

Hossain, Md Delowar

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Rational Design of Graphene-Supported Single Atom Catalysts for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2019, 9, 1803689. | 19.5 | 279 |
| 2 | Reaction mechanism and kinetics for CO ₂ reduction on nickel single atom catalysts from quantum mechanics. <i>Nature Communications</i> , 2020, 11, 2256. | 12.8 | 140 |
| 3 | Synthesis of 2D transition metal dichalcogenides by chemical vapor deposition with controlled layer number and morphology. <i>Nano Convergence</i> , 2018, 5, 26. | 12.1 | 119 |
| 4 | The Potentiality of Rice Husk-Derived Activated Carbon: From Synthesis to Application. <i>Processes</i> , 2020, 8, 203. | 2.8 | 76 |
| 5 | Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , 2020, 3, 1774-1790. | 10.0 | 71 |
| 6 | Highly Reversible Sodiation/Desodiation from a Carbon-Sandwiched SnS ₂ Nanosheet Anode for Sodium Ion Batteries. <i>Nano Letters</i> , 2020, 20, 3844-3851. | 9.1 | 69 |
| 7 | Selenium Edge as a Selective Anchoring Site for Lithium-Sulfur Batteries with MoSe ₂ /Graphene-Based Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19986-19993. | 8.0 | 67 |
| 8 | A stretchable, conformable, and biocompatible graphene strain sensor based on a structured hydrogel for clinical application. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27099-27109. | 10.3 | 61 |
| 9 | Graphitization of low-density amorphous carbon for electrocatalysis electrodes from ReaxFF reactive dynamics. <i>Carbon</i> , 2021, 183, 940-947. | 10.3 | 20 |
| 10 | New Approach to Unveiling Individual Atomic Layers of 2D Materials and Their Heterostructures. <i>Chemistry of Materials</i> , 2018, 30, 1718-1728. | 6.7 | 19 |
| 11 | Revealing the mechanism of DNA passing through graphene and boron nitride nanopores. <i>Nanoscale</i> , 2019, 11, 23438-23448. | 5.6 | 15 |
| 12 | Confinement-Enhanced Rapid Interlayer Diffusion within Graphene-Supported Anisotropic ReSe ₂ Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31147-31154. | 8.0 | 13 |
| 13 | Modular functionalization of crystalline graphene by recombinant proteins: a nanoplatform for probing biomolecules. <i>Nanoscale</i> , 2018, 10, 22572-22582. | 5.6 | 12 |
| 14 | Effects of additives on the morphology and stability of PbO ₂ films electrodeposited on nickel substrate for light weight lead-acid battery application. <i>Journal of Energy Storage</i> , 2020, 27, 101108. | 8.1 | 9 |
| 15 | Effect of Deposition Parameters on the Morphology and Electrochemical Behavior of Lead Dioxide. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 197-205. | 2.2 | 6 |
| 16 | Tellurium-assisted and space-confined growth of graphene single crystals. <i>Carbon</i> , 2021, 173, 54-60. | 10.3 | 5 |