

List of Publications:

2024

126. "Nanostructured NiO for Catalytic Oxidation of CO: Microstructural and Anionic Effects of the Precursors", Pallab Bose, Somjyoti Basak, Ipsita Hazra Chowdhury, Adwitiya Chakraborty and Milan Kanti Naskar, *ChemistrySelect*, 2024, 9[34] e202401344 (doi.org/10.1002/slct.202401344).
125. "Visible light induced photocatalytic removal of an organic dye using metal doped iron oxide based catalysts derived from red mud", Adwitiya Chakraborty, Soumita Samajdar, Srabanti Ghosh and Milan Kanti Naskar, *New J. Chem.* 2024, 48, 10401-10414
124. "Dual Active Site Mediated Photocatalytic H₂ Evolution through Water Splitting Using CeO₂/PPy/BFO Double Heterojunction Catalyst", Srabanti Ghosh, Sourabh Pal, Maitrayee Biswas, Maiyalagan Thandavarayan, Allu Amarnath Reddy, Milan Kanti Naskar, *ACS Applied Energy Materials* (2024) (doi:10.1021/acsaem.4c00269).
123. "Visible-Light-Assisted Photocatalytic CO₂ Reduction and N₂-Fixation over TiO₂/Covalent Organic Framework Heterojunction Photocatalyst", Priyanka Sarkar, Ipsita Hazra Chowdhury, Adwitiya Chakraborty, Manoj Goswami, Milan Kanti Naskar, Aslam Khan and Sk. Manirul Islam, *Ind. Eng. Chem. Res.* 2024, 63, 5591–5607.
122. "Preparation of high-strength waste-derived eco-friendly ceramic foam as face brick and its estimation of building energy consumption for thermal insulation", Tuhin Sarkara, Milan Kanti Naskar, Adwitiya Chakraborty, Pradip Kumar Roy, Shirshendu Chakraborty, *J. Building Engineering* 88 (2024) 109043.
121. "Structural and optical properties of silicon oxycarbide thin films using silane based precursors via sol-gel process", Soma Hansda, Dipika Sarkar, Sukanya Kundu, Ajitesh Kar, Subhankar Bera, Sanjiban Das, Dipayan Sanyal and Milan K. Naskar, *Thin Solid Films*, 791 (2024) 140226.
120. "Room temperature cured silver nanoparticles embedded hybrid nanocomposite coatings: Processing and property evaluation", Srikrishna Manna, Prabir Pal, Milan Kanti Naskar, Samar Kumar Medda, *New J. Chem.* 2024, 48, 2371-2380.
119. "Influence of Metal Organic Framework Glasses on Thermoelectric Properties of AgSb_{0.96}Zn_{0.04}Te₂ Alloy", Aradhana Acharya, Barnasree Chanda, Madhuvathani Saminathan, Suresh Perumal, K. Jayanthi, K. Annapurna, N. M. Anoop Krishnan, Bhasker Gahtori, Milan Kanti Naskar, Srabanti Ghosh, Amarnath R Allu, Suman Kumari Mishra, *J. Non-Cryst. Solids Journal of Non-Crystalline Solids* 627 (2024) 122816.
118. "Metal oxide nanocrystals embedded polypyrrole nanohybrid: Exploring role of interface in photocatalytic hydrogen generation", Sourabh Pal, Pradip Sekhar Das, Milan Kanti Naskar, Srabanti Ghosh, *Materials Today Sustainability* 25 (2024) 100610

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117. "Z-Scheme Heterostructures Using Band-Gap-Tunable ZnO by Metal Doping and Coupling with Polypyrrole for Enhanced Photocatalytic Water Splitting" Srabanti Ghosh, Pradip Sekhar Das, Dipendu Sarkar, Sourabh Pal, Milan Kanti Naskar, Yatendra S. Chaudhary, Sunanda Dey, Chittaranjan Sinha, *ACS Applied Polymer Materials* 5 (2023) 9918–9930.
116. "Room temperature curable inorganic–organic hybrid nanocomposite hydrophobic coating: Mechanistic understanding of the role of Ti(IV) and the diamine based curing agent", Srikrishna Manna, Santanu Maity, Milan Kanti Naskar and Samar Kumar Medda, *New J. Chem.*, 2023, 47, 12992-13003.
115. "Low Temperature Processing of Iron Oxide Nanoflakes from Red Mud Extract toward Favorable De-arsenification of Water Adwitiya Chakraborty", Prasanta Kumar Sinha, and Milan Kanti Naskar, *ACS Omega* 2023, 8, 29281–29291.

