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Overcoming roadblocks toward reliable and scalable production of nanostructures engineered to the molecular level

Emerging applications within different industrial sectors including automobile, energy, space and medicine place significant demands on performance of materials used. Precise control over structure and functionality of materials offer significant opportunity to meet such demands provided they can also be produced at high volumes with assured quality and reasonable costs. I will share promising approaches that we have seen over years, to produce diverse material nanoarrays, and functional colloids with geometry and surface functionality engineered down to molecular level. Outcomes that successfully bridge trade-off between spatial resolutions, quality and throughput would be presented, with specific emphasis on medical sector, while carrying wider applicability to range of other sectors.

Speaker Biography

Sivashankar Krishnamoorthy is a group leader for the Materials Research and Technology department at Luxembourg Institute of Science and Technology (LIST). His professional experience spans over 15 years of experience in nanotechnologies and materials science, working at research and technology organizations in Switzerland, Japan, Singapore and Luxembourg. His current research projects focus on investigating structure, property and function down to molecular level, functional micro/nanoscale devices and interfaces, nano plasmonic devices, and application to bio-interfaces. He is actively involved in organizational and strategic efforts on personnel management, acquisition and management of competitive grants, review of competitive grants of different funding agencies, and organization of international conferences.

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