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@inproceedings{Nosonovsky2011BiomimeticsIM, title={Biomimetics in Materials Science: Self-Healing, Self-Lubricating, and Self-Cleaning Materials}, author={Michael Nosonovsky and Pradeep K. Rohatgi}, year={2011} }

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Biomimetic materials are synthetic (man-made) materials that

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mimic natural materials or that follow a design motif derived from nature. In the previous section, a number of peptides and proteins were discussed. In general, peptides and proteins are isolated from natural sources and are therefore listed among the biologically derived polymers.

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Biomimetic materials are materials developed using inspiration from nature. This may be useful in the design of composite materials. Natural structures have inspired and innovated human creations. Notable examples of these natural structures include: honeycomb structure of the beehive, strength of spider silks, bird flight mechanics, and shark skin water repellency. The etymological roots of the neologism biomimetic derive from Greek, since bios means "life" and mimetikos means "imitative"

~~Biomimetic material - Wikipedia~~

Living organisms have evolved well-adapted structures and materials over geological time through natural selection.

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Biomimetics has given rise to new technologies inspired by biological solutions at macro and nanoscales. Humans have looked at nature for answers to problems throughout our existence. Nature has solved engineering problems such as self-healing abilities, environmental exposure tolerance and resistance, hydrophobicity, self-assembly, and harnessing solar energy.

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