-dispersible single-walled carbon nanotubes treated by UV/ozone irradiation. <i>Thin Solid Films</i> , 2013, 536, 160-165.  | 0.8 | 28        |
| 96  | Synthesis of ultra-long hollow chalcogenide nanofibers. <i>Chemical Communications</i> , 2011, 47, 9107.   | 2.2 | 27        |
| 97  | Electrospun hydrogen manganese oxide nanofibers as effective adsorbents for Li <sup>+</sup> recovery from seawater. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 115-123.  | 2.9 | 27        |
| 98  | Thermochemical hydrogen sensor based on chalcogenide nanowire arrays. <i>Nanotechnology</i> , 2015, 26, 145503.  | 1.3 | 26        |
| 99  | Controlled Growth of a Single Palladium Nanowire between Microfabricated Electrodes. <i>Chemistry of Materials</i> , 2004, 16, 4955-4959.  | 3.2 | 25        |
| 100 | Simple and effective fabrication of Sb <sub>2</sub> Te <sub>3</sub> films embedded with Ag <sub>2</sub> Te nanoprecipitates for enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 349-356.                 | 5.2 | 25        |
| 101 | Synthesis of Sn doped CuO nanotubes from core-shell Cu/SnO <sub>2</sub> nanowires by the Kirkendall effect. <i>Nanotechnology</i> , 2010, 21, 295601.  | 1.3 | 24        |
| 102 | Ultra-long bismuth telluride nanoribbons synthesis by lithographically patterned galvanic displacement. <i>Journal of Materials Chemistry</i> , 2010, 20, 9982.  | 6.7 | 24        |
| 103 | Synthesis of Samarium-Cobalt Sub-micron Fibers and Their Excellent Hard Magnetic Properties. <i>Frontiers in Chemistry</i> , 2018, 6, 18.  | 1.8 | 24        |
| 104 | Controlled assembly of multi-segment nanowires by histidine-tagged peptides. <i>Nanotechnology</i> , 2006, 17, 3375-3379.  | 1.3 | 23        |
| 105 | Silicon Solar Cell with Nanoporous Structure Formed on a Textured Surface. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2415-2417.   | 1.9 | 23        |
| 106 | Electrodeposited Single Crystalline PbTe Nanowires and Their Transport Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2993-2998.  | 1.5 | 23        |
| 107 | Promotion Effect of Modified Ni/C by La-Ce Oxide for Durable Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12508-12513.   | 3.2 | 23        |
| 108 | Three-dimensional alumina nanotemplate. <i>Electrochimica Acta</i> , 2006, 51, 3543-3550.  | 2.6 | 22        |

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|-----|--|-----|-----------|
| 109 | Electrodeposition of Single-Crystal Cubes of Lead Telluride on Polycrystalline Gold Substrate. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11397-11402.  | 1.5 | 22        |
| 110 | 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> , 2018, 5, 669-681. | 2.2 | 22        |
| 111 | Recent Advances in the Direct Electron Transfer-Enabled Enzymatic Fuel Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 620153.   | 1.8 | 22        |
| 112 | Formation of 3D Self-Organized Neuron-Glia Interface Derived from Neural Stem Cells via Mechano-Electrical Stimulation. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100806.   | 3.9 | 22        |
| 113 | Piezo-photocatalytic flexible PAN/TiO <sub>2</sub> composite nanofibers for environmental remediation. <i>Science of the Total Environment</i> , 2022, 824, 153790.  | 3.9 | 22        |
| 114 | Magnetically Assembled Multiwalled Carbon Nanotubes on Ferromagnetic Contacts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19818-19824.  | 1.2 | 21        |
| 115 | Electronic-nose for detecting environmental pollutants: signal processing and analog front-end design. <i>Analog Integrated Circuits and Signal Processing</i> , 2012, 70, 15-32.  | 0.9 | 21        |
| 116 | Composition- and crystallinity-dependent thermoelectric properties of ternary BixSb <sub>2-x</sub> Te <sub>y</sub> films. <i>Applied Surface Science</i> , 2018, 429, 158-163.   | 3.1 | 21        |
| 117 | Hybrid ZnO/SWNT Nanostructures Based Gas Sensor. <i>Electroanalysis</i> , 2012, 24, 1613-1620.   | 1.5 | 20        |
| 118 | Viral-templated gold/polypyrrole nanopeapods for an ammonia gas sensor. <i>Nanotechnology</i> , 2016, 27, 325502.  | 1.3 | 20        |
| 119 | Synthesis and characterization of orthorhombic-MoO <sub>3</sub> nanofibers with controlled morphology and diameter. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 231-238.                                    | 2.9 | 20        |
| 120 | Evaluation of Strength Development in Concrete with Ground Granulated Blast Furnace Slag Using Apparent Activation Energy. <i>Materials</i> , 2020, 13, 442.   | 1.3 | 20        |
| 121 | Phosphate removal using surface enriched hematite and tetra-n-butylammonium bromide incorporated polyacrylonitrile composite nanofibers. <i>Science of the Total Environment</i> , 2021, 770, 145364.                              | 3.9 | 20        |
| 122 | Bi and Te thin films synthesized by galvanic displacement from acidic nitric baths. <i>Electrochimica Acta</i> , 2010, 55, 743-752.  | 2.6 | 19        |
| 123 | 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> , 2021, 897, 115553.                           | 1.9 | 19        |
| 124 | Size-Dependent Piezoelectric Properties of Electrospun BaTiO <sub>3</sub> for Enhanced Energy Harvesting. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700091.  | 2.7 | 18        |
| 125 | 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> , 2020, 3, 146-151.  | 2.5 | 18        |
| 126 | Nanoengineering Approaches Toward Artificial Nose. <i>Frontiers in Chemistry</i> , 2021, 9, 629329.  | 1.8 | 18        |



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|-----|---|-----|-----------|
| 127 | Galvanic displacement of Bi <sub>2</sub> Te <sub>3</sub> thin films from sacrificial iron group thin films. <i>Electrochimica Acta</i> , 2010, 55, 1072-1080.   | 2.6 | 17        |
| 128 | Tuning the gas sensing performance of single PEDOT nanowire devices. <i>Analyst</i> , 2011, 136, 2350.  | 1.7 | 17        |
| 129 | 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> , 2014, 161, B283-B290.  | 1.3 | 17        |
| 130 | Electrospun hematite nanofiber/mesoporous silica core/shell nanomaterials as an efficient adsorbent for heavy metals. <i>RSC Advances</i> , 2016, 6, 90516-90525.   | 1.7 | 17        |
| 131 | Minimizing the Diameter of Electrospun Polyacrylonitrile (PAN) Nanofibers by Design of Experiments for Electrochemical Application. <i>Electroanalysis</i> , 2018, 30, 2330-2338.   | 1.5 | 17        |
| 132 | Mechano-Responsive Piezoelectric Nanofiber as an On-Demand Drug Delivery Vehicle. <i>ACS Applied Bio Materials</i> , 2021, 4, 3706-3715.  | 2.3 | 17        |
| 133 | Hierarchically palladium nanoparticles embedded polyethyleneimine-reduced graphene oxide aerogel (RGA-PEI-Pd) porous electrodes for electrochemical detection of bisphenol a and H <sub>2</sub> O <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2022, 431, 134250. | 6.6 | 17        |
| 134 | Electrodeposition of p-Type Sb <sub>x</sub> Te <sub>y</sub> Thermoelectric Films. <i>Journal of Electronic Materials</i> , 2011, 40, 1321-1325.   | 1.0 | 16        |
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