

# Jun Min Suh

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,841  
citations

159585

30  
h-index

189892

50  
g-index

53  
all docs

53  
docs citations

53  
times ranked

3633  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                          | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Palladium Nanoparticles on Assorted Nanostructured Supports: Applications for Suzuki, Heck, and Sonogashira Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2020, 3, 2070-2103.                                                    | 5.0  | 196       |
| 2  | Recent Advances in the Nanocatalyst-Assisted $\text{NaBH}_4$ Reduction of Nitroaromatics in Water. <i>ACS Omega</i> , 2019, 4, 483-495.                                                                                                          | 3.5  | 180       |
| 3  | Perspectives and challenges in multilayer ceramic capacitors for next generation electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9782-9802.                                                                                      | 5.5  | 173       |
| 4  | Magnetically retrievable nanocomposite adorned with Pd nanocatalysts: efficient reduction of nitroaromatics in aqueous media. <i>Green Chemistry</i> , 2018, 20, 3809-3817.                                                                      | 9.0  | 143       |
| 5  | Highly selective and sensitive chemoresistive humidity sensors based on $\text{rGO}/\text{MoS}_2$ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5016-5024.                                                        | 10.3 | 132       |
| 6  | Reduced graphene oxide-based materials for electrochemical energy conversion reactions. , 2019, 1, 85-108.                                                                                                                                       |      | 108       |
| 7  | p-Heterojunction of Nickel Oxide-Decorated Cobalt Oxide Nanorods for Enhanced Sensitivity and Selectivity toward Volatile Organic Compounds. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1050-1058.                                | 8.0  | 103       |
| 8  | Two-Dimensional $\text{NbS}_2$ Gas Sensors for Selective and Reversible $\text{NO}_2$ Detection at Room Temperature. <i>ACS Sensors</i> , 2019, 4, 2395-2402.                                                                                    | 7.8  | 101       |
| 9  | Substantially enhanced photoelectrochemical performance of $\text{TiO}_2$ nanorods/ $\text{CdS}$ nanocrystals heterojunction photoanode decorated with $\text{MoS}_2$ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118102. | 20.2 | 99        |
| 10 | Copper oxide-graphene oxide nanocomposite: efficient catalyst for hydrogenation of nitroaromatics in water. <i>Nano Convergence</i> , 2019, 6, 6.                                                                                                | 12.1 | 94        |
| 11 | Long-term reliable physical health monitoring by sweat pore-inspired perforated electronic skins. <i>Science Advances</i> , 2021, 7, .                                                                                                           | 10.3 | 89        |
| 12 | Synthesis of Numerous Edge Sites in $\text{MoS}_2$ via $\text{SiO}_2$ Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31594-31602.                                                  | 8.0  | 79        |
| 13 | Chemical Sensors Based on Two-Dimensional (2D) Materials for Selective Detection of Ions and Molecules in Liquid. <i>Frontiers in Chemistry</i> , 2019, 7, 708.                                                                                  | 3.6  | 75        |
| 14 | Facile synthesis of monodispersed Pd nanocatalysts decorated on graphene oxide for reduction of nitroaromatics in aqueous solution. <i>Research on Chemical Intermediates</i> , 2019, 45, 599-611.                                               | 2.7  | 75        |
| 15 | Substantially improved room temperature $\text{NO}_2$ sensing in 2-dimensional $\text{SnS}_2$ nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11168-11178.                                 | 10.3 | 75        |
| 16 | Heterojunction Based on Rh-Decorated $\text{WO}_3$ Nanorods for Morphological Change and Gas Sensor Application Using the Transition Effect. <i>Chemistry of Materials</i> , 2019, 31, 207-215.                                                  | 6.7  | 71        |
| 17 | Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 109. <i>NPG Asia Materials</i> , 2020, 12, .                                                                                                                | 7.9  | 71        |
| 18 | $\text{SnS}_2$ Nanograins on Porous $\text{SiO}_2$ Nanorods Template for Highly Sensitive $\text{NO}_2$ Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019, 4, 678-686.                                               | 7.8  | 64        |

