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Abstract for an Invited Paper  
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**Nanophotonic phenomena in systems of macroscopic sizes**

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Nanophotonic techniques provide unprecedented opportunities for controlling behavior of light. However, to make these techniques useful for many applications of interest (e.g. energy applications) one has to have the ability to implement nanophotonic techniques in systems of large sizes. I will present some promising novel nanophotonic phenomena, as well as some fabrication techniques to implement them on large scales.