114. "Solvothermal Synthesis of Spherical Alumina: Delving into the Formation Mechanism and Morphological Change with Phase Transformation", P. Bose, A.H. Chowdhury, A. Chakraborty, I.H. Chowdhury, and M. K. Naskar, *ChemistrySelect*, 8(1) (2023) e202203279

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113. "Sol-gel synthesis of alumina gel@zeolite X nanocomposite for high performance water defluoridation: Batch and column adsorption study", A. Chakraborty and M.K. Naskar, *Mater. Adv.*, 3 (2022) 8544-8556.

112. "Mesoporous silica-based abrasion resistant antireflective (AR)-cum-hydrophobic coatings on textured solar cover glasses by a spray coating technique", S. Manna, M. K. Naskar and S. K. Medda, *Mater. Adv.*, 3 (2022) 3208-3217.

111. "Porous organic polymer (POP) nanosheets: an efficient photo-catalyst for visible-light assisted CO₂ reduction" S. Das, I.H. Chowdhury, A. Chakraborty, M.K. Naskar, M. Sarkar and S. K. M. Islam, *Mater. Adv.*, 2022, 3, 3165-3173.

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109. "Study on the Synthesis and Structural Properties of Zeolite A-MgO Composite for Defluoridation of Water" A. Chakraborty and M. K. Naskar, *Trans. Ind. Ceram. Soc.* 80(3) 2021, 199-207.

108. "Carbon-layered double hydroxide nanocomposite for efficient removal of inorganic and organic based water contaminants – unravelling the adsorption mechanism" S. Kundu and M.K. Naskar, *Mat. Adv.* 2, (2021) 3600–3612.

107. "Perspective of Membrane Processes for the Removal of Arsenic from Water : A Review" S. Kundu and M.K. Naskar, *Trans. Ind. Ceram. Soc.* 80(1) (2021) 28-40

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105. "Preparation of colloidal hydrated alumina modified NaA zeolite derived from rice husk ash for effective removal of fluoride ions from water medium", M.K. Naskar, *J. Asian Ceram. Soc.* 8(2) (2020) 437-447.

104. "Investigating the role of amides on the textural and optical properties of mesoporous-nanostructured θ -Al₂O₃", S. Ghosh, S. Kundu, R. Das and M.K. Naskar, *Bull. Mater. Sci.*, 43 (2020) 15

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102. "Al–Mg–Ca-Layered Double Oxides for Efficient Removal of As(V) from Water: The Role of Amides" Sukanya Kundu and Milan Kanti Naskar, *J. Chem Eng. Data* 64(4) (2019) 1594-1604.

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95. "Cauliflower-like hierarchical silicalite-1 supported AuNPs toward improved catalytic reduction of p-nitrophenol," R. Das and M. K. Naskar, *New J. Chem.* 42 (2018) 476–482
94. "Hierarchical porous carbon nanospheres for efficient removal of toxic organic water contaminants of phenol and methylene blue," S. Kundu, I. Hazra Chowdhury and M.K. Naskar, *J. Chem Eng. Data* 63(3) (2018) 559-573.
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87. "One pot non-emulsion based hydrothermal synthesis of urchin-shaped hydroxyl sodalite using waste coal fly ash", R. Das, S. Aich and M.K. Naskar, *Ind. J. Chem.* 56A (2017) 394-398.
86. "Mesoporous CuO-TiO₂ microspheres for efficient catalytic oxidation of CO and photodegradation of methylene blue" I. H. Chowdhury, S. Ghosh, S. Basak and M.K. Naskar, *J. Phys. Chem. Solids* 104 (2017) 103-110.

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