## Il-Doo Kim

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/55022/publications.pdf

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19608 34900 11,628 219 61 98 citations h-index g-index papers 232 232 232 13277 docs citations times ranked citing authors all docs

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Electrospun nanofibers as a platform for advanced secondary batteries: a comprehensive review. Journal of Materials Chemistry A, 2016, 4, 703-750.  | 5.2  | 350       |
| 2  | The Role of NiO Doping in Reducing the Impact of Humidity on the Performance of SnO <sub>2</sub> a∈Based Gas Sensors: Synthesis Strategies, and Phenomenological and Spectroscopic Studies. Advanced Functional Materials, 2011, 21, 4456-4463. | 7.8  | 329       |
| 3  | Bifunctional Composite Catalysts Using Co <sub>3</sub> O <sub>4</sub> Nanofibers Immobilized on Nonoxidized Graphene Nanoflakes for High-Capacity and Long-Cycle Li–O <sub>2</sub> Batteries. Nano Letters, 2013, 13, 4190-4197.                | 4.5  | 329       |
| 4  | Thinâ€Wall Assembled SnO <sub>2</sub> Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaledâ€Breathâ€Bensing Properties for the Diagnosis of Diabetes. Advanced Functional Materials, 2013, 23, 2357-2367.             | 7.8  | 328       |
| 5  | Sustainable Personal Protective Clothing for Healthcare Applications: A Review. ACS Nano, 2020, 14, 12313-12340.  | 7.3  | 252       |
| 6  | Nanoscale PdO Catalyst Functionalized Co <sub>3</sub> O <sub>4</sub> Hollow Nanocages Using MOF Templates for Selective Detection of Acetone Molecules in Exhaled Breath. ACS Applied Materials & amp; Interfaces, 2017, 9, 8201-8210.          | 4.0  | 240       |
| 7  | Brush-Like Cobalt Nitride Anchored Carbon Nanofiber Membrane: Current Collector-Catalyst<br>Integrated Cathode for Long Cycle Li–O <sub>2</sub> Batteries. ACS Nano, 2018, 12, 128-139.   | 7.3  | 230       |
| 8  | Glycyrrhizic acid affords robust neuroprotection in the postischemic brain via anti-inflammatory effect by inhibiting HMGB1 phosphorylation and secretion. Neurobiology of Disease, 2012, 46, 147-156.  | 2.1  | 204       |
| 9  | Innovative Nanosensor for Disease Diagnosis. Accounts of Chemical Research, 2017, 50, 1587-1596.  | 7.6  | 202       |
| 10 | Mass-scalable synthesis of 3D porous germanium–carbon composite particles as an ultra-high rate anode for lithium ion batteries. Energy and Environmental Science, 2015, 8, 3577-3588.  | 15.6 | 201       |
| 11 | Recent Developments in 2D Nanomaterials for Chemiresistive-Type Gas Sensors. Electronic Materials Letters, 2018, 14, 221-260.   | 1.0  | 197       |
| 12 | One-Dimensional RuO <sub>2</sub> /Mn <sub>2</sub> O <sub>3</sub> Hollow Architectures as Efficient Bifunctional Catalysts for Lithium–Oxygen Batteries. Nano Letters, 2016, 16, 2076-2083.  | 4.5  | 193       |
| 13 | Accelerating Palladium Nanowire H <sub>2</sub> Sensors Using Engineered Nanofiltration. ACS Nano, 2017, 11, 9276-9285.  | 7.3  | 190       |
| 14 | A High-Capacity and Long-Cycle-Life Lithium-Ion Battery Anode Architecture: Silver<br>Nanoparticle-Decorated SnO <sub>2</sub> /NiO Nanotubes. ACS Nano, 2016, 10, 11317-11326.  | 7.3  | 177       |
| 15 | Metal–Organic Framework Templated Catalysts: Dual Sensitization of PdO–ZnO Composite on Hollow SnO <sub>2</sub> Nanotubes for Selective Acetone Sensors. ACS Applied Materials & amp; Interfaces, 2017, 9, 18069-18077.                         | 4.0  | 173       |
| 16 | Highly reversible switching from P- to N-type NO <sub>2</sub> sensing in a monolayer Fe <sub>2</sub> O <sub>3</sub> inverse opal film and the associated P–N transition phase diagram. Journal of Materials Chemistry A, 2015, 3, 3372-3381.    | 5.2  | 164       |
