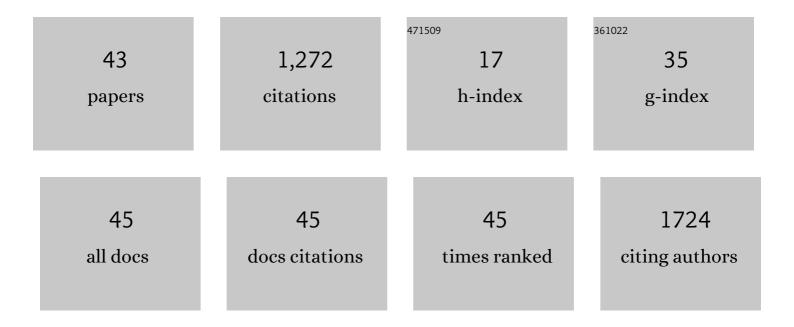
Bhaskar Mondal

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1929245/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Organic super-electron-donors: initiators in transition metal-free haloarene–arene coupling. Chemical Science, 2014, 5, 476-482. | 7.4 | 149 |
| 2 | The Synthesis of Highly Active Iridium(I) Complexes and their Application in Catalytic Hydrogen Isotope Exchange. Advanced Synthesis and Catalysis, 2014, 356, 3551-3562. | 4.3 | 107 |
| 3 | Bio-inspired mechanistic insights into CO2 reduction. Current Opinion in Chemical Biology, 2015, 25, 103-109. | 6.1 | 88 |
| 4 | Nonclassical Single-State Reactivity of an Oxo-Iron(IV) Complex Confined to Triplet Pathways. Journal of the American Chemical Society, 2017, 139, 8939-8949. | 13.7 | 87 |
| 5 | Absorption and emission of light in red emissive carbon nanodots. Chemical Science, 2021, 12, 3615-3626. | 7.4 | 86 |
| 6 | Control in the Rate-Determining Step Provides a Promising Strategy To Develop New Catalysts for CO ₂ Hydrogenation: A Local Pair Natural Orbital Coupled Cluster Theory Study. Inorganic Chemistry, 2015, 54, 7192-7198. | 4.0 | 85 |
| 7 | Electronic Structure Contributions of Non-Heme Oxo-Iron(V) Complexes to the Reactivity. Journal of the American Chemical Society, 2018, 140, 9531-9544. | 13.7 | 72 |
| 8 | Toward Rational Design of 3d Transition Metal Catalysts for CO ₂ Hydrogenation Based on Insights into Hydricity-Controlled Rate-Determining Steps. Inorganic Chemistry, 2016, 55, 5438-5444. | 4.0 | 71 |
| 9 | Overturning Established Chemoselectivities: Selective Reduction of Arenes over Malonates and Cyanoacetates by Photoactivated Organic Electron Donors. Journal of the American Chemical Society, 2013, 135, 10934-10937. | 13.7 | 67 |
| 10 | Practically convenient and industrially-aligned methods for iridium-catalysed hydrogen isotope exchange processes. Organic and Biomolecular Chemistry, 2014, 12, 3598-3603. | 2.8 | 55 |
| 11 | Magnetic Circular Dichroism Evidence for an Unusual Electronic Structure of a Tetracarbene–Oxoiron(IV) Complex. Journal of the American Chemical Society, 2016, 138, 14312-14325. | 13.7 | 52 |
| 12 | Electron Paramagnetic Resonance Signature of Tetragonal Low Spin Iron(V)-Nitrido and -Oxo Complexes Derived from the Electronic Structure Analysis of Heme and Non-Heme Archetypes. Journal of the American Chemical Society, 2019, 141, 2421-2434. | 13.7 | 45 |
| 13 | Reduction of CO ₂ by a masked two-coordinate cobalt(<scp>i</scp>) complex and characterization of a proposed oxodicobalt(<scp>ii</scp>) intermediate. Chemical Science, 2019, 10, 918-929. | 7.4 | 44 |
| 14 | Highâ€Valent Ironâ€Oxo and â€Nitrido Complexes: Bonding and Reactivity. Israel Journal of Chemistry, 2016, 56, 763-772. | 2.3 | 32 |
| 15 | Orthogonal Selectivity in C–H Olefination: Synthesis of Branched Vinylarene with Unactivated Aliphatic Substitution. ACS Catalysis, 2019, 9, 9606-9613. | 11.2 | 30 |
| 16 | Nucleophilic Degradation of Fenitrothion Insecticide and Performance of Nucleophiles: A Computational Study. Journal of Physical Chemistry A, 2012, 116, 2536-2546. | 2.5 | 23 |
| 17 | Hidden ligand noninnocence: A combined spectroscopic and computational perspective. Coordination Chemistry Reviews, 2020, 405, 213115. | 18.8 | 20 |
| 18 | lsomerization and Decomposition of a Model Nerve Agent: A Computational Analysis of the Reaction Energetics and Kinetics of Dimethyl Ethylphosphonate. Journal of Physical Chemistry A, 2010, 114, 10717-10725. | 2.5 | 17 |

