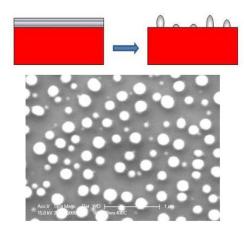
Investigation of plasmonic nanostructures for photovoltaic applications

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Excitation of localized surface plasmon resonance in illuminated metal nanoobjects results in strong light scattering and near electric field enhancement. Beside many other applications these two phenomena can be



used for light management and optical losses reduction in photovoltaic devices. The poster will demonstrate possible application of silver nanoparticles in solar cells as well as of description methods for plasmonic nanostructures manufacturing. Preliminary results will be shown for each introduced method. For the best samples thorough properties microstructure optical and

investigation results will be presented. Conclusions will be derived with respect to earlier prepared simulation results.