# Jun-Li Song

List of Publications by Year
in descending order



| 74 | 4,161 | 87888 38 | 114465 63 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 74 | 74 | 74 | 5197 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Selfâ€Healing Polymer Electrolyte for Dendriteâ€Free Li Metal Batteries with Ultraâ€Highâ€Voltage Niâ€Rich Layered Cathodes. Small, 2022, 18, e2200891. | 10.0 | 23 |
| 2 | Proof of Concept for Operando Infrared Spectroscopy Investigation of Light-Excited Metal Oxide-Based Gas Sensors. Journal of Physical Chemistry Letters, 2022, 13, 3631-3635. | 4.6 | 2 |
| 3 | A Pressure Responsive Artificial Interphase Layer of BaTiO<sub>3</sub> against Dendrite Growth for Stable Lithium Metal Anodes. Batteries and Supercaps, 2022, 5, . | 4.7 | 3 |
| 4 | A Bioâ€Inspired Neuromorphic Sensory System. Advanced Intelligent Systems, 2022, 4, . | 6.1 | 18 |
| 5 | Printable Zinc-Ion Hybrid Micro-Capacitors for Flexible Self-Powered Integrated Units. Nano-Micro Letters, 2021, 13, 19. | 27.0 | 81 |
| 6 | Inorganic Solid Electrolytes for Allâ€Solidâ€State Sodium Batteries: Fundamentals and Strategies for Battery Optimization. Advanced Functional Materials, 2021, 31, 2008165. | 14.9 | 55 |
| 7 | Hybrid electrolytes with an ultrahigh Li-ion transference number for lithium-metal batteries with fast and stable charge/discharge capability. Journal of Materials Chemistry A, 2021, 9, 18239-18246. | 10.3 | 25 |
| 8 | Integrated interface between composite electrolyte and cathode with low resistance enables ultra-long cycle-lifetime in solid-state lithium-metal batteries. Science China Chemistry, 2021, 64, 673-680. | 8.2 | 16 |
| 9 | Memristive Devices with Multiple Resistance States Based on the Migration of Protons in Î±â€MoO<sub>3</sub>/SrCoO<sub>2.5</sub> Stacks. Advanced Electronic Materials, 2021, 7, 2001243. | 5.1 | 5 |
| 10 | Ultravioletâ€Cured Semiâ€Interpenetrating Network Polymer Electrolytes for Highâ€Performance Quasiâ€Solidâ€State Lithium Metal Batteries. Chemistry - A European Journal, 2021, 27, 7773-7780. | 3.3 | 8 |
| 11 | An artificial olfactory inference system based on memristive devices. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 804-813. | 17.3 | 50 |
| 12 | Light-excited chemiresistive sensors integrated on LED microchips. Journal of Materials Chemistry A, 2021, 9, 16545-16553. | 10.3 | 7 |
| 13 | Multi-gate memristive synapses realized with the lateral heterostructure of 2D WSe<sub>2</sub> and WO<sub>3</sub>. Nanoscale, 2020, 12, 380-387. | 5.6 | 47 |
| 14 | Flexible and transparent sensors for ultra-low NO<sub>2</sub> detection at room temperature under visible light illumination. Journal of Materials Chemistry A, 2020, 8, 14482-14490. | 10.3 | 39 |
| 15 | Artificial Intelligence to Power the Future of Materials Science and Engineering. Advanced Intelligent Systems, 2020, 2, 2070042. | 6.1 | 3 |
| 16 | Artificial Intelligence to Power the Future of Materials Science and Engineering. Advanced Intelligent Systems, 2020, 2, 1900143. | 6.1 | 75 |
| 17 | Electroformingâ€Free Artificial Synapses Based on Proton Conduction in Î±â€MoO 3 Films. Advanced Electronic Materials, 2020, 6, 1901290. | 5.1 | 14 |
| 18 | In situ thermally polymerized solid composite electrolytes with a broad electrochemical window for all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 3892-3900. | 10.3 | 59 |

