

Competition between densification and microstructure of functional materials by Selective Laser Melting

Singh, Neera; Ummethala, Raghunandan; Hameed, Pearlin; Sokkalingam, Rathinavelu; Prashanth, Konda Gokuldoss Material design & processing communications 2020 / art. e146, 7 p. : ill <https://doi.org/10.1002/mdp2.146> [Journal metrics at Scopus](#) [Article at Scopus](#)

Deformation mechanism studies by varying height to diameter ratio of Al-Mg and Al-Mg-C metal matrix composites

Sharma, Shubham; **Singh, Neera**; Kumar, Devendra; Gupta, Sumit; Chaudhary, Vijay; Gupta, Niraj; Gupta, Pallav Journal of Advanced Manufacturing Systems 2023 / p. 603-618 <https://doi.org/10.1142/S0219686723500270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of ceramic reinforcement on the microstructural, mechanical and tribological behavior of Al-Cu alloy metal matrix composite

Aktar Zahid Sohag, Md; Gupta, Pallav; Kondal, Neha; Kumar, Devendra; **Singh, Neera**; Jamwal, Anbesh Materials today: proceedings 2020 / p. 1407-1411 <https://doi.org/10.1016/j.matpr.2019.08.179> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Effect of TiB₂ addition on the mechanical and biological response of spark plasma sintered Ti6Al7Nb matrix composites

Singh, Neera; Ummethala, Raghunandan; Surreddi, Kumar Babu; Jayaraj, Jayamani; **Sokkalingam, Rathinavelu**; Rajput, Monika; Chatterjee, Kaushik; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2022 / art. 166502 <https://doi.org/10.1016/j.jallcom.2022.166502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Formation of fine Mg₂Si phase in Mg-Si alloy via solid-state sintering using high energy ball milling

Seth, Prem Prakash; **Singh, Neera**; Singh, Manoj; Prakash, Om; Kumar, Devendra Journal of alloys and compounds 2020 / art. 153205, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2019.153205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructural, mechanical and corrosion behaviour of Al-Si alloy reinforced with SiC metal matrix composite

Bandil, Kapil; Vashisth, Himanshu; Kumar, Sourav; **Singh, Neera** Journal of composite materials 2019 / p. 4215-4223 : ill <https://doi.org/10.1177/0021998319856679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microstructure, wear and corrosion characteristics of Cu matrix reinforced SiC-graphite hybrid composites

Jamwal, Anbesh; Prakash, Prem; Kumar, Devendra; **Singh, Neera**; Sadasivuni, Kishor Kumar; Harshit, Kumar; Gupta, Sumit; Gupta, Pallav Journal of composite materials 2019 / p. 2545 - 2553 <https://doi.org/10.1177/0021998319832961> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phase, microstructure, and wear behavior of Al₂O₃-reinforced Fe-Si alloy-based metal matrix nanocomposites

Saxena, Akash; **Singh, Neera**; Singh, Bhupendra; Kumar, Devendra; Sadasivuni, Kishor Kumar; Gupta, Pallav; Kumar, Devendra Proceedings of the institution of mechanical engineers part L Journal of Materials Design and Applications Journal of materials design and applications 2020 / art. 146442071989338, p. 467-480 <https://doi.org/10.1177/1464420719893387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recent developments on wear and corrosion behavior of iron/iron-nickel metal matrix composites reinforced with zirconia

Singh, Neera; Jha, Pushkar; Parkash, Om; Kumar, Devendra Transactions of the Indian Institute of Metals 2019 / p. 2151-2158 : ill <https://doi.org/10.1007/s12666-019-01683-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selective laser melting of aluminum and its alloys

Wang, Zhi; **Ummethala, Raghunandan; Singh, Neera; Prashanth, Konda Gokuldoss** Materials 2020 / art. 4564 : ill <https://doi.org/10.3390/ma13204564> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties

Singh, Neera; Ummethala, Raghunandan; Karamched, Phani S.; Sokkalingam, Rathinavelu; Gopal, Vasanth; Manivasagam, G.; **Prashanth, Konda Gokuldoss** Journal of alloys and compounds 2021 / art. 158875, 10 p. : ill <https://doi.org/10.1016/j.jallcom.2021.158875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Subtle change in the work hardening behavior of fcc materials processed by selective laser melting

Sokkalingam, Rathinavelu; Sivaprasad, Katakam; **Singh, Neera**; Muthupandi, Veerappan; Ma, Pan; Jia, Yandong; **Prashanth, Konda Gokuldoss** Progress in additive manufacturing 2022 / p. 453-461 <https://doi.org/10.1007/s40964-022-00301-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and characterization of nanocrystalline Fe(100-x)Ni(x) alloy powders by auto-combustion and hydrogen reduction

Singh, Neera; Sharma, Shyam; Parkash, Om; Kumar, Devendra Journal of Materials Engineering and Performance 2019 / p. 5441-5449 : ill <https://doi.org/10.1007/s11665-019-04330-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ti6Al7Nb–TiB nanocomposites for ortho-implant applications

Singh, Neera; Edachery, Vimal; Rajput, Monika; Chatterjee, Kaushik; Kailas, Satish V.; **Prashanth, Konda Gokuldoss** Journal of materials research 2022 / p. 2525–2535 <https://doi.org/10.1557/s43578-022-00578-2> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

γ and α -(Fe, Ni) phase characterization using image processing and effect of phase formation on the P/M Fe(100-x)Ni(x) alloys properties

Singh, Neera; Pandey, Vaibhav; Srivastava, Gargi; Banerjee, Supriya; Parkash, Om; Kumar, Devendra Materials chemistry and physics 2020 / art. 122794 <https://doi.org/10.1016/j.matchemphys.2020.122794> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)