



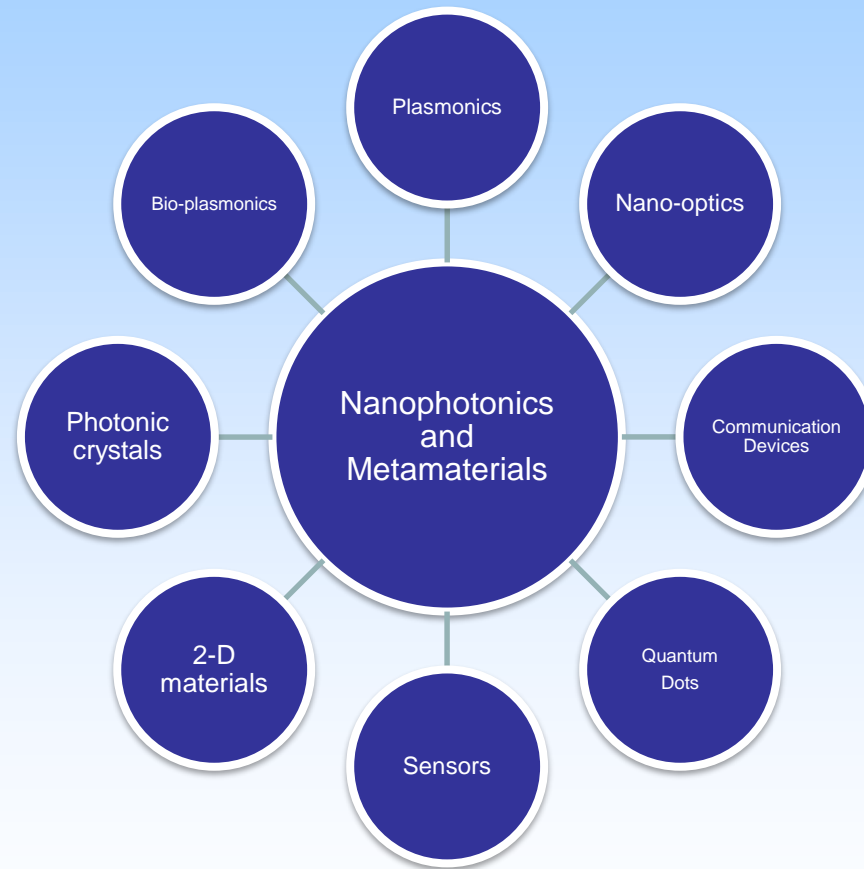
BRICS Meeting, October 2020

# Nanophotonics and Metamaterials

Sushil Mujumdar

Nano-optics and Mesoscopic Optics Laboratory,  
Tata Institute of Fundamental Research,  
Mumbai 400005 India.  
<http://www.tifr.res.in/~mujumdar>

