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His research interests include nano-structures, photonic crystals, meta-materials, plasmonic structures, non-hermitian electromagnetic problems, tunneling problems in dispersive and absorbing materials, guided propagation, diffraction and super-resolution, ultra-short pulse propagation in linear and nonlinear materials, dispersion-free propagation, nonlinear interactions in quadratic and cubic materials, and Green's function and density of modes for finite structures. Dr. D'aguanno is the coauthor of more than 130 publications including peer reviewed journals and conference proceedings, has 5 book contributions, and also holds 4 patents in the field of nano-photonics and metamaterials. He is a member of the Optical Society of America.