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|---|---|---|---|
| 19 | Artificial Neural Networks Based on Memristive Devices: From Device to System. Advanced Intelligent Systems, 2020, 2, 2000149. | 6.1 | 39 |
| 20 | A New Lithiumâ€Ion Conductor LiTaSiO<sub>5</sub>: Theoretical Prediction, Materials Synthesis, and Ionic Conductivity. Advanced Functional Materials, 2019, 29, 1904232. | 14.9 | 15 |
| 21 | Three-Dimensional Garnet Framework-Reinforced Solid Composite Electrolytes with High Lithium-Ion Conductivity and Excellent Stability. ACS Applied Materials & Interfaces, 2019, 11, 26920-26927. | 8.0 | 87 |
| 22 | Solid Electrolytes: A New Lithiumâ€Ion Conductor LiTaSiO<sub>5</sub>: Theoretical Prediction, Materials Synthesis, and Ionic Conductivity (Adv. Funct. Mater. 37/2019). Advanced Functional Materials, 2019, 29, 1970253. | 14.9 | 4 |
| 23 | MOF-derived nanoporous multifunctional fillers enhancing the performances of polymer electrolytes for solid-state lithium batteries. Journal of Materials Chemistry A, 2019, 7, 2653-2659. | 10.3 | 160 |
| 24 | Hierarchically-structured MnFe2O4 nanospheres for highly sensitive detection of NO2. Solid State Ionics, 2019, 336, 102-109. | 2.7 | 11 |
| 25 | Silverâ€Quantumâ€Dotâ€Modified MoO<sub>3</sub> and MnO<sub>2</sub> Paperâ€Like Freestanding Films for Flexible Solidâ€State Asymmetric Supercapacitors. Small, 2019, 15, e1805235. | 10.0 | 79 |
| 26 | Structure and magnetic properties of highly oriented LaBaCo2O5+Î´ films deposited on Si wafers with Pt/Ti buffer layer. Physical Chemistry Chemical Physics, 2019, 21, 22390-22395. | 2.8 | 1 |
| 27 | Quasiâ€Hodgkinâ€“Huxley Neurons with Leaky Integrateâ€andâ€Fire Functions Physically Realized with Memristive Devices. Advanced Materials, 2019, 31, e1803849. | 21.0 | 87 |
| 28 | Artificial Neurons: Quasiâ€Hodgkinâ€“Huxley Neurons with Leaky Integrateâ€andâ€Fire Functions Physically Realized with Memristive Devices (Adv. Mater. 3/2019). Advanced Materials, 2019, 31, 1970020. | 21.0 | 0 |
| 29 | Bienenstock, Cooper, and Munro Learning Rules Realized in Secondâ€Order Memristors with Tunable Forgetting Rate. Advanced Functional Materials, 2019, 29, 1807316. | 14.9 | 60 |
| 30 | Nanostructured Metalâ€“Organic Framework (MOF)â€Derived Solid Electrolytes Realizing Fast Lithium Ion Transportation Kinetics in Solidâ€State Batteries. Small, 2019, 15, e1804413. | 10.0 | 93 |
| 31 | In Situ Formed Shields Enabling Li<sub>2</sub>CO<sub>3</sub>-Free Solid Electrolytes: A New Route to Uncover the Intrinsic Lithiophilicity of Garnet Electrolytes for Dendrite-Free Li-Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 898-905. | 8.0 | 147 |
| 32 | LaFeO3 porous hollow micro-spindles for NO2 sensing. Ceramics International, 2019, 45, 5240-5248. | 4.8 | 25 |
| 33 | Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS<sub>2</sub>. Small, 2018, 14, e1800079. | 10.0 | 224 |
| 34 | Memristive Synapses with Photoelectric Plasticity Realized in ZnO<sub>1â€“x</sub>/AlO<sub>y</sub> Heterojunction. ACS Applied Materials & Interfaces, 2018, 10, 6463-6470. | 8.0 | 120 |
| 35 | NO2 sensing properties of SmFeO3 porous hollow microspheres. Sensors and Actuators B: Chemical, 2018, 265, 443-451. | 7.8 | 41 |
