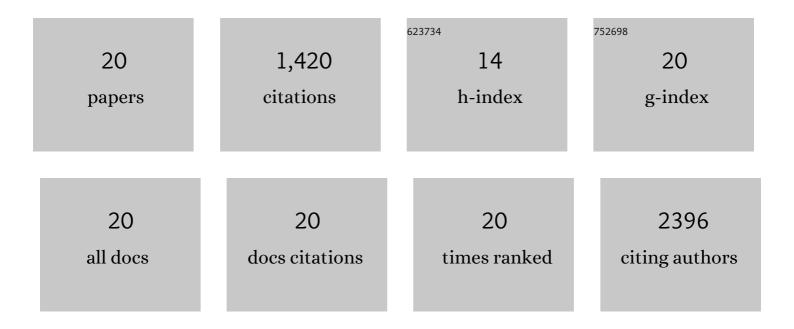
## Ujjal Das

List of Publications by Year in descending order

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Πηνι Πας

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Development of activity–descriptor relationships for supported metal ion hydrogenation catalysts<br>on silica. Polyhedron, 2018, 152, 73-83.  | 2.2  | 11        |
| 2  | Single-site zinc on silica catalysts for propylene hydrogenation and propane dehydrogenation:<br>Synthesis and reactivity evaluation using an integrated atomic layer deposition-catalysis instrument.<br>Journal of Catalysis, 2017, 345, 170-182. | 6.2  | 76        |
| 3  | Supported Aluminum Catalysts for Olefin Hydrogenation. ACS Catalysis, 2017, 7, 689-694.   | 11.2 | 25        |
| 4  | Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation<br>catalysts based on ligand effects in Ga K-edge XANES. Catalysis Science and Technology, 2016, 6,<br>6339-6353.                                     | 4.1  | 90        |
| 5  | Role of Manganese Deposition on Graphite in the Capacity Fading of Lithium Ion Batteries. ACS Applied<br>Materials & Interfaces, 2016, 8, 14244-14251.  | 8.0  | 71        |
| 6  | Effect of Siloxane Ring Strain and Cation Charge Density on the Formation of Coordinately<br>Unsaturated Metal Sites on Silica: Insights from Density Functional Theory (DFT) Studies. ACS<br>Catalysis, 2015, 5, 7177-7185.                        | 11.2 | 38        |
| 7  | Selective propane dehydrogenation with single-site Coll on SiO2 by a non-redox mechanism. Journal of<br>Catalysis, 2015, 322, 24-37.  | 6.2  | 168       |
| 8  | Propylene Hydrogenation and Propane Dehydrogenation by a Single-Site Zn <sup>2+</sup> on Silica<br>Catalyst. ACS Catalysis, 2014, 4, 1091-1098.   | 11.2 | 230       |
| 9  | Structure and Stability of Lithium Superoxide Clusters and Relevance to Li–O <sub>2</sub> Batteries.<br>Journal of Physical Chemistry Letters, 2014, 5, 813-819.  | 4.6  | 74        |
| 10 | Raman Evidence for Late Stage Disproportionation in a Li–O <sub>2</sub> Battery. Journal of Physical<br>Chemistry Letters, 2014, 5, 2705-2710.  | 4.6  | 144       |
| 11 | A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries.<br>Nature Communications, 2013, 4, 2383.  | 12.8 | 379       |
| 12 | Analysis of Hydroxide Sorbents for CO <sub>2</sub> Capture from Warm Syngas. Industrial &<br>Engineering Chemistry Research, 2012, 51, 13473-13481.   | 3.7  | 15        |
| 13 | Predicting PH vibrations of gas phase molecules and surfaceâ€adsorbed species using bond<br>lengthâ€frequency correlations. Journal of Computational Chemistry, 2009, 30, 1872-1881.  | 3.3  | 4         |
| 14 | Interaction of Lewis Acids with Si(100)-2×1 and Ge(100)-2×1 Surfaces. Journal of Physical Chemistry C, 2009, 113, 10146-10150.  | 3.1  | 8         |
| 15 | Al5O4: A Superatom with Potential for New Materials Design. Journal of Chemical Theory and Computation, 2008, 4, 2011-2019.   | 5.3  | 14        |
| 16 | Interaction of water, methanol, and ammonia with AlxOyâ^': A comparative theoretical study of Al5O4â^'<br>versus Al3O3â^'. Journal of Chemical Physics, 2007, 127, 154310.  | 3.0  | 5         |
| 17 | Phosphine Adsorption on the In-Rich InP(001) Surface:  Evidence of Surface Dative Bonds at Room<br>Temperature. Langmuir, 2007, 23, 10109-10115.  | 3.5  | 7         |
| 18 | Al–H bond formation in hydrated aluminum oxide cluster anions. Journal of Chemical Physics, 2006,<br>124, 021101.   | 3.0  | 17        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Addition of NH3 to Al3O3â^'. Journal of Chemical Physics, 2006, 124, 201101.  | 3.0 | 7         |
| 20 | Addition of water to Al5O4â^' determined by anion photoelectron spectroscopy and quantum chemical calculations. Journal of Chemical Physics, 2005, 122, 014313. | 3.0 | 37        |