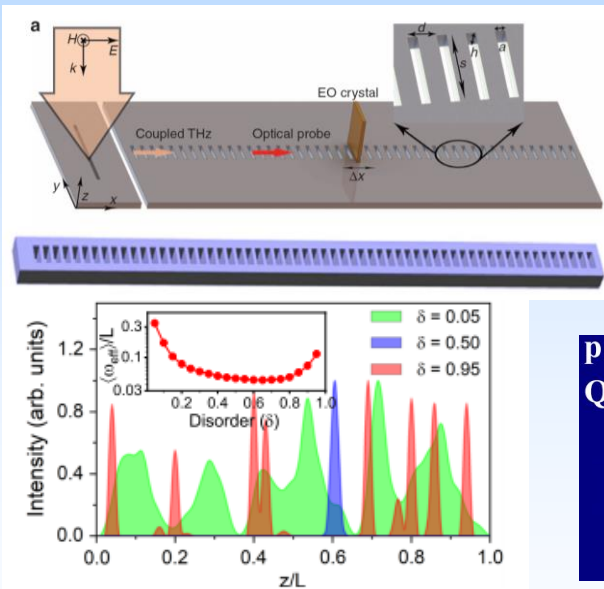
# Nanophotonics and Metamaterials



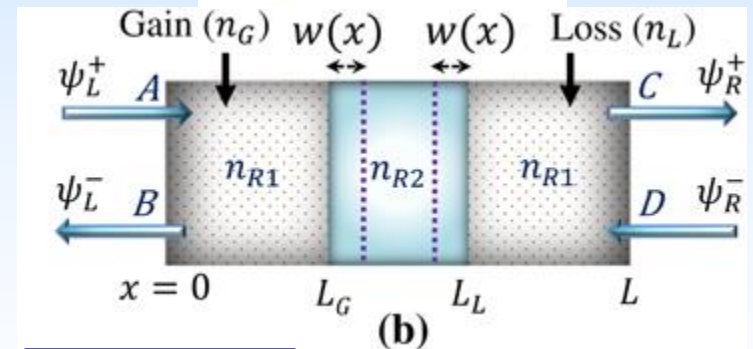
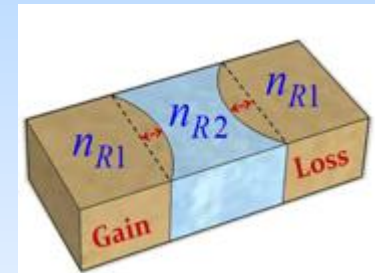
# Nano-Optics/Photonics

Tata Institute of Fundamental Research,  
Mumbai.

Indian Institute of Technology, Jodhpur.



Phys. Rev. Lett. 124, 123901 (2020)

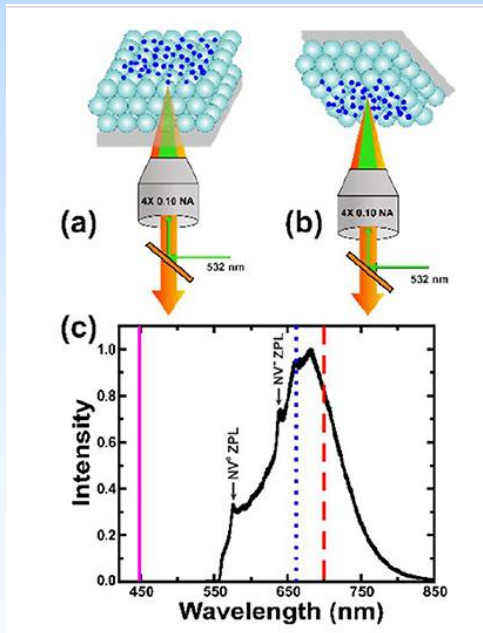


J. Opt, 21, 2019

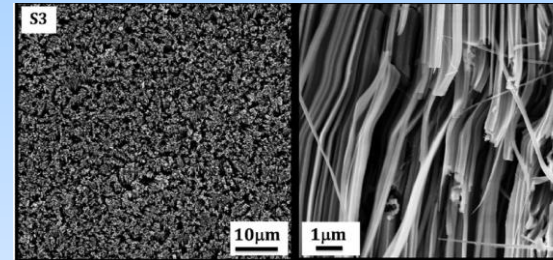
# Nano-Optics/Photonics

Raja Ramanna Center for Advanced Technologies,  
Indore.

Indian Institute of Technology, Ropar

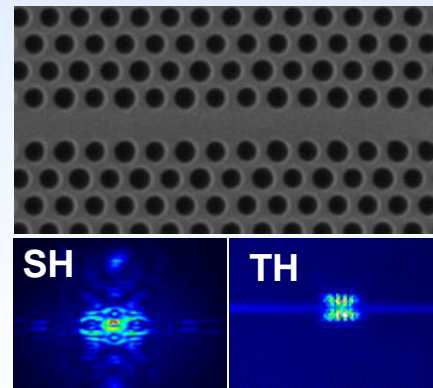


J. Opt., 22, 9 (2020)



Journal of Luminescence 214 (2019) 116551

Indian Institute of Technology, Kharagpur.

