

# Jin-Ku Liu

## List of Publications by Year in descending order

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68  
papers

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docs citations

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times ranked

1318  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | An efficient photocatalyst for degradation of various organic dyes: Ag@Ag <sub>2</sub> MoO <sub>4</sub> •AgBr composite. Journal of Hazardous Materials, 2016, 307, 26-35.   | 12.4 | 109       |
| 2  | Controlled synthesis of silver phosphate crystals with high photocatalytic activity and bacteriostatic activity. CrystEngComm, 2012, 14, 8714.   | 2.6  | 75        |
| 3  | Preparation of silver/hydroxyapatite nanocomposite spheres. Powder Technology, 2008, 184, 21-24.   | 4.2  | 56        |
| 4  | A New Complementary Catalyst and Catalytic Mechanism: Ag <sub>2</sub> MoO <sub>4</sub> /Ag/AgBr/GO Heterostructure. Industrial & Engineering Chemistry Research, 2016, 55, 9873-9879.  | 3.7  | 56        |
| 5  | In-situ bonding technology and excellent anticorrosion activity of graphene oxide / hydroxyapatite nanocomposite pigment. Dyes and Pigments, 2019, 160, 109-118.   | 3.7  | 51        |
| 6  | Mass Production, Enhanced Visible Light Photocatalytic Efficiency, and Application of Modified ZnO Nanocrystals by Carbon Dots. Industrial & Engineering Chemistry Research, 2015, 54, 1766-1772.  | 3.7  | 45        |
| 7  | Atmospheric Self-induction Synthesis and Enhanced Visible Light Photocatalytic Performance of Fe <sup>3+</sup> Doped Ag-ZnO Mesocrystals. Industrial & Engineering Chemistry Research, 2014, 53, 13236-13246.                                  | 3.7  | 40        |
| 8  | Thermal perturbation nucleation and growth of silver molybdate nanoclusters by a dynamic template route. CrystEngComm, 2015, 17, 5511-5521.  | 2.6  | 37        |
| 9  | Construction of silver tungstate multilevel sphere clusters by controlling the energy distribution on the crystal surface. CrystEngComm, 2015, 17, 1129-1138.  | 2.6  | 35        |
| 10 | One step self-heating synthesis and their excellent anticorrosion performance of zinc phosphate/benzotriazole composite pigments. Dyes and Pigments, 2017, 141, 74-82.   | 3.7  | 33        |
| 11 | Silver Phosphate Crystal Growth by Screw Dislocation Driven of Dynamic-Template. Crystal Growth and Design, 2013, 13, 4837-4843.   | 3.0  | 30        |
| 12 | The biotoxicity of hydroxyapatite nanoparticles to the plant growth. Journal of Hazardous Materials, 2014, 270, 71-81.   | 12.4 | 28        |
| 13 | Mass preparation and anticorrosion mechanism of highly triple-effective corrosion inhibition performance for co-modified zinc phosphate-based pigments. Dyes and Pigments, 2019, 161, 489-499.   | 3.7  | 28        |
| 14 | Design and preparation of easily recycled Ag <sub>2</sub> WO <sub>4</sub> @ZnO@Fe <sub>3</sub> O <sub>4</sub> ternary nanocomposites and their highly efficient degradation of antibiotics. Journal of Materials Science, 2016, 51, 7793-7802. | 3.7  | 26        |
| 15 | High Degradation Activity and Quantity Production of Aluminum-Doped Zinc Oxide Nanocrystals Modified by Nitrogen Atoms. Industrial & Engineering Chemistry Research, 2014, 53, 2229-2237.  | 3.7  | 25        |
| 16 | Eminently Enhanced Anticorrosion Performance and Mechanisms of X-ZnO (X = C, N, and P) Solid Solutions. Inorganic Chemistry, 2017, 56, 12260-12271.  | 4.0  | 23        |
| 17 | Catalytic performance of gold nanoparticles using different crystallinity HAP as carrier materials. Materials Research Bulletin, 2014, 55, 190-197.  | 5.2  | 21        |
| 18 | Mass preparation and novel visible light photocatalytic activity of C and Ag Co-modified ZnO nanocrystals. Journal of Colloid and Interface Science, 2015, 459, 1-9.   | 9.4  | 20        |