| 36 | Synaptic Suppression Tripletâ€STDP Learning Rule Realized in Secondâ€Order Memristors. Advanced Functional Materials, 2018, 28, 1704455. | 14.9 | 183 |

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|---|---|---|---|
| 37 | Detecting low concentration of H2S gas by BaTiO3 nanoparticle-based sensors. Sensors and Actuators B: Chemical, 2017, 238, 16-23. | 7.8 | 48 |
| 38 | Molybdenum trioxide nanopaper as a dual gas sensor for detecting trimethylamine and hydrogen sulfide. RSC Advances, 2017, 7, 3680-3685. | 3.6 | 52 |
| 39 | Electrospun Ni-doped SnO2 nanofiber array for selective sensing of NO2. Sensors and Actuators B: Chemical, 2017, 244, 509-521. | 7.8 | 72 |
| 40 | Origin of the low grain boundary conductivity in lithium ion conducting perovskites: Li<sub>3x</sub>La<sub>0.67â”x</sub>TiO<sub>3</sub>. Physical Chemistry Chemical Physics, 2017, 19, 5880-5887. | 2.8 | 100 |
| 41 | Hierarchical flowerlike WO3 nanostructures assembled by porous nanoflakes for enhanced NO gas sensing. Sensors and Actuators B: Chemical, 2017, 246, 225-234. | 7.8 | 57 |
| 42 | Characteristics and sensing properties of CO gas sensors based on LaCo 1â”x Fe x O 3 nanoparticles. Solid State Ionics, 2017, 303, 97-102. | 2.7 | 19 |
| 43 | Single crystalline SrTiO3 as memristive model system: From materials science to neurological and psychological functions. Journal of Electroceramics, 2017, 39, 210-222. | 2.0 | 14 |
| 44 | Pavlovian conditioning demonstrated with neuromorphic memristive devices. Scientific Reports, 2017, 7, 713. | 3.3 | 49 |
| 45 | Garnet-Type Fast Li-Ion Conductors with High Ionic Conductivities for All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2017, 9, 12461-12468. | 8.0 | 179 |
| 46 | Gallium-Doped Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> Garnet-Type Electrolytes with High Lithium-Ion Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 1542-1552. | 8.0 | 266 |
| 47 | Behavioral Plasticity Emulated with Lithium Lanthanum Titanateâ€Based Memristive Devices: Habituation. Advanced Electronic Materials, 2017, 3, 1700046. | 5.1 | 19 |
| 48 | Hierarchical and Hollow Fe<sub>2</sub>O<sub>3</sub> Nanoboxes Derived from Metalâ€“Organic Frameworks with Excellent Sensitivity to H<sub>2</sub>S. ACS Applied Materials & Interfaces, 2017, 9, 29669-29676. | 8.0 | 118 |
| 49 | Bio-inspired high-performance solid-state supercapacitors with the electrolyte, separator, binder and electrodes entirely from kelp. Journal of Materials Chemistry A, 2017, 5, 25282-25292. | 10.3 | 85 |
| 50 | Hierarchical porous microspheres of activated carbon with a high surface area from spores for electrochemical double-layer capacitors. Journal of Materials Chemistry A, 2016, 4, 15968-15979. | 10.3 | 80 |
| 51 | 3D Porous Hierarchical Microspheres of Activated Carbon from Nature through Nanotechnology for Electrochemical Double-Layer Capacitors. ACS Sustainable Chemistry and Engineering, 2016, 4, 6463-6472. | 6.7 | 51 |
| 52 | Mimicking the brain functions of learning, forgetting and explicit/implicit memories with SrTiO<sub>3</sub>-based memristive devices. Physical Chemistry Chemical Physics, 2016, 18, 31796-31802. | 2.8 | 36 |
| 53 | Synaptic Metaplasticity Realized in Oxide Memristive Devices. Advanced Materials, 2016, 28, 377-384. | 21.0 | 210 |
