**Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-Cu2Te**

![Diagram of Cu-filled vacancy and Cu interstitial arrays](image)

*Journal of the American Chemical Society*
DOI: 10.1021/jacs.7b11662

**Expanded Helicenes: A General Synthetic Strategy and Remarkable Supramolecular and Solid-State Behavior**

![Diagram of helicenes](image)

*New, general class of helicenes*
*Divergent, multifold [2+2+n] strategy*

*Homochiral, π-stacked dimer (solution + solid state)*

*Journal of the American Chemical Society*
DOI: 10.1021/jacs.7b10902

**Synthesis and Electronic Structures of Heavy Lanthanide Metallocenium Cations**
1H NMR Spectroscopy of [FeFe] Hydrogenase: Insight into the Electronic Structure of the Active Site

Dealkanative Main Group Couplings across the peri-Gap
Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power
Valence Band Engineering of Layered Bismuth Oxyhalides toward Stable Visible-Light Water Splitting: Madelung Site Potential Analysis

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b11497

NitroxyFluor: A Thiol-Based Fluorescent Probe for Live-Cell Imaging of Nitroxyl

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b11471

Polyplex Micelles with Phenylboronate/Gluconamide Cross-Linking in the Core Exerting Promoted Gene Transfection through Spatiotemporal Responsivity to Intracellular pH and ATP Concentration
Quantum Spin Liquid from a Three-Dimensional Copper-Oxalate Framework
Stable Organic Neutral Diradical via Reversible Coordination

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b11823

Shape Evolution of Biconcave Djurleite Cu_{1.94}S Nanoplatelets Produced from CuInS_{2} Nanoplatelets by Cation Exchange

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b09577
Direct Detection of Multiple Acidic Proton Sites in Zeolite HZSM-5

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b10940

Removal of Nerve Agent Simulants from Water Using Light-Responsive Molecular Baskets

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b11960

Engineering Bifunctional Antibodies with Constant Region Fusion Architectures
Dynamic Ligand Exchange as a Mechanistic Probe in Pd-Catalyzed Enantioselective C–H Functionalization Reactions Using Monoprotected Amino Acid Ligands

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b09641

Journal of the American Chemical Society
Manganese(V) Porphycene Complex Responsible for Inert C–H Bond Hydroxylation in a Myoglobin Matrix

“Double-Cable” Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells

Optical Control of Dopamine Receptors Using a Photoswitchable Tethered Inverse Agonist
Journal of the American Chemical Society
DOI: 10.1021/jacs.7b07659

Nonadditive Interactions Mediated by Water at Chemically Heterogeneous Surfaces: Nonionic Polar Groups and Hydrophobic Interactions

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b08367

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