| 17 | High-Power Aqueous Zinc-lon Batteries for Customized Electronic Devices. ACS Nano, 2018, 12, 11838-11846.   | 7.3  | 158       |
| 18 | Microsphere Templating as Means of Enhancing Surface Activity and Gas Sensitivity of CaCu3Ti4O12Thin Films. Nano Letters, 2006, 6, 193-198.   | 4.5  | 147       |

| #  | Article   | IF   | Citations |
|----|---|------|-----------|
| 19 | Chemiresistive Hydrogen Sensors: Fundamentals, Recent Advances, and Challenges. ACS Nano, 2020, 14, 14284-14322.  | 7.3  | 143       |
| 20 | Rational Design of Highly Porous SnO <sub>2</sub> Nanotubes Functionalized with Biomimetic Nanocatalysts for Direct Observation of Simulated Diabetes. Advanced Functional Materials, 2016, 26, 4740-4748.  | 7.8  | 139       |
| 21 | Metal Organic Framework-Templated Chemiresistor: Sensing Type Transition from P-to-N Using Hollow<br>Metal Oxide Polyhedron via Galvanic Replacement. Journal of the American Chemical Society, 2017, 139,<br>11868-11876.  | 6.6  | 136       |
| 22 | Transpiration Driven Electrokinetic Power Generator. ACS Nano, 2019, 13, 12703-12709.   | 7.3  | 134       |
| 23 | A Critical Review on Functionalization of Airâ€Cathodes for Nonaqueous Li–O <sub>2</sub> Batteries.<br>Advanced Functional Materials, 2020, 30, 1808303.  | 7.8  | 132       |
| 24 | Lithium–Air Batteries: Air-Breathing Challenges and Perspective. ACS Nano, 2020, 14, 14549-14578.   | 7.3  | 126       |
| 25 | 2D WS <sub>2</sub> -edge functionalized multi-channel carbon nanofibers: effect of WS <sub>2</sub> edge-abundant structure on room temperature NO <sub>2</sub> sensing. Journal of Materials Chemistry A, 2017, 5, 8725-8732.   | 5.2  | 122       |
| 26 | Self-operating transpiration-driven electrokinetic power generator with an artificial hydrological cycle. Energy and Environmental Science, 2020, 13, 527-534.  | 15.6 | 122       |
| 27 | Overview of electroceramic materials for oxide semiconductor thin film transistors. Journal of Electroceramics, 2014, 32, 117-140.  | 0.8  | 117       |
| 28 | Exceptional Highâ€Performance of Ptâ€Based Bimetallic Catalysts for Exclusive Detection of Exhaled Biomarkers. Advanced Materials, 2017, 29, 1700737.   | 11.1 | 113       |
| 29 | Pyrolysis of Enzymolysisâ€Treated Wood: Hierarchically Assembled Porous Carbon Electrode for Advanced Energy Storage Devices. Advanced Functional Materials, 2021, 31, 2101077.   | 7.8  | 109       |
| 30 | Nitrogenâ€Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable Humidity Sensor. Small, 2018, 14, e1703934.  | 5.2  | 105       |
| 31 | Ultrasensitive and selective C2H5OH sensors using Rh-loaded In2O3 hollow spheres. Journal of Materials Chemistry, 2011, 21, 18560.  | 6.7  | 103       |
| 32 | Molecular engineering of carbonyl organic electrodes for rechargeable metal-ion batteries: fundamentals, recent advances, and challenges. Energy and Environmental Science, 2021, 14, 4228-4267.  | 15.6 | 100       |
| 33 | Single-Atom Pt Stabilized on One-Dimensional Nanostructure Support <i>via</i> Carbon Nitride/SnO <sub>2</sub> Heterojunction Trapping. ACS Nano, 2020, 14, 11394-11405.   | 7.3  | 98        |
| 34 | Nanoscale PtO <sub>2</sub> Catalysts-Loaded SnO <sub>2</sub> Multichannel Nanofibers toward Highly Sensitive Acetone Sensor. ACS Applied Materials & Samp; Interfaces, 2018, 10, 2016-2025.   | 4.0  | 96        |
| 35 | Mesoporous SnO <sub>2</sub> Nanotubes via Electrospinning–Etching Route: Highly Sensitive and Selective Detection of H <sub>2</sub> S Molecule. ACS Applied Materials & Detection of H <sub>2</sub> S Molecule. ACS Applied Materials & Detection of H <sub>2</sub> S Molecule. ACS Applied Materials & Detection of H <sub>2</sub> S Molecule. ACS Applied Materials & Detection of HS Detection of H <sub>3</sub> S Detection of H <sub>4</sub> S Detection of H <sub< td=""><td>4.0</td><td>95</td></sub<> | 4.0  | 95        |