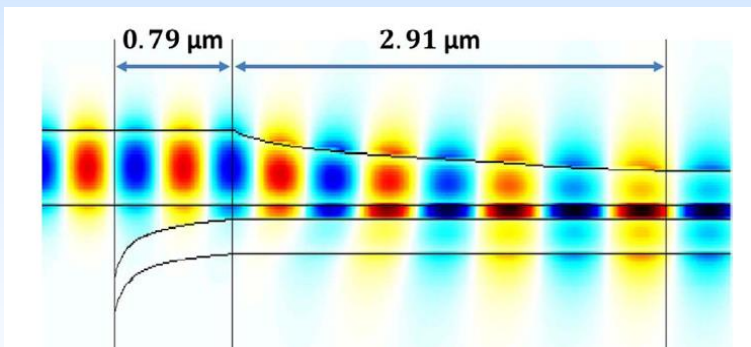
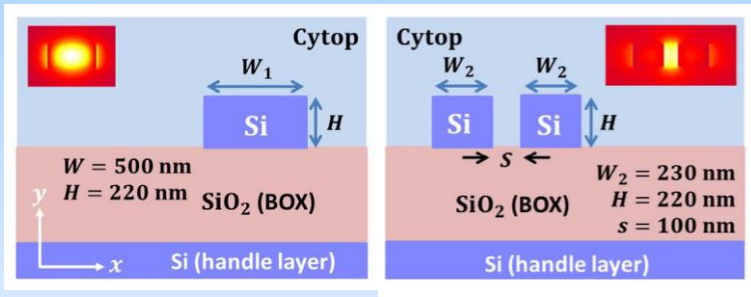


