

List of publications

1. 'A noble-metal-free $\text{Ce}_{0.90}\text{Co}_{0.10}\text{O}_{2-\delta}$ catalyst with enhanced three-way catalytic performance' Bhaskar Devu Mukri, *Kinetics and Catalysis*, 2021, 62(6), 756–764.
2. 'High rates of catalytic hydrogen combustion with air over $\text{Ti}_{0.97}\text{Pd}_{0.03}\text{O}_{2-\delta}$ coated cordierite monolith' Bhaskar Devu Mukri and M. S. Hegde, *Journal of Chemical Sciences*, 2017, 129(9), 1363–1372.
3. 'Alkali-treated Carbonized Rice Husk for the Removal of Aqueous Cr (VI)', Bhaskar Devu Mukri, Killi Krushnamurthy, Arif Chowdhury, Duvvuri Suryakala and Challapalli Subrahmanyam, *BioResources*, 2016, 11(4), 9175–9189.
4. 'Mn ion substituted CeO_2 Nano spheres for low temperature CO oxidation: The promoting effect of Mn ions' Bhairi Lakshminarayana, Bhaskar Devu Mukri, P. Ghosal and Ch. Subrahmanyam, *ChemistrySelect*, 2016, 1(12), 3150–3158.
5. 'Platinum Ion-Doped TiO_2 : High Catalytic Activity of Pt^{2+} with Oxide Ion Vacancy in $\text{Ti}^{4+}_{1-x}\text{Pt}^{2+}_x\text{O}_{2-x}$ Compared to Pt^{4+} without Oxide Ion Vacancy in $\text{Ti}^{4+}_{1-x}\text{Pt}^{4+}_x\text{O}_2$ ' Bhaskar Devu Mukri, Umesh V. Waghmare and M. S. Hegde, *Chemistry of Materials*, 2013, 25(19), 3822–3833.
6. 'DRIFTS studies on CO and NO adsorption and NO + CO reaction over Pd^{2+} -substituted CeO_2 and $\text{Ce}_{0.75}\text{Sn}_{0.25}\text{O}_2$ catalysts' Tinku Baidya, Parthasarathi Bera, Bhaskar Devu Mukri, Sanjit Kumar Parida, Oliver Krocher, Martin Elsener and M. S. Hegde, *Journal of Catalysis*, 2013, 303, 117–129.
7. 'Activation of Lattice Oxygen of TiO_2 by Pd^{2+} Ion: Correlation of Low-Temperature CO and Hydrocarbon Oxidation with Structure of $\text{Ti}_{1-x}\text{Pd}_x\text{O}_{2-x}$ ($x = 0.01-0.03$)' Bhaskar Devu Mukri, Gargi Dutta, Umesh V. Waghmare and M. S. Hegde, *Chemistry of Materials*, 2012, 24(23), 4491–4502.
8. 'Direct evidence of redox interaction between metal ion and support oxide in $\text{Ce}_{0.98}\text{Pd}_{0.02}\text{O}_{2-\delta}$ by a combined electrochemical and XPS study' Sudhanshu Sharma, Bhaskar Devu Mukri and M. S. Hegde, *Dalton Transactions*, 2011, 40(43), 11480–11489.
9. ' $\text{Ce}_{0.67}\text{Fe}_{0.33}\text{O}_{2-\delta}$ and $\text{Ce}_{0.65}\text{Fe}_{0.33}\text{Pt}_{0.02}\text{O}_{2-\delta}$: New water gas shift (WGS) catalysts' N. Mahadevaiah, Preetam Singh, Bhaskar Devu Mukri, Sanjit Kumar Parida and M. S. Hegde, *Applied Catalysis B: Environmental*, 2011, 108–109, 117–126.
10. ' $\text{Ce}_{0.98}\text{Pd}_{0.02}\text{O}_{2-\delta}$: Recyclable, ligand free palladium (II) catalyst for Heck reaction' S. R. Sanjaykumar, Bhaskar Devu Mukri, Satish Patil, Giridhar Madras and M. S. Hegde, *Journal of Chemical Sciences*, 2011, 123(1), 47–54.