| 36 | Nanoparticle Ex-solution for Supported Catalysts: Materials Design, Mechanism and Future Perspectives. ACS Nano, 2021, 15, 81-110.  | 7.3  | 95        |

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|----|---|-------------|-----------|
| 37 | Fewâ€Layered WS <sub>2</sub> Nanoplates Confined in Co, Nâ€Doped Hollow Carbon Nanocages:<br>Abundant WS <sub>2</sub> Edges for Highly Sensitive Gas Sensors. Advanced Functional Materials,<br>2018, 28, 1802575.                          | 7.8         | 93        |
| 38 | Rational Design of Efficient Electrocatalysts for Hydrogen Evolution Reaction: Single Layers of WS <sub>2</sub> Nanoplates Anchored to Hollow Nitrogen-Doped Carbon Nanofibers. ACS Applied Materials & Description (2015), 7, 28116-28121. | 4.0         | 92        |
| 39 | High-density Fibrous Polyimide Sponges with Superior Mechanical and Thermal Properties. ACS Applied Materials & Samp; Interfaces, 2020, 12, 19006-19014.  | 4.0         | 92        |
| 40 | Graphene-Wrapped Anatase TiO2 Nanofibers as High-Rate and Long-Cycle-Life Anode Material for Sodium Ion Batteries. Scientific Reports, 2015, 5, 13862.  | 1.6         | 91        |
| 41 | Ultrafast optical reduction of graphene oxide sheets on colorless polyimide film for wearable chemical sensors. NPG Asia Materials, 2016, 8, e315-e315.   | 3.8         | 90        |
| 42 | Selective, sensitive, and reversible detection of H <sub>2</sub> S using Mo-doped ZnO nanowire network sensors. Journal of Materials Chemistry A, 2014, 2, 6412-6418.   | 5.2         | 89        |
| 43 | Hybrid crystalline-ITO/metal nanowire mesh transparent electrodes and their application for highly flexible perovskite solar cells. NPG Asia Materials, 2016, 8, e282-e282.   | 3.8         | 89        |
| 44 | Bimodally Porous WO <sub>3</sub> Microbelts Functionalized with Pt Catalysts for Selective H <sub>2</sub> S Sensors. ACS Applied Materials & Interfaces, 2018, 10, 20643-20651.   | 4.0         | 87        |
| 45 | Carbonâ€Interconnected Ge Nanocrystals as an Anode with Ultraâ€Longâ€Term Cyclability for Lithium Ion<br>Batteries. Advanced Functional Materials, 2014, 24, 5291-5298.   | 7.8         | 82        |
| 46 | Exhaled VOCs sensing properties of WO3 nanofibers functionalized by Pt and IrO2 nanoparticles for diagnosis of diabetes and halitosis. Journal of Electroceramics, 2012, 29, 106-116.   | 0.8         | 79        |
| 47 | Facile Synthesis of Pt-Functionalized Meso/Macroporous SnO <sub>2</sub> Hollow Spheres through in Situ Templating with SiO <sub>2</sub> for H <sub>2</sub> S Sensors. ACS Applied Materials & amp; Interfaces, 2018, 10, 18183-18191.       | 4.0         | 79        |
| 48 | WO <sub>3</sub> Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates. Small, 2016, 12, 911-920.   | <b>5.</b> 2 | 76        |
| 49 | Formation of a Surficial Bifunctional Nanolayer on Nb <sub>2</sub> O <sub>5</sub> for Ultrastable Electrodes for Lithiumâ€lon Battery. Small, 2017, 13, 1603610.  | 5.2         | 74        |
| 50 | Hierarchical Metal–Organic Framework-Assembled Membrane Filter for Efficient Removal of Particulate Matter. ACS Applied Materials & Samp; Interfaces, 2018, 10, 19957-19963.  | 4.0         | 74        |
| 51 | Colorimetric Dye-Loaded Nanofiber Yarn: Eye-Readable and Weavable Gas Sensing Platform. ACS Nano, 2020, 14, 16907-16918.  | 7.3         | 74        |
| 52 | Surface Activity-Tuned Metal Oxide Chemiresistor: Toward Direct and Quantitative Halitosis Diagnosis. ACS Nano, 2021, 15, 14207-14217.  | 7.3         | 74        |
| 53 | Highly Efficient Electronic Sensitization of Non-oxidized Graphene Flakes on Controlled Pore-loaded WO3 Nanofibers for Selective Detection of H2S Molecules. Scientific Reports, 2015, 5, 8067.   | 1.6         | 70        |