Applied Physics Letters 114 (13), 131103

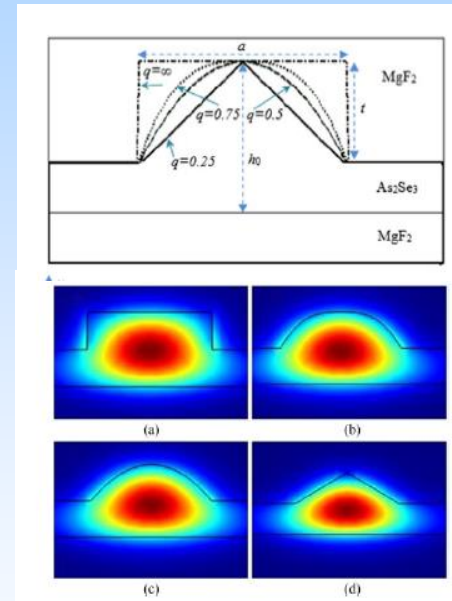
# Photonic Device Design & Analysis

University of Delhi, New Delhi

Central Scientific Instruments Organization, Chandigarh



Eng. Res. Express 2 (2020) 035014

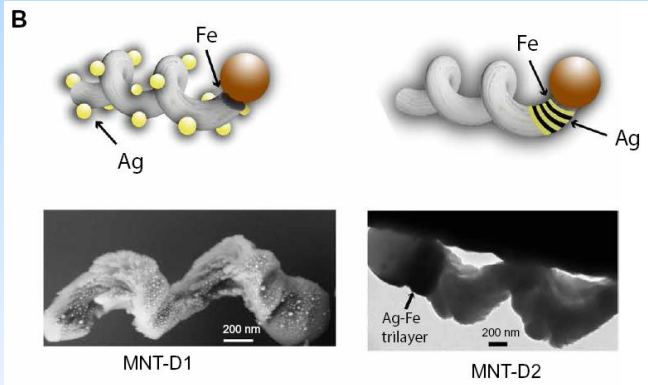


Jour. of Light. Tech, 36, 10, 2018

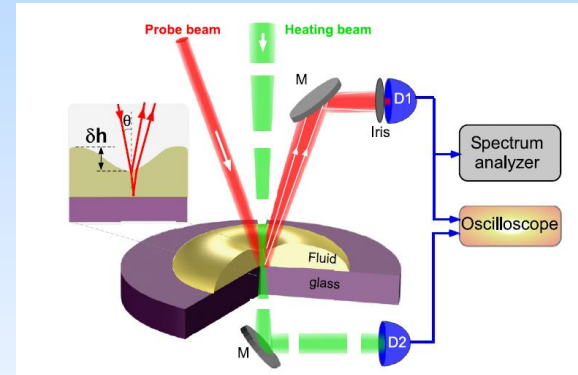
# Nano-opto-mechanics

Indian Institute of Science,  
(IISc) Bangalore

Indian Institute of Science, Education  
And Research (IISER) Mohali



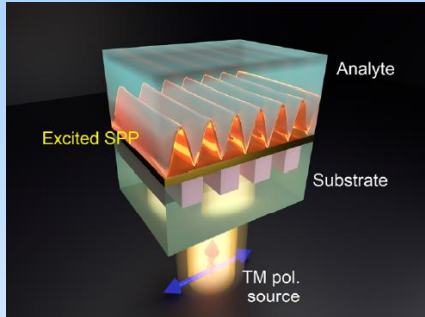
*Sci. Robot.* **3**, eaaq0076 (2018)



*Appl. Phys. Lett.* **115**, 251103 (2019);

# Plasmonics

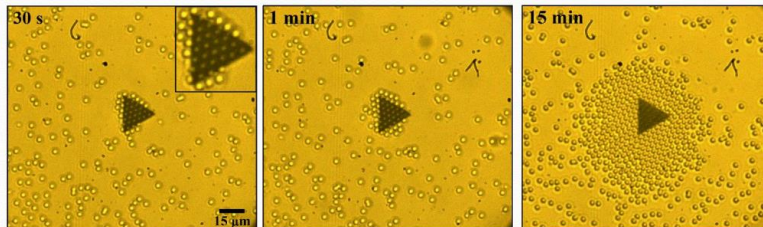
Indian Institute of Technology, Delhi



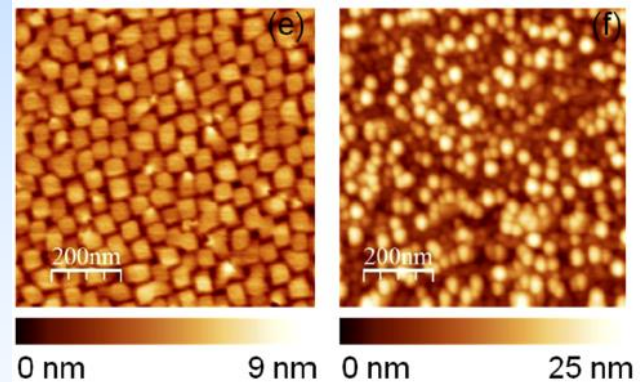
ACS Appl. Mater. Interfaces 2020.

JNCASR (Jawaharlal Nehru Center for Advanced Scientific Research), Bangalore.

Indian Institute of Science, Education and Research, Pune



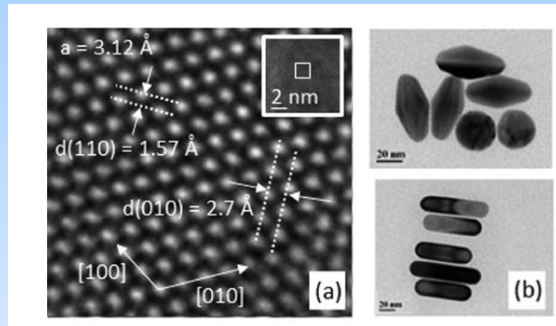
J. Phys.: Condens. Matter 32 (2020) 324002



