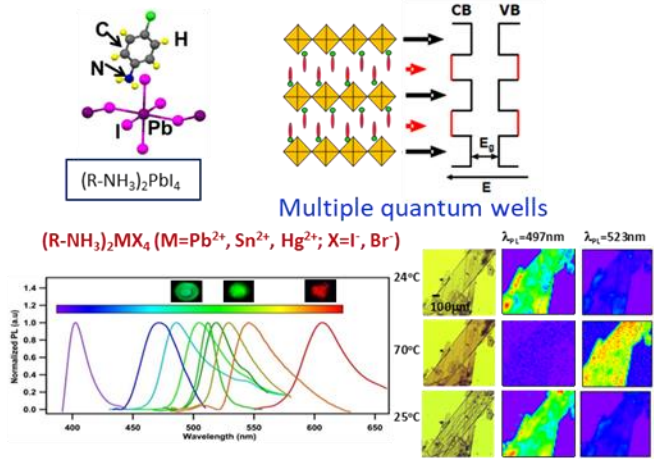
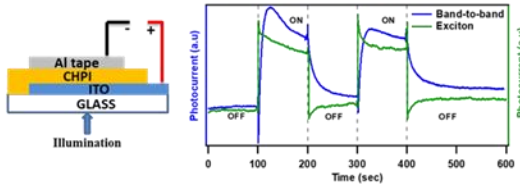