| 54 | Single crystalline flowerlike Î±-MoO3 nanorods and their application as anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 687, 79-86. | 5.5 | 44 |

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|---|---|---|---|
| 55 | Lotus pollen derived 3-dimensional hierarchically porous NiO microspheres for NO2 gas sensing. Sensors and Actuators B: Chemical, 2016, 227, 554-560. | 7.8 | 77 |
| 56 | Near room temperature CO sensing by mesoporous LaCoO3 nanowires functionalized with Pd nanodots. Sensors and Actuators B: Chemical, 2016, 222, 517-524. | 7.8 | 44 |
| 57 | Oxygen pump based on stabilized zirconia. Review of Scientific Instruments, 2015, 86, 115103. | 1.3 | 9 |
| 58 | SrTi0.65Fe0.35O3 nanofibers for oxygen sensing. Solid State Ionics, 2015, 278, 26-31. | 2.7 | 11 |
| 59 | NO sensing by single crystalline WO3 nanowires. Sensors and Actuators B: Chemical, 2015, 219, 346-353. | 7.8 | 110 |
| 60 | CO sensing mechanism of LaCoO3. Solid State Ionics, 2015, 272, 155-159. | 2.7 | 17 |
| 61 | Bio-templated fabrication of hierarchically porous WO<sub>3</sub> microspheres from lotus pollens for NO gas sensing at low temperatures. RSC Advances, 2015, 5, 29428-29432. | 3.6 | 31 |
| 62 | LaCoO<sub>3</sub>-based sensors with high sensitivity to carbon monoxide. RSC Advances, 2015, 5, 65668-65673. | 3.6 | 31 |
| 63 | Gigantically enhanced NO sensing properties of WO3/SnO2 double layer sensors with Pd decoration. Sensors and Actuators B: Chemical, 2015, 220, 398-405. | 7.8 | 40 |
| 64 | Effects of potassium iodide (KI) on crystallinity, thermal stability, and electrical properties of polymer blend electrolytes (PVC/PEO:KI). Solid State Ionics, 2015, 278, 260-267. | 2.7 | 57 |
| 65 | Oxygen sensors based on SrTi0.65Fe0.35O3âˆ'Î´ thick film with MgO diffusion barrier for automotive emission control. Sensors and Actuators B: Chemical, 2015, 213, 102-110. | 7.8 | 19 |
| 66 | Ultraviolet photocatalytic degradation of methyl orange by nanostructured TiO<sub>2</sub>/ZnO heterojunctions. Journal of Materials Chemistry A, 2015, 3, 6565-6574. | 10.3 | 141 |
| 67 | Morphology engineering of nanostructured TiO<sub>2</sub> particles. RSC Advances, 2015, 5, 6481-6488. | 3.6 | 5 |
| 68 | Synthesis and characterization of one-dimensional metal oxides: TiO2, CeO2, Y2O3-stabilized ZrO2 and SrTiO3. Ceramics International, 2015, 41, 533-545. | 4.8 | 13 |
| 69 | Insulator-to-semiconductor transition of nanocrystalline BaTiO<sub>3</sub> at temperatures â‰‰200 Â°C. Physical Chemistry Chemical Physics, 2014, 16, 20420-20423. | 2.8 | 6 |
| 70 | Cadmium removal in waste water by nanostructured TiO<sub>2</sub> particles. Journal of Materials Chemistry A, 2014, 2, 13932-13941. | 10.3 | 37 |
| 71 | Determination of electronic and ionic partial conductivities of a grain boundary: method and application to acceptor-doped SrTiO3. Solid State Ionics, 2002, 154-155, 563-569. | 2.7 | 27 |
| 72 | Defect Structure Modification in Zirconia by Alumina. Physica Status Solidi A, 2001, 183, 261-271. | 1.7 | 22 |

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|---|---|---|---|
| 73 | Hydrothermal degradation mechanism of tetragonal Zirconia. Journal of Materials Science, 2001, 36, 3737-3744. | 3.7 | 59 |
| 74 | Singleâ€Ion Magnetostriction in Gd 2 O 3 â€“CeO 2 Solid Solutions. Advanced Functional Materials, 0, , 2110509. | 14.9 | 0 |