

# Shenggao Wang

## List of Publications by Year in descending order

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30  
papers

312  
citations

1040056

9  
h-index

940533

16  
g-index

31  
all docs

31  
docs citations

31  
times ranked

409  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Enhanced gas sensing properties at low working temperature of iron molybdate/MXene composite. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152785.  | 5.5 | 42        |
| 2  | Enhanced visible-light responsive photocatalytic activity of Bi <sub>25</sub> FeO <sub>40</sub> /Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> composites and mechanism investigation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10923-10933. | 2.2 | 34        |
| 3  | Simulation of planar Si/Mg <sub>2</sub> Si/Si p-i-n heterojunction solar cells for high efficiency. <i>Solar Energy</i> , 2017, 158, 654-662.  | 6.1 | 31        |
| 4  | The effects of electron and hole transport layer with the electrode work function on perovskite solar cells. <i>Modern Physics Letters B</i> , 2016, 30, 1650341.  | 1.9 | 30        |
| 5  | Microwave plasma synthesized nitrogen-doped carbon nanotubes for oxygen reduction. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1541-1549.   | 2.5 | 22        |
| 6  | Numerical simulation and optimization of Si/BaSi <sub>2</sub> heterojunction and BaSi <sub>2</sub> homojunction solar cells. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 075501.   | 2.8 | 16        |
| 7  | Theoretical analysis of doping concentration, layer thickness and barrier height effects on BaSi <sub>2</sub> based homojunction solar cells toward high efficiency. <i>Solar Energy</i> , 2020, 201, 857-865.   | 6.1 | 14        |
| 8  | Numerical simulation of planar BaSi <sub>2</sub> based Schottky junction solar cells toward high efficiency. <i>Solid-State Electronics</i> , 2018, 149, 46-51.  | 1.4 | 12        |
| 9  | A Two-Step Method Synthesis and Gas Sensing Properties of CoSnO <sub>3</sub> Nanoparticles. <i>ChemistrySelect</i> , 2019, 4, 7591-7595.   | 1.5 | 11        |
| 10 | Numerical simulation on n-MoS <sub>2</sub> /p-Si heterojunction solar cells. <i>Modern Physics Letters B</i> , 2017, 31, 1750079.  | 1.9 | 9         |
| 11 | Optimizing optoelectronic performances by controlling halide compositions of MAPb(Cl <sub>x</sub> I <sub>1-x</sub> ) <sub>3</sub> single crystals. <i>CrystEngComm</i> , 2019, 21, 4169-4174.  | 2.6 | 9         |
| 12 | Tunable dielectric properties of porous ZnAl <sub>2</sub> O <sub>4</sub> ceramics for wave-transmitting devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6475-6481.  | 2.2 | 9         |
| 13 | Highly sensitive sensor based on NaBi(MoO <sub>4</sub> ) <sub>2</sub> /MWCNT composites. <i>Materials Research Express</i> , 2018, 5, 125016.  | 1.6 | 8         |
| 14 | Joining of Graphite to Ti6Al4V Alloy Using Cu-Based Fillers. <i>Advanced Engineering Materials</i> , 2019, 21, 1900719.  | 3.5 | 7         |
| 15 | Enhanced oxygen reduction reaction performance of nitrogen-doped carbon nanocages. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6608-6616.  | 2.2 | 7         |
| 16 | Preparation and properties of SnO <sub>2</sub> /nitrogen-doped foamed carbon as anode materials for lithium ion batteries. <i>Ionics</i> , 2020, 26, 5333-5341.  | 2.4 | 6         |
| 17 | Synthesis and gas sensing properties of Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> nanosheets. <i>Materials Research Express</i> , 2019, 6, 095083.  | 1.6 | 5         |
| 18 | Effect of Nb or Ta Interlayer on Microstructure and Mechanical Properties of Graphite/Ti6Al4V Alloy Joints. <i>Advanced Engineering Materials</i> , 2021, 23, 2001237.   | 3.5 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of contact barrier height on performances of BaSi <sub>2</sub> heterojunction and homojunction solar cells. <i>Modern Physics Letters B</i> , 0, , .   | 1.9 | 5         |
| 20 | Structure and Electrochemical Properties of Si-Mn/C Core-Shell Composites for Lithium-Ion Batteries. <i>Jom</i> , 2020, 72, 3037-3045.  | 1.9 | 4         |
| 21 | Anisotropic Optoelectronic Properties of MAPbI <sub>3</sub> on (100), (112) and (001) Facets. <i>Journal of Electronic Materials</i> , 2021, 50, 6881-6887.   | 2.2 | 4         |
| 22 | Electrochemical detection of methanol by platinum/carbon nanotubes nanocomposites synthesised via hydrogen plasma reduction process. <i>Micro and Nano Letters</i> , 2013, 8, 890-894.                              | 1.3 | 3         |
| 23 | Morphology-controlled synthesis and gas-sensing properties of Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14022-14029. | 2.2 | 3         |
| 24 | Enhanced supercapacitive performance of MnO <sub>x</sub> through N <sub>2</sub> /H <sub>2</sub> plasma treatment. <i>Chemical Papers</i> , 2019, 73, 2679-2686.   | 2.2 | 3         |
| 25 | The role of Mn as dopant on the optoelectronic properties of MA(Pb <sub>1-x</sub> Mn <sub>x</sub> )Cl <sub>3</sub> single crystals. <i>Materials Research Express</i> , 2019, 6, 086210.                            | 1.6 | 3         |
| 26 | The preparation and ozone-sensing performance of Co <sub>3</sub> O <sub>4</sub> nanobricks. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9678-9682.                                    | 2.2 | 3         |
| 27 | Transient liquid phase bonding of graphite to Ti6Al4V alloy. <i>Science and Technology of Welding and Joining</i> , 2022, 27, 615-620.  | 3.1 | 3         |
| 28 | The role of carbon nanotubes on the capacitance of MnO <sub>2</sub> /CNTs. <i>Russian Journal of Applied Chemistry</i> , 2016, 89, 1189-1195.   | 0.5 | 2         |
| 29 | Preparation of Ag Nanoparticles Coated with Silver Stearate for Low-Temperature Sinter-Bonding. <i>Journal of Electronic Materials</i> , 2019, 48, 3336-3344.   | 2.2 | 2         |
| 30 | Effect of the formation of CNTs on the reduction of ilmenite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 948-951.   | 1.0 | 0         |