

(List of Publications in Journals, Year wise)

Year 2022

- [155] Ashish Kumar Kar, Arjun Behera, and **Rajendra Srivastava***, Pd-Embedded Ti Metal–Organic Framework Nanostructures for Photocatalytic Reductive N-Formylation of Nitroarenes in Water, *ACS Applied Nano Materials* 2022, DOI: 10.1021/acsanm.1c03310. **(Impact Factor-5.1)**
- [154] Arjun Behera, Ashish Kumar Kar, and **Rajendra Srivastava***, Challenges and Prospects in the Selective Photoreduction of CO₂ to C1 and C2 Products with Nanostructured Materials: A Review, *Materials Horizons*, 2022, <https://doi.org/10.1039/D1MH01490K> **(Impact Factor-13.3)**
- [153] Atal Shivhare, Atul Kumar, and **Rajendra Srivastava***, The Size-Dependent Catalytic Performances of Supported Metal Nanoparticles and Single Atoms for the Upgrading Biomass-Derived 5-Hydroxymethylfurfural, Furfural, and Levulinic acid, *ChemCatChem*, 2022, <https://doi.org/10.1002/cctc.202101423>. **(Impact Factor-5.7)**

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- [152] Rajat Ghalta, Ashish Kumar Kar, and **Rajendra Srivastava***, Selective Production of Secondary Amine By the Photocatalytic Cascade Reaction Between Nitrobenzene and Benzyl alcohol over Nanostructured Bi₂MoO₆ and Pd NPs Decorated Bi₂MoO₆, *Chemistry-An Asian Journal*, 2021, 16, 3790-3803. **(Impact Factor = 4.6) (Featured as the Cover Page)**
- [151] Abhinav Kumar, and **Rajendra Srivastava***, Rose-like Bi₂WO₆ Nanostructure for Visible-Light-Assisted Oxidation of Lignocellulose-Derived 5-Hydroxymethylfurfural and Vanillyl Alcohol, *ACS Applied Nano Materials* 2021, 4, 9080-9093. **(Impact Factor-5.1)**
- [150] Ganesh Sunil More and **Rajendra Srivastava***, Efficient Activation of CO₂ over Ce-MOF derived CeO₂ for the Synthesis of Cyclic Urea, Urethane, *Industrial & Engineering Chemistry Research*, 2021, 60, 12492-12504. **(Featured as the Cover Page of the Journal) (Impact Factor-3.7)**
- [149] Abhinav Kumar, Rajaram Bal, and **Rajendra Srivastava***, Pd-decorated CePO₄ catalyst for the one-pot two-step cascade reaction to transform biomass-derived

- furanic aldehydes into fuel intermediates, *Energy & Fuels*, 11366-11381, 14, 2021. (Impact Factor-3.6)
- [148] Abhinav Kumar, Subhajyoti Samanta, and **Rajendra Srivastava***, Graphitic Carbon Nitride Modified with Zr-Thiamine Complex for Efficient Photocatalytic CO₂ Insertion to Epoxide: Comparison with Traditional Thermal Catalysis, *ACS Applied Nano Materials* 6805-6820, 4, 2021. (Featured as the Cover Page) (Impact Factor-5.1)
- [147] Abhinav Kumar, Atal Shivhare, Rajaram Bal, and **Rajendra Srivastava***, Metal and solvent-dependent activity of spinel-based catalysts for the selective hydrogenation and rearrangement of furfural, *Sustainable Energy & Fuels*, 3191-3204, 5, 2021. (Impact Factor-6.4)
- [146] Abhinav Kumar, Rajaram Bal, and **Rajendra Srivastava***, Modulation in Ru and Cu nanoparticles contents over CuAlPO-5 in synergistic enhancement in the selective reduction and oxidation of biomass-derived furan-based alcohols and carbonyls, *Catalysis Science & Technology*, 4133-4148, 11, 2021. (Impact Factor-6.1)
- [145] Atal Shivhare, Abhinav Kumar and **Rajendra Srivastava***, Metal Phosphate Catalysts to Upgrade Lignocellulose Biomass into Value-Added Chemicals and Bio-Fuels, *Green Chemistry*, 3818-3841, 23, 2021. (Impact Factor-10.2)
- [144] Ashish Kumar Kar and **Rajendra Srivastava***, Reductive Formylation of Nitroarenes using HCOOH over Bimetallic C-N Framework Derived from the Integration of MOF and COF, *ChemCatChem*, 3174-3183, 13, 2021. (Impact Factor-5.7)
- [143] Atal Shivhare, Deshetti Jampaiah, Suresh K. Bhargava, Adam F. Lee,* **Rajendra Srivastava**,* and Karen Wilson*, Hydrogenolysis of Lignin-Derived Aromatic Ethers over Heterogeneous Catalysts, *ACS Sustainable Chemistry & Engineering* 3379-3407, 9, 2021. (Published as Perspective) (Impact Factor-8.2)
- [142] Ganesh Sunil More and **Rajendra Srivastava**, Synthesis of Amino Alcohols, Cyclic Urea, Urethanes, Cyclic Carbonates and Tandem One-pot Conversion of Epoxide to Urethanes using Zn-Zr Bimetallic Oxide Catalyst, *Sustainable Energy & Fuels*, 1498-1510, 5, 2021. (Impact Factor-6.4)