| 54 | Pt-Functionalized PdO Nanowires for Room Temperature Hydrogen Gas Sensors. ACS Sensors, 2018, 3, 2152-2158.   | 4.0         | 70        |

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|----|---|-------------|-----------|
| 55 | Towards Watt-scale hydroelectric energy harvesting by Ti <sub>3</sub> C <sub>2</sub> T <sub><i>&gt;x</i>y</sub> -based transpiration-driven electrokinetic power generators. Energy and Environmental Science, 2022, 15, 123-135. | 15.6        | 70        |
| 56 | MOF derived ZnCo <sub>2</sub> O <sub>4</sub> porous hollow spheres functionalized with Ag nanoparticles for a long-cycle and high-capacity lithium ion battery anode. Journal of Materials Chemistry A, 2017, 5, 22717-22725.     | 5.2         | 69        |
| 57 | Cobalt(ii) monoxide nanoparticles embedded in porous carbon nanofibers as a highly reversible conversion reaction anode for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3239.                                    | 5.2         | 68        |
| 58 | Amorphous Zinc Stannate (Zn <sub>2</sub> SnO <sub>4</sub> ) Nanofibers Networks as Photoelectrodes for Organic Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 3146-3155.                                   | 7.8         | 67        |
| 59 | Musselâ€Inspired Polydopamineâ€Treated Reinforced Composite Membranes with Selfâ€Supported CeO <i><sub>×</sub></i> Radical Scavengers for Highly Stable PEM Fuel Cells. Advanced Functional Materials, 2019, 29, 1806929.         | 7.8         | 66        |
| 60 | Silver Nanowire Embedded Colorless Polyimide Heater for Wearable Chemical Sensors: Improved Reversible Reaction Kinetics of Optically Reduced Graphene Oxide. Small, 2016, 12, 5826-5835.   | 5.2         | 65        |
| 61 | Growth dynamics of solid electrolyte interphase layer on SnO2 nanotubes realized by graphene liquid cell electron microscopy. Nano Energy, 2016, 25, 154-160.   | 8.2         | 63        |
| 62 | Dimensional Effects of MoS <sub>2</sub> Nanoplates Embedded in Carbon Nanofibers for Bifunctional Li and Na Insertion and Conversion Reactions. ACS Applied Materials & Samp; Interfaces, 2016, 8, 26758-26768.                   | 4.0         | 62        |
| 63 | Metal Chelation Assisted In Situ Migration and Functionalization of Catalysts on Peapod-Like Hollow SnO <sub>2</sub> toward a Superior Chemical Sensor. Small, 2016, 12, 5989-5997.   | 5.2         | 61        |
| 64 | Applications and Advances in Bioelectronic Noses for Odour Sensing. Sensors, 2018, 18, 103.   | 2.1         | 61        |
| 65 | A General Synthesis of Crumpled Metal Oxide Nanosheets as Superior Chemiresistive Sensing Layers.<br>Advanced Functional Materials, 2019, 29, 1903128.  | 7.8         | 61        |
| 66 | In Situ Coupling of Multidimensional MOFs for Heterogeneous Metal-Oxide Architectures: Toward Sensitive Chemiresistors. ACS Central Science, 2018, 4, 929-937.  | 5.3         | 59        |
| 67 | Rational design of protective In2O3 layer-coated carbon nanopaper membrane: Toward stable cathode for long-cycle Li-O2 batteries. Nano Energy, 2018, 46, 193-202.   | 8.2         | 58        |
| 68 | Wireless Real-Time Temperature Monitoring of Blood Packages: Silver Nanowire-Embedded Flexible Temperature Sensors. ACS Applied Materials & Samp; Interfaces, 2018, 10, 44678-44685.  | 4.0         | 58        |
| 69 | Recent advances in ABO3 perovskites: their gas-sensing performance as resistive-type gas sensors. Springer Series in Emerging Cultural Perspectives in Work, Organizational, and Personnel Studies, 2020, 57, 24-39.              | 1.5         | 58        |