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|----|--|------|-----------|
| 19 | Plasmon-enhanced instantaneous photocatalytic activity of Au@Ag <sub>3</sub> PO <sub>4</sub> heterostructure targeted at emergency treatment of environmental pollution. <i>Journal of Materials Science</i> , 2017, 52, 2495-2510.  | 3.7  | 20        |
| 20 | Multistage Assembled Rubikâ€™s Cube-like Structure and Outstanding Anticorrosion Performance Induced by Magnetic Metal Doping. <i>Chemistry of Materials</i> , 2018, 30, 7296-7305.  | 6.7  | 20        |
| 21 | Design and Application of Ag <sub>3</sub> PO <sub>4</sub> @Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> Z-Scheme Photocatalysts with a Micro-Nano Tube-Cluster Structure for the Co-Degradation of Nitrate and Ammonia in Wastewater. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 18027-18035. | 3.7  | 19        |
| 22 | Controllable preparation and sterilization activity of zinc aluminium oxide nanoparticles. <i>Materials Science and Engineering C</i> , 2012, 32, 680-684.   | 7.3  | 18        |
| 23 | Preparation and optical properties of silver chromate self-assembly necklace structures. <i>Journal of Nanoparticle Research</i> , 2008, 10, 531-535.  | 1.9  | 15        |
| 24 | Production and Photoelectric Activity of P and Al Co-Doped ZnO Nanomaterials. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3708-3714.  | 2.0  | 15        |
| 25 | Controlled synthesis of SrCrO <sub>4</sub> crystals with different morphologies. <i>Crystal Research and Technology</i> , 2007, 42, 211-215.   | 1.3  | 14        |
| 26 | FACILE SYNTHESIS OF HYDROXYLAPATITE NANOSTRUCTURES WITH VARIOUS MORPHOLOGIES. <i>Nano</i> , 2009, 04, 165-170.   | 1.0  | 14        |
| 27 | Oxygen Vacancy Defects and a Field Effect-Mediated ZnO/WO <sub>2.92</sub> Heterojunction for Enhanced Corrosion Resistance. <i>Inorganic Chemistry</i> , 2021, 60, 15390-15403.  | 4.0  | 14        |
| 28 | Mosaic structure effect and superior catalytic performance of AgBr/Ag <sub>2</sub> MoO <sub>4</sub> composite materials. <i>RSC Advances</i> , 2016, 6, 94771-94779.   | 3.6  | 13        |
| 29 | SYNTHESIS OF YTTRIA-STABILIZED CUBIC ZIRCONIA NANOCRYSTALS BY ULTRASONICâ€™MICROWAVE ROUTE. <i>Nano</i> , 2010, 05, 271-277.   | 1.0  | 12        |
| 30 | Enhanced photoelectric properties by the coordinating role of doping and modification. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4850-4859.   | 2.8  | 12        |
| 31 | Photocatalytic activity of silver chromate materials by various synthesis methods. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 650-659.   | 2.4  | 12        |
| 32 | Enhanced Anticorrosion Performance and Mass Preparation of Magnetic Metal-Doped Zinc Oxide Nano Solid Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 10798-10808.   | 3.7  | 12        |
| 33 | Research on correlation between corrosion resistance and photocatalytic activity of molybdenum zinc oxide modified by carbon quantum dots pigments. <i>Dyes and Pigments</i> , 2020, 175, 108148.  | 3.7  | 12        |
| 34 | PREPARATION AND ANTI-CORROSION PERFORMANCE OF ZINC PHOSPHATE NANOCRYSTALS BY ULTRASONICâ€™HYDROTHERMAL SYNERGISTIC ROUTE. <i>Nano</i> , 2014, 09, 1450059.   | 1.0  | 11        |
| 35 | Thermal Perturbation Nucleation and Controllable Growth of Silver Vanadate Crystals by Dynamic Template Route. <i>Crystal Growth and Design</i> , 2017, 17, 4254-4264.   | 3.0  | 10        |
| 36 | Converting CO <sub>2</sub> Hydrogenation Products from Paraffins to Olefins: Modification of Zeolite Surface Properties by a UIO- <i>n</i> Membrane. <i>ACS Catalysis</i> , 2022, 12, 5894-5902.   | 11.2 | 10        |