- [141] Atal Shivhare, Abhinav Kumar and **Rajendra Srivastava**^{*}, An Account of the Catalytic Transfer Hydrogenation and Hydrogenolysis of Carbohydrates-Derived Renewable Platform Chemicals over Non-Precious Heterogeneous Metal Catalysts, *ChemCatChem*, 59-80, 13, 2021. (**Impact Factor-5.7**)

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- [140] Abhinav Kumar and **Rajendra Srivastava**^{*}, Pd Decorated Magnetic Spinels for Selective Catalytic Reduction of Furfural: Interplay of Framework Substituted Transition Metal and Solvent in Selective Reduction, *ACS Applied Energy Materials*, 9928-9939, 3, 2020. (**Impact Factor-6.0**)
- [139] Ashish Kumar Kar, Surinder Pal Kaur, T. J. Dhilip Kumar and **Rajendra Srivastava**^{*}, Efficient hydrogenolysis of aryl ethers over Ce-MOF supported Pd NPs under mild conditions: Mechanistic insight using density functional theoretical calculations, *Catalysis Science and Technology*, 6892-6901, 10, 2020. (**Impact Factor-6.2**)
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- [137] Poonam Rani and **Rajendra Srivastava**^{*}, Comprehensive Understanding of the Eco-friendly Synthesis of Zeolites: Needs of 21st Century Sustainable Chemical Industries, *The Chemical Record*, 968-988, 20, 2020. (**Impact Factor-6.8**)
- [136] Abhinav Kumar and **Rajendra Srivastava**^{*}, Zirconium Phosphate Catalyzed Transformations of Biomass Derived Furfural to Renewable Chemicals, *ACS Sustainable Chemistry & Engineering* 9497-9506, 8, 2020. (**Impact Factor = 8.2**)
- [135] Subhajyoti Samanta and **Rajendra Srivastava**^{*}, Catalytic Conversion of CO₂ to Chemicals and Fuels: The Collective Thermocatalytic/Photocatalytic/Electrocatalytic Approach with Graphitic Carbon Nitride, *Materials Advances (RSC)*, 1506-1545, 1, 2020.
- [134] Aniruddha Mukherji, Rajaram Bal, **Rajendra Srivastava**^{*}, Understanding the Co:Mo Compositional Modulation and Fe-Interplay in Multicomponent Sulfide Electrocatalysts for Oxygen and Hydrogen Evolution Reactions

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- [128] Poonam Rani and Rajendra Srivastava*, Extra-Framework Aluminum Species of Zeolite that Surrogate the Growth of Metal Organic Framework from Zeolite Matrix, *Chemistry-An Asian Journal*, 2598-2603, 14, 2019. (Impact Factor = 4.6)
- [127] Aniruddha Mukherji, Lakshi Saikia, Rajendra Srivastava*, Few-layer MoS₂ wrapped MnCO₃ on graphite paper: A hydrothermally grown hybrid negative

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- [122] Bhaskar Sarmah and **Rajendra Srivastava***, Selective two-step synthesis of 2,5-diformylfuran from monosaccharide, disaccharide, and polysaccharide using H-Beta and octahedral MnO₂ molecular sieves, ***Molecular Catalysis***, 92-103, 462, 2019. (**Impact factor = 5.1**)

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