

# Zhuangchun Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

5,147  
citations

257450

24  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

8016  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Transparent, Conductive Carbon Nanotube Films. <i>Science</i> , 2004, 305, 1273-1276.  | 12.6 | 2,797     |
| 2  | Nanostructured Fe <sub>3</sub> O <sub>4</sub> /SWNT Electrode: Binder-Free and High-Rate Li-Ion Anode. <i>Advanced Materials</i> , 2010, 22, E145-9.   | 21.0 | 556       |
| 3  | Effect of Al <sub>2</sub> O <sub>3</sub> Coating on Stabilizing LiNi <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathodes. <i>Chemistry of Materials</i> , 2015, 27, 6146-6154.                      | 6.7  | 185       |
| 4  | Ferroelectric and dielectric properties of Li-doped ZnO thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 561-565.                                    | 2.3  | 171       |
| 5  | Carbon nanotube films for room temperature hydrogen sensing. <i>Nanotechnology</i> , 2005, 16, 2218-2221.  | 2.6  | 143       |
| 6  | Electronic Junction Control in a Nanotube-Semiconductor Schottky Junction Solar Cell. <i>Nano Letters</i> , 2010, 10, 5001-5005.   | 9.1  | 135       |
| 7  | Carbon-Nanotube-Enabled Vertical Field Effect and Light-Emitting Transistors. <i>Advanced Materials</i> , 2008, 20, 3605-3609.   | 21.0 | 107       |
| 8  | Carbon nanotube modified air-cathodes for electricity production in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7465-7469.  | 7.8  | 102       |
| 9  | Single Wall Carbon Nanotubes for p-Type Ohmic Contacts to GaN Light-Emitting Diodes. <i>Nano Letters</i> , 2004, 4, 911-914.   | 9.1  | 100       |
| 10 | Extremely Durable High-Rate Capability of a LiNi <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathode Enabled with Single-Walled Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2011, 1, 58-62. | 19.5 | 74        |
| 11 | Low-field magnetoresistance in nanosized La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /Pr <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> composites. <i>Applied Physics Letters</i> , 2001, 78, 1110-1112.      | 3.3  | 72        |
| 12 | Resistivity scaling in single-walled carbon nanotube films patterned to submicron dimensions. <i>Applied Physics Letters</i> , 2006, 89, 093107.   | 3.3  | 53        |
| 13 | Dual <i>n</i> - and <i>p</i> -Type Dopable Electrochromic Devices Employing Transparent Carbon Nanotube Electrodes. <i>Chemistry of Materials</i> , 2009, 21, 5539-5547.   | 6.7  | 48        |
| 14 | Nanolithographic patterning of transparent, conductive single-walled carbon nanotube films by inductively coupled plasma reactive ion etching. <i>Journal of Vacuum Science &amp; Technology B</i> , 2007, 25, 348.        | 1.3  | 47        |
| 15 | A high-capacity dual-electrolyte aluminum/air electrochemical cell. <i>RSC Advances</i> , 2014, 4, 30857-30863.  | 3.6  | 44        |
| 16 | Towards understanding the rate capability of layered transition metal oxides LiNi <sub>y</sub> Mn <sub>y</sub> Co <sub>1-2y</sub> O <sub>2</sub> . <i>Journal of Power Sources</i> , 2014, 268, 106-112.                   | 7.8  | 41        |
| 17 | Partially crystallized La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> thin films by laser ablation and their enhanced low-field magnetoresistance. <i>Applied Physics Letters</i> , 2000, 76, 2286-2288.             | 3.3  | 39        |
| 18 | Metal-semiconductor-metal photodetectors based on single-walled carbon nanotube film-GaAs Schottky contacts. <i>Journal of Applied Physics</i> , 2008, 103, 114315.  | 2.5  | 37        |

