

**Bioinspired and multifunctional tribological materials for sliding, erosive, machining, and energy-absorbing conditions :
A review**

Kumar, Rahul, 1993-; Rezapourianghahfarokhi, Mansoureh; Rahmani Ahranjani, Ramin; **Maurya, Himanshu Singh; Kamboj, Nikhil Kumar; Hussainova, Irina** Biomimetics 2024 / art. 209 <https://doi.org/10.3390/biomimetics9040209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A flexible fin with bio-inspired stiffness profile and geometry

Salumäe, Taavi; Kruusmaa, Maarja Journal of bionic engineering 2011 / p. 418-428
<https://www.sciencedirect.com/science/article/pii/S1672652911600474>

Flow-relative control of an underwater robot

Salumäe, Taavi; Kruusmaa, Maarja Proceedings of the Royal Society. A, Mathematical, physical & engineering sciences 2013 / art. 20120671 <https://doi.org/10.1098/rspa.2012.0671> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In vivo assessment of a triple periodic minimal surface based biomimetic gyroid as an implant material in a rabbit tibia model

Khan, Pearlin Amaan; Raheem, Ansheed A.; Kalirajan, Cheirmadurai; Prashanth, Konda Gokuldoss; Manivasagam, Geetha ACS Materials Au 2024 / p. 479-488 : ill <https://doi.org/10.1021/acsmaterialsau.4c00016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NACA 2412 drag reduction using V-shaped riblets

Selvanose, Smitha Mol; Marimuthu, Siva; Awan, Abdul Waheed; Daniel, Kamran Eng 2024 / p. 944-957
<https://doi.org/10.3390/eng5020051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Review on nature-inspired interfaces and mechanical interlocking techniques in additively manufactured adhesively bonded joints

Hari Krishna, P.H.; DhilipKumar, Thulasidhas; Shankar, Karthik V.; Hariprasad, M.P.; Murali, Arun Prasad; El-Rayyes, Ali; Prashanth, Konda Gokuldoss Journal of materials research and technology 2025 / p. 998-1016 <https://doi.org/10.1016/j.jmrt.2025.09.150>