| 70 | Synergistic Coupling of Metallic Cobalt Nitride Nanofibers and IrO <sub><i>x</i></sub> Nanoparticle Catalysts for Stable Oxygen Evolution. Chemistry of Materials, 2018, 30, 5941-5950.   | 3.2         | 57        |
| 71 | Glassy Metal Alloy Nanofiber Anodes Employing Graphene Wrapping Layer: Toward<br>Ultralong-Cycle-Life Lithium-Ion Batteries. ACS Nano, 2015, 9, 6717-6727.  | <b>7.</b> 3 | 55        |
| 72 | Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. Macromolecular Materials and Engineering, 2017, 302, 1600569.   | 1.7         | 55        |

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|----|--|-------------|-----------|
| 73 | Metal–Organic Framework-Templated PdO-Co <sub>3</sub> O <sub>4</sub> Nanocubes Functionalized by SWCNTs: Improved NO <sub>2</sub> Reaction Kinetics on Flexible Heating Film. ACS Applied Materials & Ditemplates amp; Interfaces, 2017, 9, 40593-40603. | 4.0         | 55        |
| 74 | Three-Dimensional Nanofibrous Air Electrode Assembled With Carbon Nanotubes-Bridged Hollow Fe <sub>2</sub> O <sub>3</sub> Nanoparticles for High-Performance Lithium–Oxygen Batteries. ACS Applied Materials & Diterfaces, 2018, 10, 6531-6540.          | 4.0         | 55        |
| 75 | Optically Sintered 2D RuO <sub>2</sub> Nanosheets: Temperatureâ€Controlled NO <sub>2</sub> Reaction. Advanced Functional Materials, 2017, 27, 1606026.   | 7.8         | 54        |
| 76 | Mulberry Paperâ€Based Supercapacitor Exhibiting High Mechanical and Chemical Toughness for Largeâ€Scale Energy Storage Applications. Advanced Energy Materials, 2018, 8, 1800064.  | 10.2        | 53        |
| 77 | The Design and Science of Polyelemental Nanoparticles. ACS Nano, 2020, 14, 6407-6413.  | 7.3         | 53        |
| 78 | Synthesis of Ni-based co-catalyst functionalized W:BiVO <sub>4</sub> nanofibers for solar water oxidation. Green Chemistry, 2016, 18, 944-950.   | 4.6         | 50        |
| 79 | Rational Design of 1-D Co3O4 Nanofibers@Low content Graphene Composite Anode for High Performance Li-lon Batteries. Scientific Reports, 2017, 7, 45105.  | 1.6         | 49        |
| 80 | Woodâ€Derived, Conductivity and Hierarchical Pore Integrated Thick Electrode Enabling High Areal/Volumetric Energy Density for Hybrid Capacitors. Small, 2021, 17, e2102532.   | 5.2         | 49        |
| 81 | An iron-doped NASICON type sodium ion battery cathode for enhanced sodium storage performance and its full cell applications. Journal of Materials Chemistry A, 2020, 8, 20436-20445.  | 5.2         | 48        |
| 82 | Fast, Scalable Synthesis of Micronized Ge <sub>3</sub> N <sub>4</sub> @C with a High Tap Density for Excellent Lithium Storage. Advanced Functional Materials, 2017, 27, 1605975.  | 7.8         | 47        |
| 83 | Sub-Parts-per-Million Hydrogen Sulfide Colorimetric Sensor: Lead Acetate Anchored Nanofibers toward Halitosis Diagnosis. Analytical Chemistry, 2018, 90, 8769-8775.  | 3.2         | 47        |
| 84 | Facile synthesis of hierarchical porous WO <sub>3</sub> nanofibers having 1D nanoneedles and their functionalization with non-oxidized graphene flakes for selective detection of acetone molecules. RSC Advances, 2015, 5, 7584-7588.                   | 1.7         | 46        |
| 85 | Feasible Defect Engineering by Employing Metal Organic Framework Templates into One-Dimensional<br>Metal Oxides for Battery Applications. ACS Applied Materials & Samp; Interfaces, 2018, 10, 20540-20549.   | 4.0         | 46        |
| 86 | Graphene Liquid Cell Electron Microscopy: Progress, Applications, and Perspectives. ACS Nano, 2021, 15, 288-308.   | 7.3         | 45        |
| 87 | Hierarchically Assembled Cobalt Oxynitride Nanorods and N-Doped Carbon Nanofibers for Efficient<br>Bifunctional Oxygen Electrocatalysis with Exceptional Regenerative Efficiency. ACS Nano, 2021, 15,<br>11218-11230.                                    | <b>7.</b> 3 | 45        |