Opt. Maat. Exp. 10 (2020) 2679

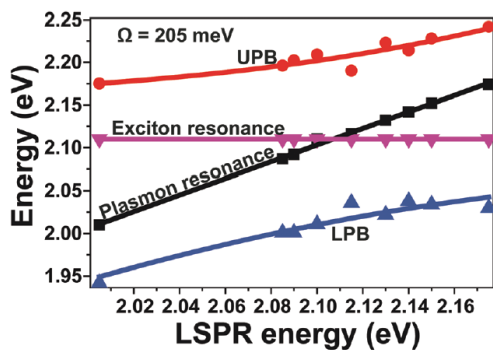
# Plasmons/2D Materials/Excitons

Indian Institute of Technology, Bombay



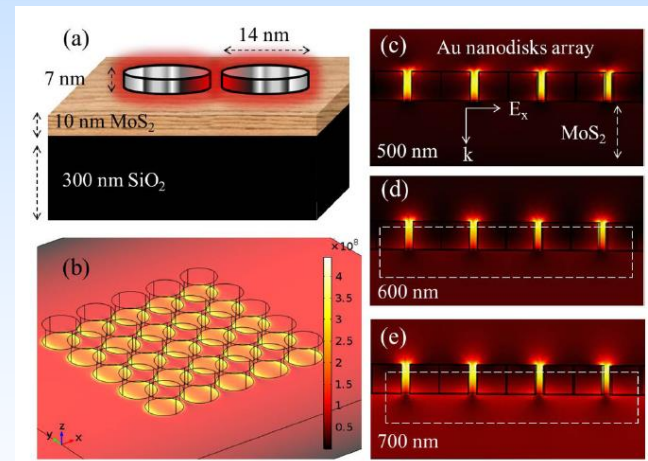
J. Phys. Chem. C 2019, 123, 17943–17950

Indian Institute of Technology, Kanpur



Nanoscale, 2020, 12, 11612–11618

Indian Institute of Technology, Kharagpur



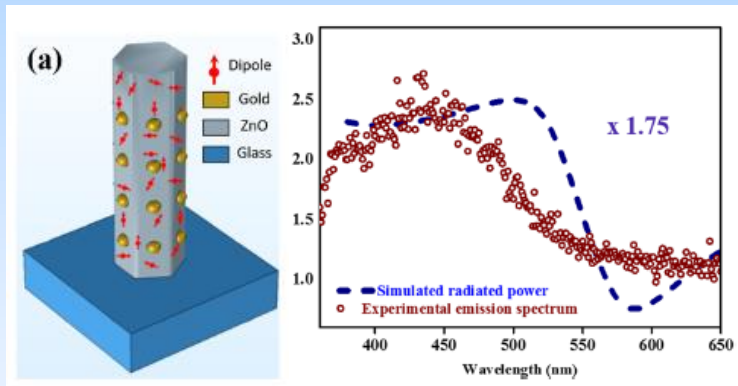
Phy. Rev B 101, 245442 (2020)



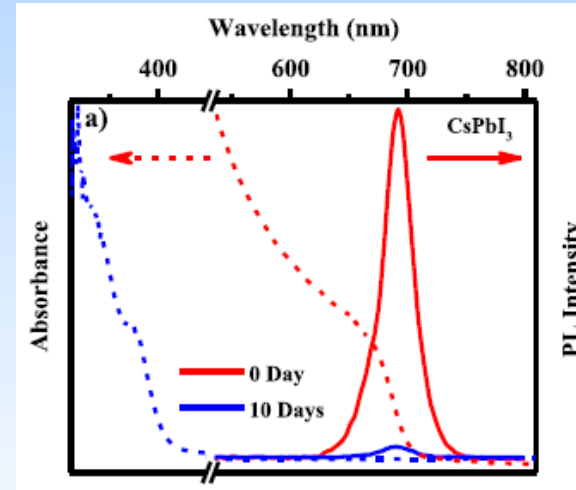
# Plasmons/Q-dots

Indian Institute of Science, Education and Research, Thiruvananthapuram

Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore.