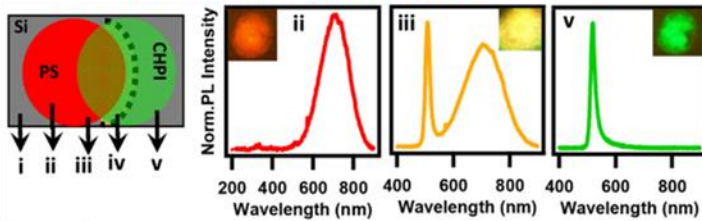
## Inorganic-Organic Hybrid Perovskites



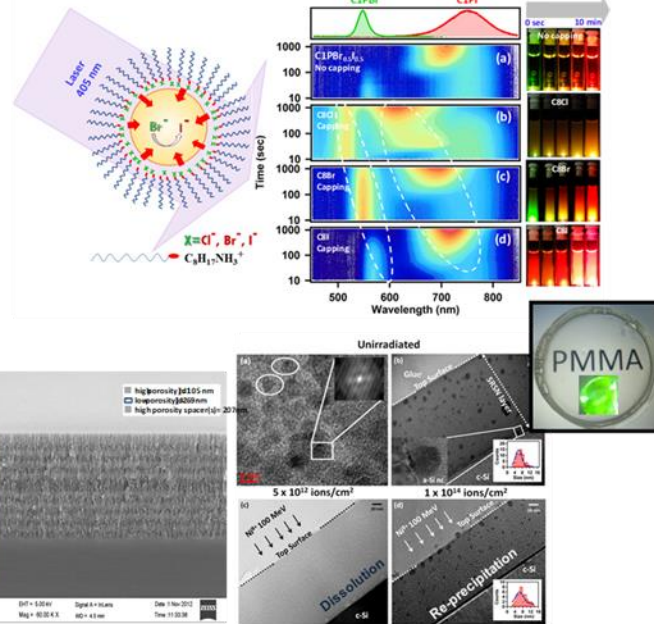
## IO photonic devices



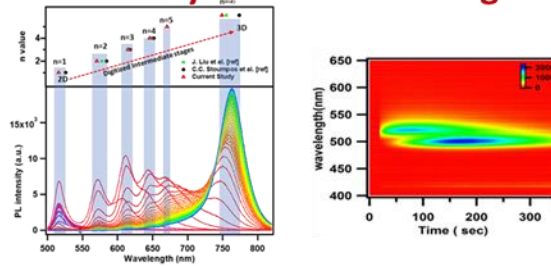
## Photonic Composites



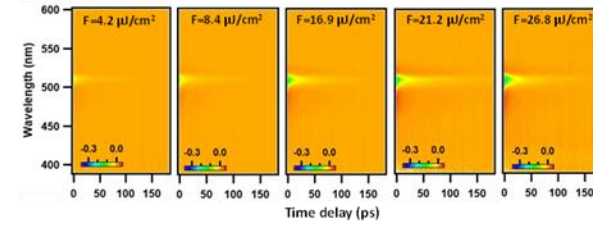
## Nanoparticles & nanophosphors



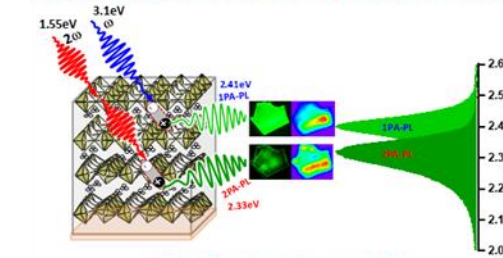
## PL dynamic monitoring



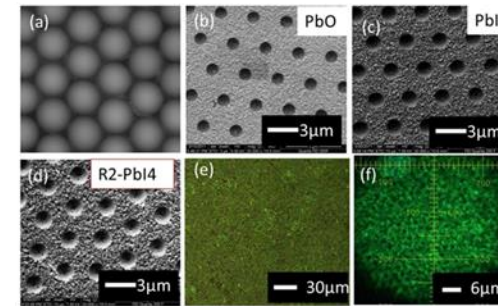
## Absorption ultrafast Dynamics



## Two-photon PL spectroscopy and imaging



## 2D Photonic crystals



## Funding agencies

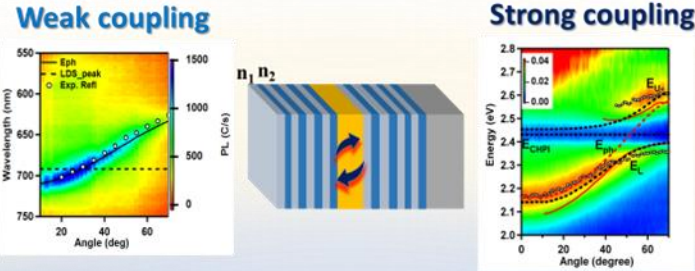
- DST
- UKIERI
- MCIT
- Indo-Ireland
- HIR (IITD)
- NRF (MCIT)

## Publications (>250)

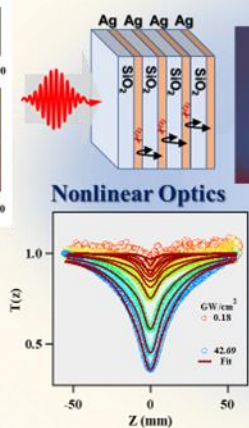
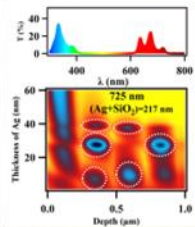
- ACS Photonics (2022)
- Chem. Mater. (2023)
- ACS Appl. Mater. Inter. (2015, 14)
- Sci. Rep. (2020)
- Inorg. Chem. (2023, 22, 22, 22, 14, 12)
- Appl. Surf. Sci. (2022, 21, 20, 17, 11)
- Appl. Phys. Lett. (2009, 09, 08, 06, 05)
- Adv. Mater. Interfaces (2021, 20)
- J. Phys. Chem. C (2023, 22, 21)
- J. Appl. Phys. (2022, 20, 14, 14, 13, 13, 12, 12)
- Chem. Eur. J. (2023)
- J. Phys. D (2021, 2009, 08, 08)
- ACS Appl. Ener. Mater. (2023)
- Dalton Transactions (2022, 21, 21, 20)
- ACS Appl. Electron. Mater. (2021)
- Opt. Laser Technol. (2022, 22, 21, 21)
- Opt. Express (2009, 05)
- Opt. Mater. (2020, 2021, 2022)
- Mater. Sci. Eng. B (2005, 05)



## Electron-photon Interactions



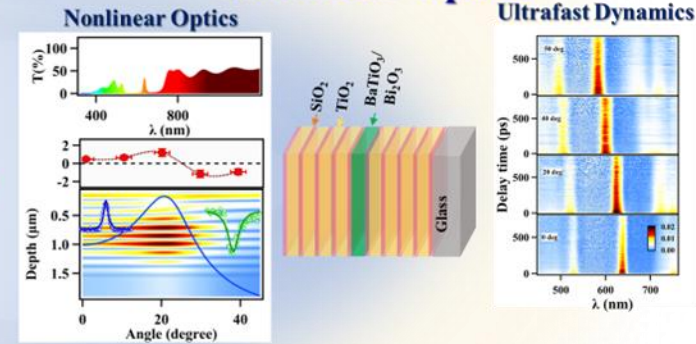
## Photonic structures



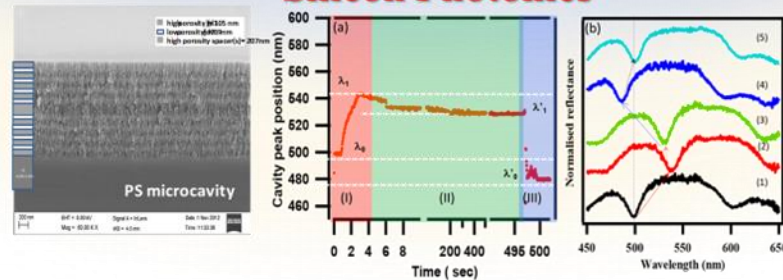
## Ultrafast Dynamics

## Light-Matter Interactions @ $\lambda$ -scale

## Ultrafast Dynamics and Nonlinear Optics



## Silicon Photonics



## Funding agencies

- DST
- UKIERI
- MCIT
- Indo-Ireland
- HIR (IITD)
- NRF (MCIT)

## Publications (>250)

- ACS Photonics (2022)
- Chem. Mater. (2023)
- ACS Appl. Mater. Inter. (2015, 14)
- Sci. Rep. (2020)
- Inorg. Chem. (2023, 22, 22, 22, 14, 12)
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- J. Appl. Phys. (2022, 20, 14, 14, 13, 13, 13, 12, 12)
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- Mater. Sci. Eng. B (2005, 05)

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