

Shyama Mandal

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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **A physics informed model for the prediction of surface energies and the shape of metal particles.** *iScience*
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- **Toward Instant Prediction of Metal Adatom Diffusion Barriers for Understanding of Sintering and Catalyst Durability** *JOURNAL OF PHYSICAL CHEMISTRY C*
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2025
- **Crossing the Oxo-Peroxo Wall for Selective Electrochemical Epoxidation.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
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- **Metal-Independent Correlations for Site-Specific Binding Energies of Relevant Catalytic Intermediates.** *JACS Au*
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- **Metal-Independent Correlations for Site-Specific Binding Energies of Relevant Catalytic Intermediates** *JACS AU*
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- **Classification of Adsorbed Hydrocarbons Based on Bonding Configurations of the Adsorbates and Surface Site Stabilities** *ACS CATALYSIS*
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- **Organic additive for the selective C-2-product formation on Cu(100): a density functional theory mechanistic study** *CATALYSIS SCIENCE & TECHNOLOGY*
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