

LIST OF PATENTS (PhD)

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- [2] "Single step direct coating of 3-way catalysts on cordierite monolith by solution combustion method: High catalytic activity of $\text{Ce}_{0.98}\text{Pd}_{0.02}\text{O}_{2-\delta}$ " **Sudhanshu Sharma**, M. S. Hegde, **Catal. Lett.** 112 (2006) 69.
- [3] "Hydrocarbon oxidation and three-way catalytic activity on a single step directly coated cordierite monolith: High catalytic activity of $\text{Ce}_{0.98}\text{Pd}_{0.02}\text{O}_{2-\delta}$ " **Sudhanshu Sharma**, M. S. Hegde, Ratindra Nath Das, Manish Pandey, **Appl. Catal. A: General** 337 (2008) 337.
- [4] "Low temperature NO_x and N_2O reduction by H_2 : Mechanism and development of new nano-catalysts" Sounak Roy, M.S. Hegde, **S. Sharma**, N.P. Lalla, A. Marimuthu, Giridhar Madras **Applied Catalysis B: Environmental**, 84 (2008) 341.
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- [9] "Microemulsion-mediated synthesis of cobalt (pure fcc and hexagonal phases) and cobalt-nickel alloy nanoparticles", J. Ahmed, **Sudhanshu Sharma**, K. V. Ramanujachari, A. K. Ganguli, **J. Colloid. Interfac. Sci.**, 336, (2009), 814.
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- [11] "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" by **Sudhanshu Sharma**, Bhaskar D. Mukri and M. S. Hegde, **Dalton Transaction**, 40 (2011) 11480. (*as corresponding author*)
- [12] "Electrocatalysis and redox behavior of Pt^{2+} ion in CeO_2 and $\text{Ce}_{0.85}\text{Ti}_{0.15}\text{O}_2$: XPS evidence of participation of lattice oxygen for high activity" by **Sudhanshu Sharma**, P.

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- [22]* Combustion Synthesized La₂O₃ and La(OH)₃: Recyclable Catalytic Activity towards Knoevenagel and Hantzsch reactions, Bhanu Pratap Gangwar, Veerabhadraiah Palakollu, Archana Singh, Sriram Kanvah, **Sudhanshu Sharma**, **RSC Advances**, 4 (2014), 55407-55416.
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