

Selected Publications

1. **Lijun Yang**, D. Abramavicius, and S. Mukamel, "*Signatures of Three-exciton Correlations in the Coherent and Incoherent Nonlinear Optical Response of Photosynthetic Complexes*," **New J. Phys.** **12**, 065046 (2010).
<https://iopscience.iop.org/article/10.1088/1367-2630/12/6/065046>
2. **Lijun Yang** and Shaul Mukamel, *Dissecting quantum pathways in two-dimensional correlation spectroscopy of semiconductors*, **J. Phys.: Condens. Matter**, **20**, 395202 (11 pages) (2008).
<https://mukamel.ps.uci.edu/publications/pdfs/615.pdf>
3. **Lijun Yang** and Shaul Mukamel, *Revealing exciton-exciton couplings in semiconductors by multidimensional four wave mixing signals*, **Phys. Rev. B.**, **77**, 075335 (11 pages) (2008).
<https://mukamel.ps.uci.edu/publications/pdfs/585.pdf>
4. **Lijun Yang** and Shaul Mukamel, *Two-dimensional correlation spectroscopy of two-exciton resonances in semiconductor quantum wells*, **Phys. Rev. Lett.**, **100**, 057402 (4 pages) (2008).
<https://mukamel.ps.uci.edu/publications/pdfs/573.pdf>
5. **Lijun Yang**, Igor Schweigert, Steven T. Cundiff and Shaul Mukamel, *Two-Dimensional Optical Spectroscopy of Excitons in Semiconductor Quantum Wells: Liouville-Space Pathways Analysis*, **Phys. Rev. B** **75**, 125302 (15 pages) (2007).
<https://mukamel.ps.uci.edu/publications/pdfs/557.pdf>
6. **Lijun Yang** and M. M. Dignam, *Nonlinear Ultrafast Optical Absorption and Pump-Probe Spectroscopy in Biased Semiconductor Superlattices*, **Phys. Rev. B** **73**, 035334 (8 pages) (2006).
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.73.035334>
7. **Lijun Yang** and Marc M. Dignam, *Self-generated Bloch Oscillations in Biased Semiconductor Superlattices*, **Phys. Rev. B** **73**, 075319 (8 pages) (2006).
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.73.075319>
8. **Lijun Yang**, Ben Rosam, and Marc M. Dignam, *Density-Dependent THz Emission in Biased Semiconductor Superlattices: from Bloch Oscillations to Plasma Oscillations*, **Phys. Rev. B** **72**, 115313 (12 pages) (2005).
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.72.115313>
9. Ben Rosam, Karl Leo, **Lijun Yang**, and Marc M. Dignam, *Terahertz Generation by Difference Frequency Mixing of Excitonic Wannier-Stark Ladder States in Biased Semiconductor Superlattices*, **Appl. Phys. Lett.** **85**, 4612 (3 pages) (2004).
<https://aip.scitation.org/doi/10.1063/1.1819508>

10. **Lijun Yang**, Ben Rosam, Jean-Marc Lachaine, Karl Leo, and Marc M. Dignam, *Intraband Polarization and THz Emission in Biased Semiconductor Superlattices with Full Excitonic Basis*, **Phys. Rev. B 69, 165310 (12 pages) (2004)**.
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.69.165310>
11. Aizhen Zhang, **Lijun Yang**, and Marc M. Dignam, *Influence of Excitonic Effects on Dynamic Localization in Semiconductor Superlattices in Combined dc and ac Electric Fields*, **Phys. Rev. B 67, 205318 (7 pages) (2003)**.
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.67.205318>