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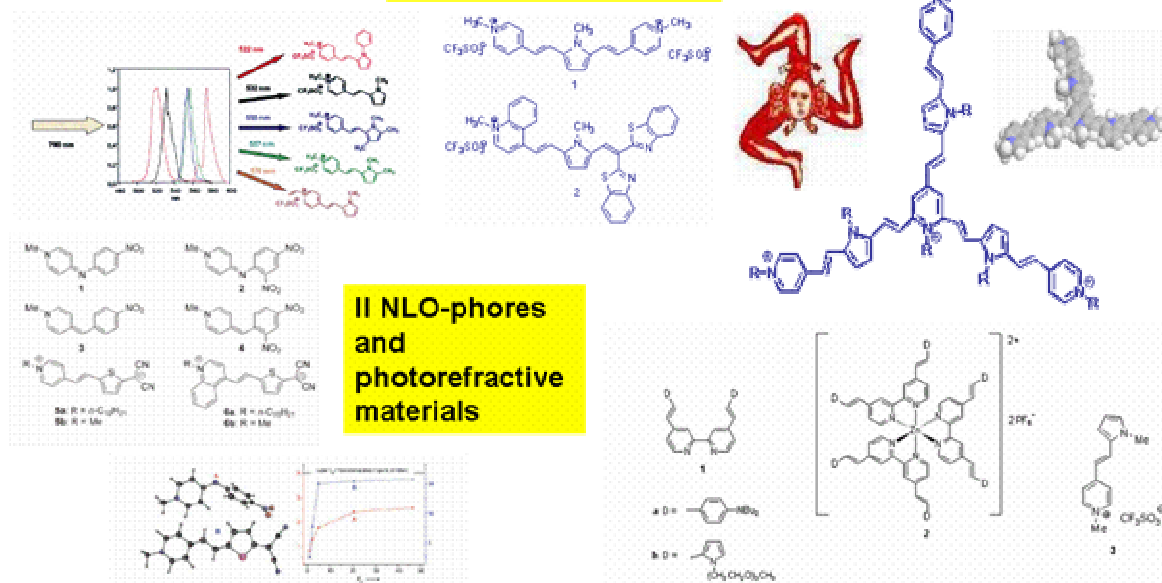
The Milano-Bicocca group is involved in the design, synthesis, and characterization of organic and organometallic chromophores for molecular multifunctional materials.

Addressed topics include: nonlinear optics, intermolecular interactions, plasmonics, solar cells, photonic crystals, optoelectronics, photorefractive materials, bio-imaging and ion-sensing, photodynamic therapy.

The nature of the investigated materials range from 1D-3D polar and polarizable organic chromophores and multichromophores to hybrid organic-inorganic materials, chromophore-metal nanoparticles and surfaces, dye-infiltrated photonic crystals, molecular antennas, ion-sensing and ion-templating NLO-phores, multi-branched dyes, functional polymeric and sol-gel materials, and semiconducting polymers.

Main available facilities are: a) fully equipped laboratories for sophisticated organic syntheses; b) 200, 400 and 500 MHz multinuclei NMR spectrometers; c) UV-VIS and FT-IR spectrometers; d) spectrofluorometer; e) high-vacuum diffusion pumps; f) glove-box for air- and water-sensitive handling; g) thermal curing facilities; h) coating facilities.

Two-photon absorbers



II NLO-phores and photorefractive materials

Selected publications.

Abbotto, A.; Beverina, L.; Bozio, R.; Bradamante, S.; Ferrante, C.; Pagani, G. A.; Signorini, R. *Adv. Mater.* **2000**, *12*, 1963-1967; Abbotto, A.; Beverina, L.; Bozio, R.; Facchetti, A.; Ferrante, C.; Pagani, G. A.; Pedron, D.; Signorini, R. *Org. Lett.* **2002**, *4*, 1495-1498; Abbotto, A.; Beverina, L.; Bradamante, S.; Facchetti, A.; Klein, C.; Pagani, G. A.; Redi-Abshiro, M.; Wortmann, R. *Chem. Eur. J.* **2003**, *9*, 1991-2007; Abbotto, A.; Beverina, L.; Bozio, R.; Facchetti, A.; Ferrante, C.; Pagani, G. A.; Pedron, D.; Signorini, R. *Chem. Commun.* **2003**, *17*, 2144-2145; Archetti, G.; Abbotto, A.; Wortmann, R. *Chem. Eur. J.* **2006**, *12*, 7151-7160; Mazzucato, S.; Fortunati, I.; Scolaro, S.; Zerbetto, M.; Ferrante, C.; Signorini, R.; Pedron, D.; Bozio, R.; Locatelli, D.; Righetto, S.; Roberto, D.; Ugo, R.; Abbotto, A.; Archetti, G.; Beverina, L.; Ghezzi, S. *Phys. Chem. Chem. Phys.* **2007**, *9*, 2999-3005.