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|----|---|-----|-----------|
| 19 | Thermochemistry for silicic acid formation reaction: Prediction of new reaction pathway. Chemical Physics Letters, 2009, 478, 115-119. | 2.6 | 16 |
| 20 | Spectroscopic properties of I2–Rg (Rg=He, Ne, Ar) van der Waals complexes. Chemical Physics Letters, 2011, 505, 81-86. | 2.6 | 15 |
| 21 | Electrocatalytic Water Oxidation Activity of Molecular Copper Complexes: Effect of Redox-Active Ligands. Inorganic Chemistry, 2022, 61, 3152-3165. | 4.0 | 14 |
| 22 | Arsine and its fluoro, chloro derivatives: a computational thermochemical study. Molecular Physics, 2010, 108, 1-11. | 1.7 | 11 |
| 23 | Computational Study on the Growth of Gallium Nitride and a Possible Source of Oxygen Impurity. Journal of Physical Chemistry A, 2010, 114, 5016-5025. | 2.5 | 10 |
| 24 | Towards a quantitative understanding of palladium metal scavenger performance: an electronic structure calculation approach. Dalton Transactions, 2014, 43, 469-478. | 3.3 | 10 |
| 25 | Theoretical study of spectroscopy, interaction, and dissociation of linear and T-shaped isomers of RgClF (RgÂ=ÂHe, Ne, and Ar) van der Waals complexes. Structural Chemistry, 2012, 23, 681-692. | 2.0 | 8 |
| 26 | The association reaction between C2H and 1-butyne: a computational chemical kinetics study. Physical Chemistry Chemical Physics, 2011, 13, 4583. | 2.8 | 7 |
| 27 | Pyrolysis oftert-Butyltert-Butanethiosulfinate,t-BuS(O)St-Bu: A Computational Perspective of the Decomposition Pathways. Journal of Physical Chemistry A, 2011, 115, 3068-3078. | 2.5 | 7 |
| 28 | Association reaction between SiH3 and H2O2: a computational study of the reaction mechanism and kinetics. Theoretical Chemistry Accounts, 2013, 132, 1. | 1.4 | 7 |
| 29 | Molecular-level insights into the self-assembly driven enantioselective recognition process. Chemical Communications, 2021, 57, 2535-2538. | 4.1 | 6 |
| 30 | Binding affinity of substituted ureidoâ€benzenesulfonamide ligands to the carbonic anhydrase receptor: A theoretical study of enzyme inhibition. Journal of Computational Chemistry, 2013, 34, 1907-1916. | 3.3 | 5 |
| 31 | Stability, spectroscopic constants, and dissociation of CO ²⁺ : A theoretical study. International Journal of Quantum Chemistry, 2009, 109, 469-476. | 2.0 | 4 |
| 32 | Structure and dissociation of cyanogen halides BrCN and ICN. International Journal of Quantum Chemistry, 2010, 110, 1165-1171. | 2.0 | 4 |
| 33 | Computational mechanistic insights into non-noble-metal-catalysed CO ₂ conversion. Dalton Transactions, 2020, 49, 16608-16616. | 3.3 | 4 |
| 34 | Potential energy surface and thermochemistry for the direct gas phase reaction of germane and water. Structural Chemistry, 2009, 20, 851-858. | 2.0 | 3 |
| 35 | Structure, stability and dissociation of silanitriles RSiN (RÂ=ÂH2B, H2N, H2P). Structural Chemistry, 2010, 21, 947-954. | 2.0 | 3 |
| 36 | lsomers of OCS and their reaction with H ₂ O on singlet potential energy surface. Molecular Physics, 2010, 108, 3353-3364. | 1.7 | 3 |

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|----|--|-----|-----------|
| 37 | Structure, stability and energetics of ionic arsenic–water complexes. Molecular Physics, 2011, 109, 933-941. | 1.7 | 2 |
| 38 | Spectroscopy and dissociation of sulfuryl halides SO ₂ X ₂ (X=F, Cl). Molecular Physics, 2009, 107, 1811-1816. | 1.7 | 1 |
| 39 | Theoretical study of spectroscopy and dissociation of SO2Br2 and SO2I2. Chemical Physics Letters, 2009, 477, 28-31. | 2.6 | 1 |
| 40 | New molecular species of potential interest to interstellar chemistry: A theoretical study of MgSiN, MgNSi and related species. Chemical Physics, 2009, 364, 105-110. | 1.9 | 0 |
| 41 | Dissociation and thermochemistry of methylsilanitrile and silylsilanitrile: implications for the chemistry of silicon in interstellar medium. Molecular Physics, 2009, 107, 157-164. | 1.7 | 0 |
| 42 | Computational study on the doublet [H,S,Si,O] isomers: Structure, stability and dissociation. Computational and Theoretical Chemistry, 2010, 955, 78-83. | 1.5 | 0 |
| 43 | Theoretical study of [Si,O,C,O] species: Prediction of new species on triplet potential energy surface. International Journal of Quantum Chemistry, 2011, 111, 606-615. | 2.0 | Ο |