

Beneficial effects of bio-fabricated selenium nanoparticles as seed nanopriming agent on seed germination in rice (*Oryza sativa* L.)

Setty, Jyotsna; Samant, Sanjib Bal; **Yadav, Mayank Kumar**; Manjubala, Muthusamy; Pandurangam, Vijai Scientific Reports 2023 / art. 22349 <https://doi.org/10.1038/s41598-023-49621-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comparative study on physio-mechanical properties of silica compacts fabricated using rice husk ash derived amorphous and crystalline silica

Gupta, Ashutosh; Pandey, Vaibhav; **Yadav, Mayank Kumar**; Mohanta, Kalyani; Majhi, Manas Ranjan Ceramics international 2022 / p. 35750-35758 <https://doi.org/10.1016/j.ceramint.2022.07.098> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An economic and sustainable approach to transform aluminosilicate-rich solid waste to functionally graded composite foam for high-temperature applications

Pandey, Vaibhav; **Yadav, Mayank Kumar**; Panda, Saroja Kanta; Singh, Vinay Kumar Chemosphere 2023 / art. 139588, 12 p. : ill <https://doi.org/10.1016/j.chemosphere.2023.139588> [Journal metrics at Scopus](#) [Article at Scopus](#)

High temperature dry sliding wear behaviour of selective laser melted Ti-6Al-4V alloy surfaces

Praveenkumar, Kesavan; Vishnu, Jithin; Samuel, Calvin; Gopal, Vasanth; Arivarasu, Moganraj; Lackner, Jürgen M.; Meier, Benjamin; Karthik, D.; **Prashanth, Konda Gokuldoss**; **Yadav, Mayank Kumar** Journal of materials processing technology 2024 / art. 118439, 12 p. : ill <https://doi.org/10.1016/j.jmatprotec.2024.118439> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metallic multimaterials fabricated by combining additive manufacturing and powder metallurgy

Yadav, Mayank Kumar; **Shukla, Riddhi Hirenkumar**; Xi, Lixia; Wang, Zhi; **Prashanth, Konda Gokuldoss** Journal of composites science 2025 / art. 80 <https://doi.org/10.3390/jcs9020080>

Microstructural Characterization and Hydrothermal Ageing Resistance of Rice Husk Silica-Doped Alumina Toughened Zirconia Biocomposite

Gupta, Ashutosh; Pandey, Vaibhav; Singh, Satyendra Kumar; **Yadav, Mayank Kumar**; Majhi, Manas Ranjan Silicon 2025 / 11 p <https://doi.org/10.1007/s12633-025-03353-0>

Microstructural homogenization through laser remelting in an additively manufactured Ti-40Nb sample from elemental feedstock powders

Subramanian, Shangavi; **Yadav, Mayank Kumar**; Jayaraj, J.; Yangyang, Fan; Xi, Lixia; **Prashanth, Konda Gokuldoss** Journal of materials research and technology 2025 / p. 4305-4320 <https://doi.org/10.1016/j.jmrt.2025.08.203>

Microstructural, mechanical, corrosion, and biological behavior of spark plasma sintered commercially pure zinc for biomedical applications

Yadav, Mayank Kumar; **Shukla, Riddhi Hirenkumar**; Praveenkumar, K.; Nilawar, Sagar; Perugu, Chandra Sekhar; Sellamuthu, Prabhukumar; Chatterjee, Kaushik; Suwas, Satyam; Jayaraj, Jayamani; **Prashanth, Konda Gokuldoss** Materials advances 2025 <https://doi.org/10.1039/D5MA00092K>

A novel Ti-eggshell-based composite fabricated by combined additive manufacturing-powder metallurgical routes as bioimplants

Shukla, Riddhi Hirenkumar; **Yadav, Mayank Kumar**; Madruga, Liszt Yeltsin Coutinho; Jaymani, Jayraj; Popat, Ketul; Wang, Zhi; Xi, Lixia; **Prashanth, Konda Gokuldoss** Ceramics international 2024 / 11 p <https://doi.org/10.1016/j.ceramint.2024.12.073>