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Seminars Journey of the

Molecular Modeling of Nanosystems Course

Room 1 – Etoile Nord, 6 January 2025

Time	Topic	Speaker
09:00 – 09:15	Green nanotechnology	ZYCH GONZALEZ ALBO, C.
09:15 – 09:30	Biologically inspired nano-assembly: DNA origami	ZHUMANIYAZOV, K.
09:30 – 09:45	Biocompatible materials for medical applications	SANCHEZ, J. D.
09:45 – 10:00	Chromophore development for sunscreen	GUZMÁN, J.
10:00 – 10:15	Cellulose nanomaterials	FIZZA, F.
10:15 – 10:30	Nanotechnology for carbon capture	PEREZ SIGUENZA, J.
10:30 – 10:45	Applications of Nanoporous Materials in Gas and Liquid Adsorption	IBRAHIMOVA, F.
10:45 – 11:00	Break	
11:00 – 11:15	Nanomaterials for electrocatalytic water splitting for hydrogen generation	MOUSA, A.
11:15 – 11:30	Metal and Metal Oxide Nanoparticles in Water Purification	KARAGODA GAMAGE, D.
11:30 – 11:45	Carbon-Based Nanomaterials for Water Treatment	CHERUKUNNATH PAPPINISSERI, V.
11:45 – 12:00	Nano-Engineered Photocatalysts for Water Treatment	SULEIMAN, S.
12:00 – 12:15	Nanocomposite Membranes for Advanced Filtration	SAEED, M.
12:15 – 13:45	Lunch	
13:45 – 14:00	Design and Synthesis of Nanoporous Materials for Adsorption	VITHANAGE, A. S.
14:00 – 14:15	New developments in high-temperature superconductivity	MRKONJIC, M.
14:15 – 14:30	Oxygen Evolution Reaction (OER) Catalysts in Zn-air Batteries	LAI, P. M.
14:30 – 14:45	Mechanical and Thermal Properties of Graphene-Reinforced Aluminum Alloy Nanocomposites	JUMAMYRATOV, A.
14:45 – 15:00	Synthesis and Fabrication of Graphene-Reinforced Aluminum Alloy Nanocomposites	ABAD, N.
15:00 – 15:15	Graphene oxide	AKIK, R.
15:15 – 15:30	Break	
15:30 – 15:45	Artificial intelligence for nanoengineering	RYAN, J.
15:45 – 16:00	Inorganic photovoltaics	MUIGAI, S.
16:00 – 16:15	Thermally activated delayed fluorescence	VILLEGAS, E.
16:15 – 16:30	Quantum dots	ANSARI, N.

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