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|----|--|------|-----------|
| 37 | Mass production and photoelectric performances of P and Al Co-doped ZnO nanocrystals under different cooling post-processes. <i>Journal of Alloys and Compounds</i> , 2015, 648, 438-444.  | 5.5  | 9         |
| 38 | Improving anticorrosion performance of hydroxyapatite via controlling exposed crystal surface and applications. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156290.  | 5.5  | 9         |
| 39 | Self-induced synthesis under neutral conditions and novel visible light photocatalytic activity of Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> polyoxometalate. <i>New Journal of Chemistry</i> , 2021, 45, 9569-9581.   | 2.8  | 9         |
| 40 | Enhancing Corrosion Inhibition Performance of ZnO Solid Solution by Doping Variable-Valence Rare-Earth Element Cerium. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 421-432.   | 3.7  | 9         |
| 41 | FACILE SYNTHESIS OF COPPER NANOPARTICLE CHAINS. <i>Nano</i> , 2007, 02, 31-34.   | 1.0  | 8         |
| 42 | Rapid degradation of unmanageable polycyclic aromatic hydrocarbons by a C-ZnO solid solution nanocatalyst. <i>New Journal of Chemistry</i> , 2018, 42, 4308-4316.  | 2.8  | 8         |
| 43 | Assembly and copper ions detection of highly sensible and stable carbon dots/hydroxyapatite fluorescence probe. <i>Materials Technology</i> , 2019, 34, 674-682.   | 3.0  | 8         |
| 44 | Anticorrosion Performance and Application of a Mixed-Valence Mn <sup>0</sup> <sub>x</sub> Mn <sup>2+</sup> <sub>0.05</sub> Zn <sup>0.95</sup> O Solid Solution Induced by Magnetic Doping. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 22779-22790. | 3.7  | 8         |
| 45 | Gradient Design of Vacancies and Their Positive Correlation with Electrochemical Anticorrosion Protection. <i>Inorganic Chemistry</i> , 2022, 61, 8053-8065.   | 4.0  | 8         |
| 46 | Excellent corrosion resistance of FGO/Zn <sub>2</sub> SiO <sub>4</sub> composite material in epoxy coatings. <i>Progress in Organic Coatings</i> , 2022, 170, 106992.  | 3.9  | 8         |
| 47 | PREPARATION AND CHARACTERIZATION OF ELECTRIC ZAO NANOPARTICLES. <i>Nano</i> , 2010, 05, 215-220.   | 1.0  | 7         |
| 48 | IN SITU PREPARATION AND INHIBITORY ACTIVITY OF HYDROXYAPATITE/SILVER NANOCOMPOSITE. <i>Nano</i> , 2012, 07, 1250050.   | 1.0  | 7         |
| 49 | Light-dependent controlled synthesis and photocatalytic properties of stable Ag <sub>3</sub> nanocrystals. <i>Materials Research Bulletin</i> , 2014, 60, 783-793.   | 5.2  | 7         |
| 50 | Intelligently assembly of W <sub>18</sub> O <sub>49</sub> nanorod clusters with directionally generated oxygen vacancies and excellent electrochemical properties. <i>Nano Research</i> , 2022, 15, 3575-3586.   | 10.4 | 7         |
| 51 | Mass-production route and application of ZnO nanocrystals modified with various elements (Li, Al, N,) <i>Tj ETQq1 1 0,784314 rgBT /Over</i>  | 2.7  | 7         |
| 52 | Construction, enhanced visible-light photocatalytic activity and application of multiple complementary Ag dots decorated onto Ag <sub>2</sub> MoO <sub>4</sub> /AZO hybrid nanocomposite. <i>Research on Chemical Intermediates</i> , 2019, 45, 873-892.                   | 2.7  | 6         |
| 53 | UIO66-membranized SAPO-34 Pt catalyst for enhanced carbon dioxide conversion efficiency. <i>Materials Today Energy</i> , 2021, 21, 100781.   | 4.7  | 6         |
| 54 | Composition design and anticorrosion performance optimization of zinc molybdate pigments. <i>Materials Today Communications</i> , 2021, 28, 102477.  | 1.9  | 6         |

