Mukunda Mandal

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Efficient and stable perovskite-silicon tandem solar cells through contact displacement by MgF <i> _x </i>. Science, 2022, 377, 302-306.	6.0	141
2	Mechanistic Insights into the Alternating Copolymerization of Epoxides and Cyclic Anhydrides Using a (Salph)AlCl and Iminium Salt Catalytic System. Journal of the American Chemical Society, 2017, 139, 15222-15231.	6.6	125
3	Site-Selective Copper-Catalyzed Azidation of Benzylic Câ€"H Bonds. Journal of the American Chemical Society, 2020, 142, 11388-11393.	6.6	112
4	Copper-catalysed benzylic Câ€"H coupling with alcohols via radical relay enabled by redox buffering. Nature Catalysis, 2020, 3, 358-367.	16.1	108
5	Enhanced Activity of Heterogeneous Pd(II) Catalysts on Acid-Functionalized Metalâ€"Organic Frameworks. ACS Catalysis, 2019, 9, 5383-5390.	5.5	77
6	Architectural Control of Isosorbide-Based Polyethers via Ring-Opening Polymerization. Journal of the American Chemical Society, 2019, 141, 5107-5111.	6.6	62
7	Mechanisms for Hydrogen-Atom Abstraction by Mononuclear Copper(III) Cores: Hydrogen-Atom Transfer or Concerted Proton-Coupled Electron Transfer?. Journal of the American Chemical Society, 2019, 141, 17236-17244.	6.6	55
8	Mechanism of the Polymerization of rac-Lactide by Fast Zinc Alkoxide Catalysts. Inorganic Chemistry, 2017, 56, 14366-14372.	1.9	37
9	Why So Slow? Mechanistic Insights from Studies of a Poor Catalyst for Polymerization of Îµ-Caprolactone. Inorganic Chemistry, 2017, 56, 725-728.	1.9	20
10	Sterically Induced Ligand Framework Distortion Effects on Catalytic Cyclic Ester Polymerizations. Inorganic Chemistry, 2018, 57, 3451-3457.	1.9	20
11	Computational Prediction and Experimental Verification of Îµ-Caprolactone Ring-Opening Polymerization Activity by an Aluminum Complex of an Indolide/Schiff-Base Ligand. ACS Catalysis, 2019, 9, 885-889.	5.5	20
12	Carboxylate Structural Effects on the Properties and Proton-Coupled Electron Transfer Reactivity of [CuO₂CR]²⁺ Cores. Inorganic Chemistry, 2019, 58, 15872-15879.	1.9	16
13	Spatially resolved fluorescence of caesium lead halide perovskite supercrystals reveals quasi-atomic behavior of nanocrystals. Nature Communications, 2022, 13, 892.	5.8	15
14	Structure and Reactivity of Single-Site Vanadium Catalysts Supported on Metalâ€"Organic Frameworks. ACS Catalysis, 2020, 10, 10051-10059.	5.5	14
15	Mechanism of Initiation Stereocontrol in Polymerization of <i>rac</i>-Lactide by Aluminum Complexes Supported by Indolideâ€"Imine Ligands. Macromolecules, 2020, 53, 1809-1818.	2.2	13
16	Feasibility of Ionization-Mediated Pathway for Ultraviolet-Induced Melanin Damage. Journal of Physical Chemistry B, 2015, 119, 13288-13293.	1.2	12
17	Improvement of Photophysical Properties of CsPbBr₃ and Mn²⁺:CsPb(Br,Cl)₃ Perovskite Nanocrystals by Sr²⁺ Doping for White Light-Emitting Diodes. Journal of Physical Chemistry C, 2022, 126, 11277-11284.	1.5	10
18	Quantum Efficiency Enhancement of Lead-Halide Perovskite Nanocrystal LEDs by Organic Lithium Salt Treatment. ACS Applied Materials & Interfaces, 2022, 14, 28985-28996.	4.0	9

#	Article	IF	Citations
19	Tuning interfacial charge transfer in atomically precise nanographeneâ€“graphene heterostructures by engineering van der Waals interactions. Journal of Chemical Physics, 2022, 156, 074702.	1.2	5
20	Development of a Highly Responsive Organofluorine Temperature Sensor for ¹⁹F Magnetic Resonance Applications. Analytical Chemistry, 2022, 94, 3782-3790.	3.2	4
21	Porphyrin Functionalization of CsPbBrI ₂ /SiO ₂ Coreâ€“Shell Nanocrystals Enhances the Stability and Efficiency in Electroluminescent Devices. Advanced Optical Materials, 2022, 10, 2101945.	3.6	2
22	The Devil is in the Details: Tailoring the Surface Chemistry of Perovskite Nanocrystals for Novel Optoelectronic Devices. , 0, , .		0