

# Congkang Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

510  
citations

933447

10  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

624  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A simple and novel route for the preparation of ZnO nanorods. Solid State Communications, 2002, 122, 175-179.   | 1.9 | 220       |
| 2  | Electrical properties and near band edge emission of Bi-doped ZnO nanowires. Applied Physics Letters, 2007, 90, 083113.   | 3.3 | 52        |
| 3  | Temperature-Controlled Growth of ZnO Nanowires and Nanoplates in the Temperature Range 250~300 Å°C. Journal of Physical Chemistry B, 2006, 110, 21741-21746.  | 2.6 | 33        |
| 4  | Low-temperature (¼250Å°C) route to lateral growth of ZnO nanowires. Applied Physics Letters, 2005, 87, 253104.  | 3.3 | 24        |
| 5  | Cu-doping induced ferromagnetism in ZnO nanowires. Journal of Chemical Physics, 2009, 130, 124711.  | 3.0 | 24        |
| 6  | Fabrication and photoluminescence of ZnO hierarchical nanostructures containing Bi2O3. Nanotechnology, 2006, 17, 60-64.   | 2.6 | 21        |
| 7  | The growth and optical properties of ZnO nanowires at the junctions of nanowalls. Solid State Communications, 2004, 132, 837-840.   | 1.9 | 20        |
| 8  | Ferromagnetic ZnO bicrystal nanobelts fabricated in low temperature. Applied Physics Letters, 2006, 89, 093117.   | 3.3 | 19        |
| 9  | The selectively manipulated growth of crystalline ZnO nanostructures. Nanotechnology, 2005, 16, 2104-2110.  | 2.6 | 17        |
| 10 | Doping of Si into GaN Nanowires and Optical Properties of Resulting Composites. Journal of Nanoscience and Nanotechnology, 2005, 5, 530-535.  | 0.9 | 15        |
| 11 | Electrical Behavior of Ferromagnetic BiMn-Codoped ZnO Bicrystal Nanobelts to Pt Contacts. Journal of Physical Chemistry C, 2007, 111, 12490-12494.  | 3.1 | 11        |
| 12 | A Model for Adsorption and Diffusion in Water Vapor Barrier Films. Physica Status Solidi (B): Basic Research, 2021, 258, 2000609.   | 1.5 | 10        |
| 13 | Ultrathin flexible linear-piezoelectric ZnO thin film actuators: Tuning the piezoelectric responses by in-plane epitaxial strain. Applied Surface Science, 2022, 599, 153969.   | 6.1 | 10        |
| 14 | Towards high-performance linear piezoelectrics: Enhancing the piezoelectric response of zinc oxide thin films through epitaxial growth on flexible substrates. Applied Surface Science, 2021, 556, 149798.  | 6.1 | 9         |
| 15 | Vertically aligned ZnO nanodisks and their uses in bulk heterojunction solar cells. Journal of Renewable and Sustainable Energy, 2010, 2, 053101.   | 2.0 | 6         |
| 16 | Growth of <i>c</i> -plane and <i>m</i> -plane aluminium-doped zinc oxide thin films: epitaxy on flexible substrates with cubic-structure seeds. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 233-240. | 1.1 | 5         |
| 17 | Equilibrium segregation in the stressed Ni(111)(Au) nano-films on inert substrate. Journal of Materials Science, 2021, 56, 6217-6226.   | 3.7 | 4         |
| 18 | Understanding the kinetics of Fe subsurface dissolution and surface segregation upon annealing Fe on Pd(111) in vacuum/oxygen environment. Applied Physics A: Materials Science and Processing, 2022, 128, 1.   | 2.3 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Mediated ferromagnetism in ZnO nanorods with heavily codoped MnFe. AIP Advances, 2020, 10, 055019.   | 1.3 | 2         |
| 20 | Quantification of High Resolution Pulsed RF GDOES Depth Profiles for Mo/B4C/Si Nano-Multilayers. Coatings, 2021, 11, 612.  | 2.6 | 2         |
| 21 | Inkjet printing of palladium source and drain electrodes on individual single-wall carbon nanotubes to fabricate field effect transistors. RSC Advances, 2013, 3, 23658. | 3.6 | 1         |
| 22 | Grain boundary diffusion in bilayered Ag/Cu thin film under diffusion-induced and intrinsic stresses. Physica Scripta, 2021, 96, 055706.                                 | 2.5 | 1         |
| 23 | Kinetics of surface and interface segregation in stressed nano-films on inert substrate. Journal of Applied Physics, 2021, 129, 185305.                                  | 2.5 | 1         |
| 24 | Low-Temperature Solution Synthesis of Zinc Oxide Nanotubes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2013, 43, 1501-1505.         | 0.6 | 0         |
| 25 | Controllable lateral growth and electrical properties of nonpolar ZnO nanowires. AIP Advances, 2020, 10, .   | 1.3 | 0         |
| 26 | Monotectic growth evolution and raman scattering of self-assembled ZnO hierarchical micro-nanostructures. Materials Research Express, 2020, 7, 025014.                   | 1.6 | 0         |
| 27 | Thermodynamics and kinetics of surface/interface segregation in the stressed ultrathin alloy film on inert substrate. Applied Surface Science, 2021, 562, 150050.        | 6.1 | 0         |