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|----|--|------|-----------|
| 55 | SYNTHESIS OF CALCIUM OXALATE ASSEMBLY STRUCTURE AND CONVERSION. Nano, 2007, 02, 97-102.  | 1.0  | 5         |
| 56 | Induced synthesis and characterisation of Ag and Ag <sub>2</sub> S assembly nanoparticle chains. Journal of Experimental Nanoscience, 2011, 6, 209-216.  | 2.4  | 5         |
| 57 | EFFECTIVE SYNTHESIS AND APPLICATION OF ZAO NANOPARTICLES WITH GOOD DISPERSION. Nano, 2012, 07, 1250017.  | 1.0  | 5         |
| 58 | Assembly and copper ions detection of highly sensible and stable hydroxyapatite nanocomposite fluorescence probe. Micro and Nano Letters, 2014, 9, 127-131.  | 1.3  | 5         |
| 59 | Surface coordination and excellent anticorrosion performance of strontiumapatite nanocomposite. Journal of Industrial and Engineering Chemistry, 2019, 80, 656-666.  | 5.8  | 5         |
| 60 | Improved anticorrosion performance of mixed valence Mn-modified ZnO dilute magnetic solid solution with multilevel self-assembled network structure. Nano Research, 2022, 15, 6590-6600.                                 | 10.4 | 5         |
| 61 | Preparation and Enhanced Catalyst Effect of Assembled Hydroxylapatite Microsphere Chains. Journal of Nanoscience and Nanotechnology, 2012, 12, 1924-1930.  | 0.9  | 4         |
| 62 | Controlled synthesis and characterizations of thermo-stabilized Ag <sub>3</sub> PO <sub>4</sub> crystals. Research on Chemical Intermediates, 2016, 42, 8285-8304.   | 2.7  | 4         |
| 63 | Enhancing Anticorrosion Properties of Micro Nano Zinc Vanadate from Atomic Modulation Supplemented by Light Modification. Industrial & Engineering Chemistry Research, 2021, 60, 10064-10075.                            | 3.7  | 4         |
| 64 | THE CONTROLLED SYNTHESIS AND STERILIZATION PERFORMANCE OF Ag/Au NANOCOMPOSITE CHAINS. Nano, 2012, 07, 1150002.   | 1.0  | 3         |
| 65 | Preparation and characterization of CaCO <sub>3</sub> crystals and CaCO <sub>3</sub> /La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> composited fluorescent materials. Journal of Composite Materials, 2012, 46, 91-97. | 2.4  | 3         |
| 66 | High Anticorrosion Properties due to Electron Spin Polarization of Hydroxyapatite with Point Defects. Industrial & Engineering Chemistry Research, 2022, 61, 4179-4190.  | 3.7  | 2         |
| 67 | The facile synthesis, properties and application of ZAO nanomaterials. Journal of Experimental Nanoscience, 2015, 10, 738-745.   | 2.4  | 1         |
| 68 | Preparation and electrochemical inhibition properties of Ce <sup>3+</sup> -photomodified zinc phosphate materials. New Journal of Chemistry, 2022, 46, 2068-2080.  | 2.8  | 0         |