J. Chem. Phys. **152**, 064704 (2020);

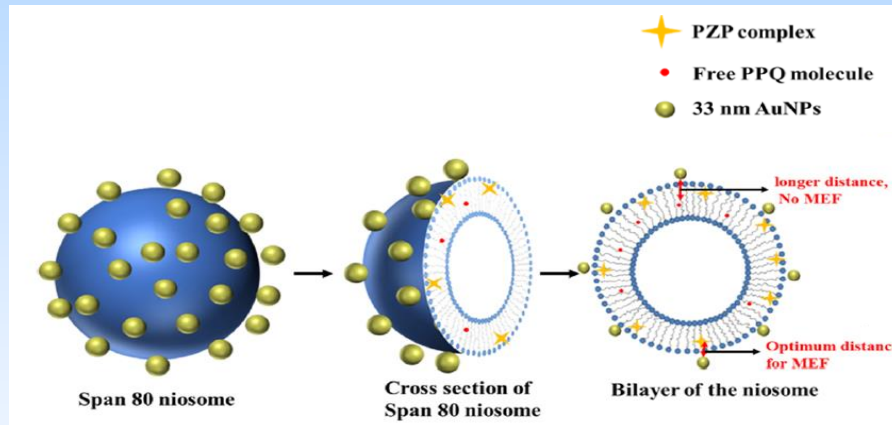


Mater. Res. Express 6 (2019) 114004

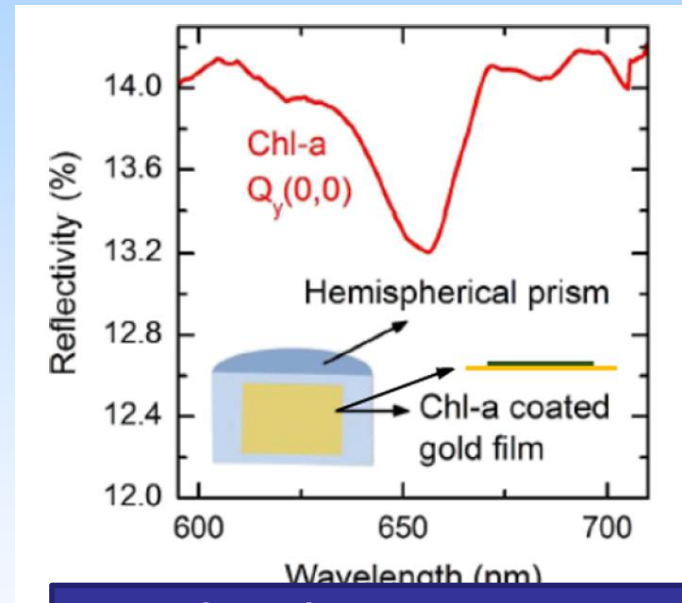
# Bio-relevant plasmonics

Birla Institute of Technology and Science Pilani,  
Hyderabad

Indian Institute of Technology, Bombay



ACS Omega 2019, 4, 5983–5990

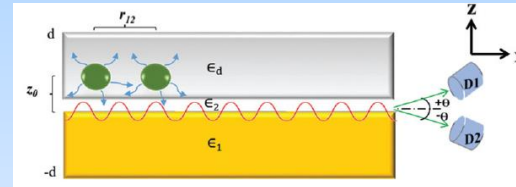
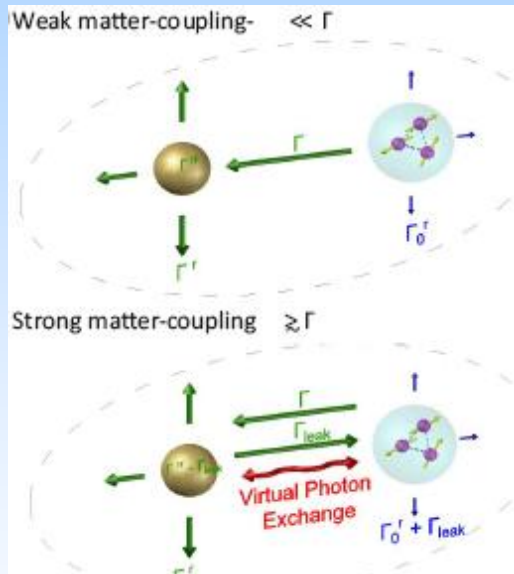


J. Phys. Chem. C 2019, 123, 16965–16972

# Quantum Plasmonics

Indian Institute of Science, Bangalore

Indian Institute of Technology, Ropar

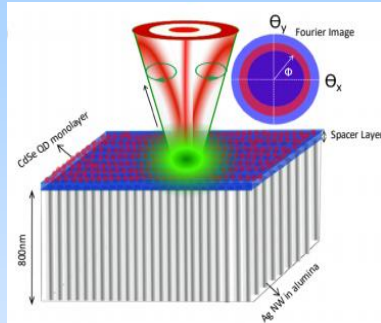


Nanoscale, 2020, 12, 256–261

Phys Rev B **100**, 155413 (2019)