| #  | ARTICLE                                                                                                                                                                                                            | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Electrocatalytic Water Splitting and CO <sub>2</sub> Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials. <i>Small Methods</i> , 2019, 3, 1800492.                                | 8.6  | 63        |
| 20 | Colorimetric Sensors for Toxic and Hazardous Gas Detection: A Review. <i>Electronic Materials Letters</i> , 2021, 17, 1-17.                                                                                        | 2.2  | 62        |
| 21 | Recent Advances in Rechargeable Aluminum-Ion Batteries and Considerations for Their Future Progress. <i>ACS Applied Energy Materials</i> , 2020, 3, 6019-6035.                                                     | 5.1  | 58        |
| 22 | Reconfigurable heterogeneous integration using stackable chips with embedded artificial intelligence. <i>Nature Electronics</i> , 2022, 5, 386-393.                                                                | 26.0 | 57        |
| 23 | Pd- and Au-Decorated MoS <sub>2</sub> Gas Sensors for Enhanced Selectivity. <i>Electronic Materials Letters</i> , 2019, 15, 368-376.                                                                               | 2.2  | 50        |
| 24 | Light-activated gas sensing: a perspective of integration with micro-LEDs and plasmonic nanoparticles. <i>Materials Advances</i> , 2021, 2, 827-844.                                                               | 5.4  | 46        |
| 25 | Nanogap-controlled Pd coating for hydrogen sensitive switches and hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1841-1848.                                                               | 7.8  | 42        |
| 26 | Synergetically Selective Toluene Sensing in Hematite-Decorated Nickel Oxide Nanocorals. <i>Advanced Materials Technologies</i> , 2017, 2, 1600259.                                                                 | 5.8  | 41        |
| 27 | Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanogloos: Synergistic Effect on High-Performance Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7529-7538.    | 8.0  | 39        |
| 28 | Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700142.                                            | 5.3  | 36        |
| 29 | Au decoration of vertical hematite nanotube arrays for further selective detection of acetone in exhaled breath. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 587-594.                                    | 7.8  | 35        |
| 30 | Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation. <i>Small</i> , 2019, 15, e1902065.                                                                                                      | 10.0 | 34        |
| 31 | Substantially enhanced front illumination photocurrent in porous SnO <sub>2</sub> nanorods/networked BiVO <sub>4</sub> heterojunction photoanodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14633-14643. | 10.3 | 30        |
| 32 | Edge-exposed WS <sub>2</sub> on 1D nanostructures for highly selective NO <sub>2</sub> sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129566.                                   | 7.8  | 30        |
| 33 | Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017, 7, 272-279.                                                  | 1.8  | 29        |
| 34 | Optically Activated 3D Thin-Shell TiO <sub>2</sub> for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. <i>Advanced Science</i> , 2021, 8, 2001883.                                      | 11.2 | 28        |
| 35 | Transfer of ultrathin molybdenum disulfide and transparent nanomesh electrode onto silicon for efficient heterojunction solar cells. <i>Nano Energy</i> , 2018, 50, 649-658.                                       | 16.0 | 26        |
| 36 | Artificial Adaptive and Maladaptive Sensory Receptors Based on a Surface-Dominated Diffusive Memristor. <i>Advanced Science</i> , 2022, 9, e2103484.                                                               | 11.2 | 26        |

| #  | ARTICLE                                                                                                                                                                                                                                     | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23793-23800.                                                               | 8.0  | 22        |
| 38 | Daylight-Induced Metal-Insulator Transition in Ag-Decorated Vanadium Dioxide Nanorod Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11568-11578.                                                                         | 8.0  | 20        |
| 39 | Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS <sub>2</sub> film and SiO <sub>2</sub> growth template. <i>Nano Convergence</i> , 2021, 8, 11.                                                          | 12.1 | 20        |
| 40 | Rationally Designed TiO <sub>2</sub> Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor. <i>Small Methods</i> , 2021, 5, e2100941.                                                           | 8.6  | 18        |
| 41 | Triple Planar Heterojunction of SnO <sub>2</sub> /WO <sub>3</sub> /BiVO <sub>4</sub> with Enhanced Photoelectrochemical Performance under Front Illumination. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1765.                        | 2.5  | 17        |
| 42 | Direct Observation of Surface Potential Distribution in Insulation Resistance Degraded Acceptor-Doped BaTiO <sub>3</sub> Multilayered Ceramic Capacitors. <i>Electronic Materials Letters</i> , 2018, 14, 629-635.                          | 2.2  | 15        |
| 43 | Visible Light Driven Ultrasensitive and Selective NO <sub>2</sub> Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by Cysteine. <i>Small</i> , 2022, 18, e2106613.                                                          | 10.0 | 14        |
| 44 | Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021, 5, .                                                                                                                                                   | 7.9  | 12        |
| 45 | Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15212-15220.                                                                                                         | 5.5  | 12        |
| 46 | Architecture engineering of nanostructured catalyst via layer-by-layer adornment of multiple nanocatalysts on silica nanorod arrays for hydrogenation of nitroarenes. <i>Scientific Reports</i> , 2022, 12, 2.                              | 3.3  | 10        |
| 47 | Extremely Sensitive and Selective NO <sub>2</sub> Detection at Relative Humidity 90% in 2-Dimensional Tin Sulfides/SnO <sub>2</sub> Nanorod Heterostructure. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132319.                  | 7.8  | 7         |
| 48 | High Hole Mobility Inorganic Halide Perovskite Field-Effect Transistors with Enhanced Phase Stability and Interfacial Defect Tolerance. <i>Advanced Electronic Materials</i> , 2022, 8, 2100624.                                            | 5.1  | 6         |
| 49 | 2-Dimensional Materials: Electrocatalytic Water Splitting and CO <sub>2</sub> Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials ( <i>Small Methods</i> 9/2019). <i>Small Methods</i> , 2019, 3, 1970028. | 8.6  | 4         |
| 50 | Light-Activated Gas Sensors: Optically Activated 3D Thin-Shell TiO <sub>2</sub> for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation ( <i>Adv. Sci.</i> 3/2021). <i>Advanced Science</i> , 2021, 8, 2170012.       | 11.2 | 2         |
| 51 | Effects of Metal-Organic Framework Membrane on Hydrogen Selectivity. <i>Journal of Sensor Science and Technology</i> , 2020, 29, 374-381.                                                                                                   | 0.2  | 2         |
| 52 | Sensors/Biosensors: Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation ( <i>Small</i> 40/2019). <i>Small</i> , 2019, 15, 1970214.                                                                                    | 10.0 | 0         |