| 88 | Atomic-scale combination of germanium-zinc nanofibers for structural and electrochemical evolution. Nature Communications, 2019, 10, 2364.   | 5.8         | 44        |
| 89 | Rational design of Sn-based multicomponent anodes for high performance lithium-ion batteries: SnO <sub>2</sub> @TiO <sub>2</sub> @reduced graphene oxide nanotubes. RSC Advances, 2016, 6, 2920-2925.  | 1.7         | 43        |
| 90 | Highly efficient and stable solid-state Li–O <sub>2</sub> batteries using a perovskite solid electrolyte.<br>Journal of Materials Chemistry A, 2019, 7, 3150-3160.   | 5.2         | 43        |

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|-----|---|------|-----------|
| 91  | Stress-Tolerant Nanoporous Germanium Nanofibers for Long Cycle Life Lithium Storage with High Structural Stability. ACS Nano, 2018, 12, 8169-8176.  | 7.3  | 42        |
| 92  | 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. Advanced Functional Materials, 2018, 28, 1804508.  | 7.8  | 41        |
| 93  | Heterogeneous, Porous 2D Oxide Sheets via Rapid Galvanic Replacement: Toward Superior HCHO Sensing Application. Advanced Functional Materials, 2019, 29, 1903012.   | 7.8  | 41        |
| 94  | Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li–O <sub>2</sub> Batteries. ChemSusChem, 2016, 9, 2080-2088.   | 3.6  | 39        |
| 95  | Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications.<br>Carbohydrate Polymers, 2020, 247, 116705.   | 5.1  | 39        |
| 96  | Pore-Size-Tuned Graphene Oxide Membrane as a Selective Molecular Sieving Layer: Toward Ultraselective Chemiresistors. Analytical Chemistry, 2020, 92, 957-965.  | 3.2  | 38        |
| 97  | Ensemble Design of Electrode–Electrolyte Interfaces: Toward High-Performance Thin-Film<br>All-Solid-State Li–Metal Batteries. ACS Nano, 2021, 15, 4561-4575.  | 7.3  | 38        |
| 98  | Polyelemental Nanoparticles as Catalysts for a Li–O <sub>2</sub> Battery. ACS Nano, 2021, 15, 4235-4244.  | 7.3  | 38        |
| 99  | Electrospun materials for solar energy conversion: innovations and trends. Journal of Materials Chemistry C, 2016, 4, 10173-10197.  | 2.7  | 37        |
| 100 | Bioinspired Cocatalysts Decorated WO <sub>3</sub> Nanotube Toward Unparalleled Hydrogen Sulfide Chemiresistor. ACS Sensors, 2018, 3, 1164-1173.   | 4.0  | 36        |
| 101 | Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. ACS Nano, 2021, 15, 3971-3995.   | 7.3  | 36        |
| 102 | Large-area synthesis of nanoscopic catalyst-decorated conductive MOF film using microfluidic-based solution shearing. Nature Communications, 2021, 12, 4294.  | 5.8  | 36        |
| 103 | Crystalline IrO2-decorated TiO2 nanofiber scaffolds for robust and sustainable solar water oxidation. Journal of Materials Chemistry A, 2014, 2, 5610.  | 5.2  | 34        |
| 104 | Intranasal delivery of HMGB1-binding heptamer peptide confers a robust neuroprotection in the postischemic brain. Neuroscience Letters, 2012, 525, 179-183.   | 1.0  | 33        |
| 105 | Tree Gum–Graphene Oxide Nanocomposite Films as Gas Barriers. ACS Applied Nano Materials, 2020, 3, 633-640.  | 2.4  | 33        |
| 106 | 2D Materials Decorated with Ultrathin and Porous Graphene Oxide for High Stability and Selective Surface Activity. Advanced Materials, 2020, 32, e2002723.  | 11.1 | 33        |
| 107 | Recycling non-food-grade tree gum wastes into nanoporous carbon for sustainable energy harvesting. Green Chemistry, 2020, 22, 1198-1208.  | 4.6  | 33        |
| 108 | Hierarchical ZnO Nanowires-loaded Sb-doped SnO2-ZnO Micrograting Pattern via Direct Imprinting-assisted Hydrothermal Growth and Its Selective Detection of Acetone Molecules. Scientific Reports, 2016, 6, 18731. | 1.6  | 32        |