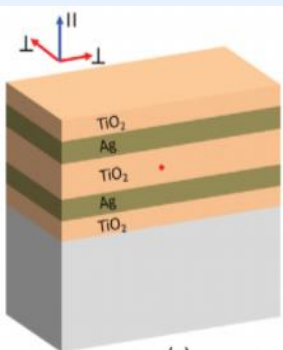
# Metamaterials

Indian Institute of Science, Bangalore



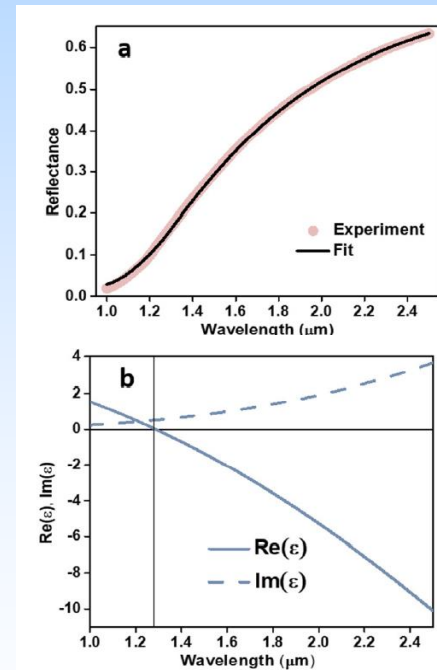
Jour. Phy (Cond. Matt.), 33, 1(2020)

Tata Institute of Fundamental Research, Mumbai



Adv. Optical Mater. 2020, 2000368

Indian Institute of Science, Education and Research, Thiruvananthapuram

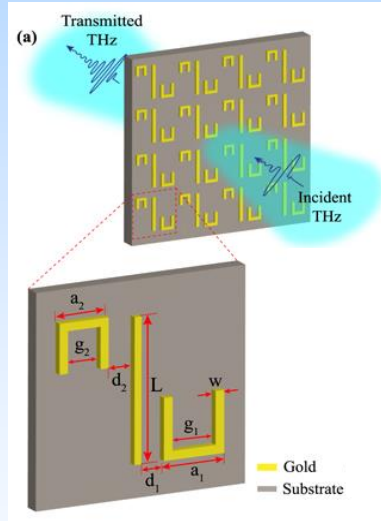


J. Appl. Phys. 127, 043102 (2020)

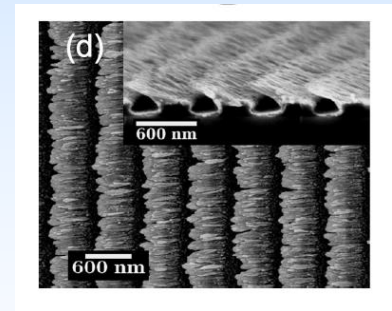
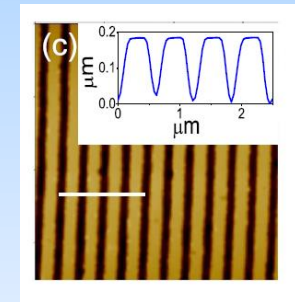
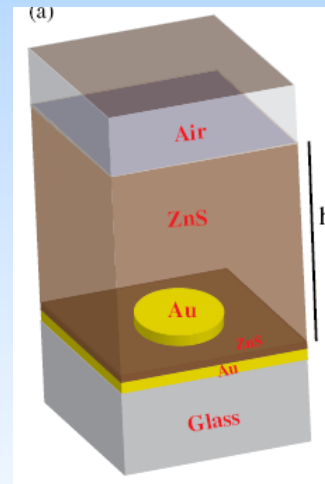
# Metamaterials

Indian Institute of Technology, Guwahati.

Indian Institute of Technology, Kanpur.



