

# Guozhen Liu

## List of Publications by Year in descending order

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29  
papers

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citations

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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Photovoltaic effects and its oxygen content dependence in BaTiO <sub>3</sub> /Si heterojunctions. Applied Physics Letters, 2008, 92, .  | 3.3 | 42        |
| 2  | Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, .   | 5.2 | 34        |
| 3  | Microstructural and dielectric properties of Ba <sub>0.6</sub> Sr <sub>0.4</sub> Ti <sub>1-x</sub> Zr <sub>x</sub> O <sub>3</sub> based combinatorial thin film capacitors library. Journal of Applied Physics, 2010, 108, 114108.    | 2.5 | 16        |
| 4  | Coexistence of Photoelectric Conversion and Storage in van der Waals Heterojunctions. Physical Review Letters, 2021, 127, 217401.   | 7.8 | 13        |
| 5  | A universal method to fabricate p-n or Schottky heterojunctions based on two-dimensional electron gas. Applied Physics Letters, 2019, 115, .  | 3.3 | 12        |
| 6  | Epitaxial strain and its relaxation at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Journal of Applied Physics, 2016, 120, 085302.   | 2.5 | 11        |
| 7  | Negative photoconductivity under visible light illumination in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Journal Physics D: Applied Physics, 2019, 52, 095302.   | 2.8 | 10        |
| 8  | Origin of unexpected lattice expansion and ferromagnetism in epitaxial EuTiO <sub>3</sub> thin films. Ceramics International, 2020, 46, 19990-19995.  | 4.8 | 9         |
| 9  | Growth, microstructure and transport properties of ultrathin epitaxial La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> films prepared by laser molecular beam epitaxy. Vacuum, 2018, 148, 117-123.                               | 3.5 | 8         |
| 10 | WSe <sub>2</sub> /2D electron gas heterojunction on KTaO <sub>3</sub> for room-temperature giant photoconductivity. Ceramics International, 2021, 47, 7425-7429.  | 4.8 | 8         |
| 11 | Oxygen vacancies modulated photoelectrical properties in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Materials Research Express, 2018, 5, 046308.   | 1.6 | 5         |
| 12 | Controllable conduction and hidden phase transitions revealed via vertical strain. Applied Physics Letters, 2019, 114, 252901.  | 3.3 | 5         |
| 13 | Improved electrical and magnetic transport properties of La <sub>0.8</sub> Ba <sub>0.2</sub> MnO <sub>3</sub> thin films by oxygen annealing. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.                           | 5.1 | 4         |
| 14 | Giant bipolar unidirectional photomagnetoconductance. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .   | 7.1 | 4         |
| 15 | Oxygen pressure dependent electroresistance in La <sub>0.9</sub> Sr <sub>0.1</sub> MnO <sub>3</sub> thin films grown by laser molecular beam epitaxy. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 232-236. | 0.2 | 3         |
| 16 | Magnetoconductance and photoelectrical properties of electron gases at SrTiO <sub>3</sub> (100) surface. Journal Physics D: Applied Physics, 2019, 52, 375303.  | 2.8 | 3         |
| 17 | Rewritable Optical Memory Based on Sign Switching of Magnetoconductance. Advanced Electronic Materials, 2020, 6, 1900701.   | 5.1 | 3         |
| 18 | A comparison study of electrical and photoelectrical properties of electron gases at (100), (110) and (111) LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. Journal Physics D: Applied Physics, 2020, 53, 095303.                  | 2.8 | 3         |

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|----|---|-----|-----------|
| 19 | Time-dependent resistance of quasi-two-dimensional electron gas on KTaO <sub>3</sub> . Applied Physics Letters, 2020, 117, .  | 3.3 | 3         |
| 20 | Fabrication of atomically smooth SrRuO <sub>3</sub> thin films by laser molecular beam epitaxy. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 745-749.   | 0.2 | 2         |
| 21 | Mixed Dimensional Te Nanowire/Te Nanosheet Heterojunctions with 2D Electron Gas on SrTiO <sub>3</sub> for Diode Applications. ACS Applied Nano Materials, 0, , .  | 5.0 | 2         |
| 22 | Fluorination-enhanced photoconductive effect in a wide band gap Ca <sub>3</sub> Ti <sub>2</sub> O <sub>7-x</sub> F <sub>x</sub> thin films. Materials Research Express, 2020, 7, 126402.  | 1.6 | 2         |
| 23 | Room temperature large photoresponse in p-n heterojunction composed of WSe <sub>2</sub> and 2D electron gas at LaAlO <sub>3</sub> /KTaO <sub>3</sub> interface. Applied Physics Letters, 2021, 119, .   | 3.3 | 2         |
| 24 | EFFECTS OF ELECTRODE RESISTANCE ON THE DIELECTRIC BEHAVIORS OF Au/BaxSr <sub>1-<math>\hat{x}</math></sub> TiO <sub>3</sub> /La <sub>1.1</sub> Sr <sub>0.9</sub> NiO <sub>4</sub> CAPACITORS. Surface Review and Letters, 2016, 23, 1650028.   | 1.1 | 1         |
| 25 | Excellent rectifying characteristics and large photoresponse in lateral heterojunction composed of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\hat{t}</math></sub> and quasi-two-dimensional electron gas at SrTiO <sub>3</sub> surface. Journal Physics D: Applied Physics, 2020, 53, 405304. | 2.8 | 1         |
| 26 | Oxygen-vacancy-induced atomic and electronic reconstructions in magnetic Sr(Ti <sub>0.875</sub> Fe <sub>0.125</sub> )O <sub>3-<math>\hat{t}</math></sub> thin films. Materials Research Express, 2020, 7, 076105.   | 1.6 | 1         |
| 27 | Bias-tunable persistent photoconductivity for photoelectric memory in van der Waals heterojunctions of black phosphorus/2D electron gas on SrTiO <sub>3</sub> . Applied Physics Letters, 2022, 120, 061107.   | 3.3 | 1         |
| 28 | Electric-field-induced photoconductivity and resistance switching in Fe-doped amorphous carbon/PMN-PT heterostructures. Materials Research Express, 2019, 6, 015203.  | 1.6 | 0         |
| 29 | Electrical property modulation of Au/Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> structure by continuous composition spread Mn doping. Ceramics International, 2022, , .   | 4.8 | 0         |