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|-----|---|--------------|-----------|
| 109 | High-rate formation cycle of Co3O4 nanoparticle for superior electrochemical performance in lithium-ion batteries. Electrochimica Acta, 2019, 295, 7-13.  | 2.6          | 32        |
| 110 | Highly porous coral-like silicon particles synthesized by an ultra-simple thermal-reduction method. Journal of Materials Chemistry A, 2018, 6, 2834-2846.   | 5.2          | 31        |
| 111 | Cu Microbelt Network Embedded in Colorless Polyimide Substrate: Flexible Heater Platform with High Optical Transparency and Superior Mechanical Stability. ACS Applied Materials & Samp; Interfaces, 2017, 9, 39650-39656.  | 4.0          | 29        |
| 112 | Perovskite La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3â~δ</sub> sensitized SnO <sub>2</sub> fiber-in-tube scaffold: highly selective and sensitive formaldehyde sensing. Journal of Materials Chemistry A, 2018, 6, 10543-10551. | 5.2          | 29        |
| 113 | Oxide/ZIFâ€8 Hybrid Nanofiber Yarns: Heightened Surface Activity for Exceptional Chemiresistive Sensing. Advanced Materials, 2022, 34, e2105869.  | 11.1         | 29        |
| 114 | Rigorous substrate cleaning process for reproducible thin film hematite (î±-Fe <sub>2</sub> O <sub>3</sub> ) photoanodes. Journal of Materials Research, 2016, 31, 1565-1573.   | 1.2          | 28        |
| 115 | Graphene oxide templating: facile synthesis of morphology engineered crumpled SnO <sub>2</sub> nanofibers for superior chemiresistors. Journal of Materials Chemistry A, 2018, 6, 13825-13834.  | <b>5.</b> 2  | 28        |
| 116 | Highâ€Performance, Flexible NO <sub>2</sub> Chemiresistors Achieved by Design of Imineâ€incorporated nâ€īype Conjugated Polymers. Advanced Science, 2022, 9, e2200270.  | 5.6          | 28        |
| 117 | Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction.<br>Small, 2019, 15, e1901529.   | 5 <b>.</b> 2 | 27        |
| 118 | Heterogeneous Metal Oxide–Graphene Thorn-Bush Single Fiber as a Freestanding Chemiresistor. ACS Applied Materials & Distriction (2018), 11, 10208-10217.  | 4.0          | 27        |
| 119 | Largeâ€Area Synthesis of Ultrathin, Flexible, and Transparent Conductive Metal–Organic Framework<br>Thin Films via a Microfluidicâ€Based Solution Shearing Process. Advanced Materials, 2022, 34, e2107696.   | 11.1         | 27        |
| 120 | Porous Nanofiber Membrane: Rational Platform for Highly Sensitive Thermochromic Sensor. Advanced Functional Materials, 2022, 32, .  | 7.8          | 27        |
| 121 | An angstrom-level d-spacing control of graphite oxide using organofillers for high-rate lithium storage. CheM, 2022, 8, 2393-2409.  | 5.8          | 27        |
| 122 | Direct Realization of Complete Conversion and Agglomeration Dynamics of SnO <sub>2</sub> Nanoparticles in Liquid Electrolyte. ACS Omega, 2017, 2, 6329-6336.  | 1.6          | 26        |
| 123 | Dopantâ€Driven Positive Reinforcement in Exâ€Solution Process: New Strategy to Develop Highly Capable and Durable Catalytic Materials. Advanced Materials, 2020, 32, e2003983.  | 11.1         | 26        |
| 124 | 3D periodic polyimide nano-networks for ultrahigh-rate and sustainable energy storage. Energy and Environmental Science, 2021, 14, 5894-5902.   | 15.6         | 26        |
| 125 | Synergistic Integration of Chemoâ€Resistive and SERS Sensing for Labelâ€Free Multiplex Gas Detection. Advanced Materials, 2021, 33, e2105199.   | 11.1         | 25        |
| 126 | Recent Progress in 1D Air Electrode Nanomaterials for Enhancing the Performance of Nonaqueous Lithium–Oxygen Batteries. ChemNanoMat, 2016, 2, 616-634.  | 1.5          | 24        |

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