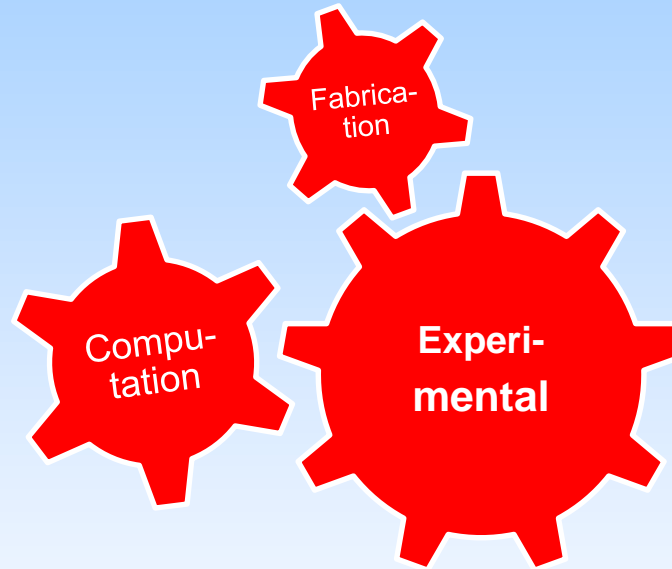
J. of. Opt, 22, 2020



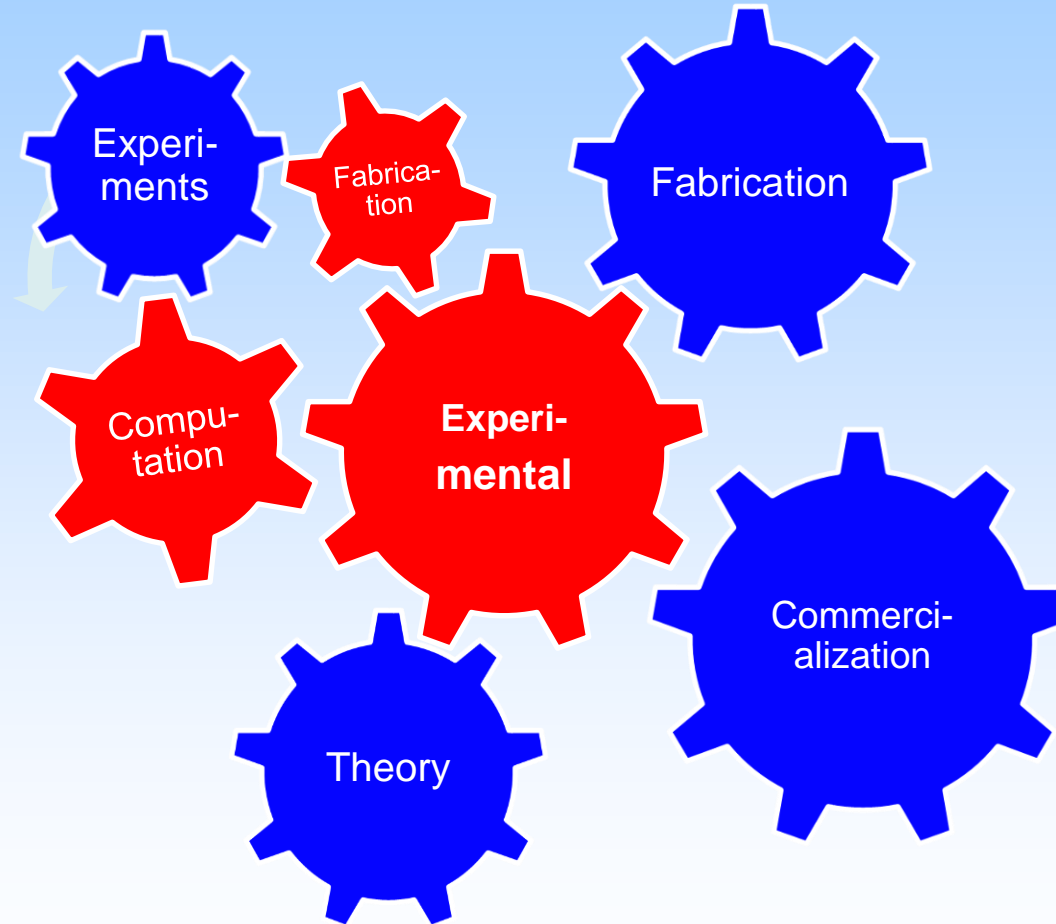
App Opt, 5, E118, 2020



# Possible Synergy



# Possible Synergy



# Possible Synergy