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|----|--|-----|-----------|
| 19 | Enhanced oxygen reduction activity on surface-decorated perovskite La <sub>0.6</sub> Ni <sub>0.4</sub> FeO <sub>3</sub> cathode for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2015, 163, 204-212.   | 5.2 | 34        |
| 20 | Ultralow thermal conductivity and thermoelectric properties of carbon nanotubes doped Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> + $\delta$ . <i>Ceramics International</i> , 2015, 41, 961-965.   | 4.8 | 29        |
| 21 | Binder-free Nanoparticulate Coating of a Polyethylene Separator via a Reactive Atmospheric Pressure Plasma for Lithium-ion Batteries with Improved Performances. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800579.  | 3.7 | 28        |
| 22 | Effect of oxygen nonstoichiometry on electrotransport and low-field magnetotransport property of polycrystalline La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> $\delta$ thin films. <i>Physical Review B</i> , 2000, 62, 8976-8982.   | 3.2 | 27        |
| 23 | Comparative study of laser ablation techniques for fabricating nanocrystalline SnO <sub>2</sub> thin films for sensors. <i>Materials Letters</i> , 1996, 28, 369-372.  | 2.6 | 25        |
| 24 | Pulsed laser deposition of (001) textured LiNbO <sub>3</sub> films on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> /Si substrate. <i>Applied Surface Science</i> , 1999, 141, 197-200.   | 6.1 | 24        |
| 25 | Epitaxial growth of optical waveguiding LiTaO <sub>3</sub> films by excimer laser ablation. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 5409-5414.   | 1.8 | 18        |
| 26 | Growth of LiNbO <sub>3</sub> optical waveguide films by excimer laser ablation. <i>Materials Letters</i> , 1994, 20, 35-38.  | 2.6 | 17        |
| 27 | Pulsed laser deposition of films on fused silica in waveguide form. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 3185-3187.   | 2.8 | 17        |
| 28 | Origin of Bonding between the SWCNT and the Fe <sub>3</sub> O <sub>4</sub> (001) Surface and the Enhanced Electrical Conductivity. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2853-2858.  | 4.6 | 17        |
| 29 | Epitaxial growth of optical Ba <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> waveguide film by pulsed laser deposition. <i>Applied Physics Letters</i> , 1994, 65, 1995-1997.   | 3.3 | 16        |
| 30 | Pulsed laser deposition of PZT/LSCO heterostructure for integrated ferroelectric devices. <i>Solid State Communications</i> , 1994, 91, 671-673.   | 1.9 | 15        |
| 31 | In situ electrical-field-induced growth and properties of Bi <sub>3</sub> TiNbO <sub>9</sub> ferroelectric thin films. <i>Applied Physics Letters</i> , 2001, 79, 4559-4561.   | 3.3 | 13        |
| 32 | Electronic properties of metal-semiconductor and metal-oxide-semiconductor structures composed of carbon nanotube film on silicon. <i>Applied Physics Letters</i> , 2010, 97, 233105.  | 3.3 | 12        |
| 33 | Effects of substrate temperature on the growth of oriented LiNbO <sub>3</sub> thin films by pulsed laser deposition. <i>Materials Letters</i> , 1998, 34, 332-335.   | 2.6 | 11        |
| 34 | Completely $\delta$ -textured growth and enhanced ferroelectric properties of Pb(Ta <sub>0.05</sub> Zr <sub>0.48</sub> Ti <sub>0.47</sub> )O <sub>3</sub> films on Pt/TiO <sub>2</sub> /SiO <sub>2</sub> /Si(001) using SrRuO <sub>3</sub> buffer layer. <i>Applied Physics Letters</i> , 1999, 75, 3396-3398. | 3.3 | 10        |
| 35 | Pulsed-laser deposition of Ta-doped PZT ferroelectric films for memory applications using conductive oxide La <sub>0.25</sub> Sr <sub>0.75</sub> CoO <sub>3</sub> and SrRuO <sub>3</sub> electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S659-S661.                         | 2.3 | 10        |
| 36 | A dual-electrolyte aluminum/air microfluidic cell with enhanced voltage, power density and electrolyte utilization via a novel composite membrane. <i>Journal of Power Sources</i> , 2020, 478, 228960.  | 7.8 | 10        |

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|----|---|-----|-----------|
| 37 | Four regions of the propagation of the plume formed in pulsed laser deposition by optical-wavelength-sensitive CCD photography. <i>Thin Solid Films</i> , 2000, 375, 233-237.   | 1.8 | 8         |
| 38 | Excimer laser ablating preparation of Ba <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> optical waveguiding films on (001) KTiOP <sub>4</sub> substrates. <i>Solid State Communications</i> , 1995, 93, 479-482.                      | 1.9 | 7         |
| 39 | Characteristics of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films prepared by pulsed laser deposition for non-volatile memory applications. <i>Thin Solid Films</i> , 2000, 375, 200-204.                                | 1.8 | 7         |
| 40 | Observations of stress accumulation and relaxation in solid-state lithiation and delithiation of suspended Si microcantilevers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2156-2168.           | 1.8 | 7         |
| 41 | A Monte Carlo approach of phase separation in binary alloys with mobile vacancies. <i>Materials Letters</i> , 1995, 22, 23-27.  | 2.6 | 6         |
| 42 | Metallic/Semiconducting Nanotube Separation and Ultra-thin, Transparent Nanotube Films. <i>AIP Conference Proceedings</i> , 2004, , .   | 0.4 | 5         |
| 43 | Adhesive Hybrid SiO <sub>2</sub> .O <sub>1</sub> C <sub>0.23</sub> Hx Nanoparticulate Coating on Polyethylene (PE) Separator by Roll-to-Roll Atmospheric Pressure Plasma. <i>Coatings</i> , 2019, 9, 190.                             | 2.6 | 5         |
| 44 | Artificial Cathode-Electrolyte Interphases on Ni-Rich LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> by Carbon Nanotubes Modified LiF for Enhanced Cycleability. <i>Electrochemistry</i> , 2021, 89, 296-302. |     | 5         |
| 45 | A study of dynamics and chemical reactions in laser-ablated PbTiO <sub>3</sub> plume by optical-wavelength-sensitive CCD photography. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 331-334.                 | 2.3 | 4         |
| 46 | Improved Electrochemical Performance of Carbon-Coated LiFeBO <sub>3</sub> Nanoparticles for Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 7186-7190.  | 0.9 | 4         |
| 47 | Preparation of optical Ba <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> waveguide films by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 216-219.   | 2.8 | 3         |
| 48 | Formation of the patterned nanocrystalline Si by pulsed-laser interference crystallization of a-Si:H thin films. , 1998, , .  |     | 1         |
| 49 | Q-dependence of dynamic hysteresis in Potts spin lattice: Monte-Carlo simulation. <i>Solid State Communications</i> , 2000, 115, 383-388.   | 1.9 | 1         |
| 50 | Geometry Dependent Resistivity in Single-walled Carbon Nanotube Films Patterned Down to Submicron Dimensions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 963, 1.  | 0.1 | 0         |
| 51 | Metal-Semiconductor-Metal (MSM) Photodetectors Based on Single-walled Carbon Nanotube Film-GaAs Schottky Contacts. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1057, 1.  | 0.1 | 0         |
| 52 | Metal-semiconductor-metal (MSM) photodetectors based on single-walled carbon nanotube film-silicon Schottky contacts. <i>Proceedings of SPIE</i> , 2008, , .  | 0.8 | 0         |
| 53 | High-Capacity and High-Rate Anodes for Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2010, , .   | 0.0 | 0         |