Publications

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Journal article

1. Pieczarka M, Estrecho E, Boozarjmehr M, Bleu O, Steger M, West K, Pfeiffer L, Snoke D, Levinsen J, Parish M, Truscott A, Ostrovskaya E.*Observation of quantum depletion in a non-equilibrium exciton?polariton condensate* **Nature Communications 11**, 429(2020)

2. Pieczarka M, Boozarjmehr M, Estrecho E, Yoon Y, Steger M, West K, Pfeiffer L, Nelson K, Snoke D, Truscott A, Ostrovskaya E. *Effect of optically induced potential on the energy of trapped exciton polaritons below the condensation threshold*
Physical Review B 100, 8(2019) 1-11

3. Estrecho E, Gao T, Bobrovska N, Comber Todd D, Fraser M, Steger M, West K, Pfeiffer L, Levinsen J, Parish M, Liew T, Matuszewski M, Truscott A, Ostrovskaya E.*Direct measurement of polariton-polariton interaction strength in the Thomas-Fermi regime of exciton-polariton condensation*. **Physical Review B 100**, 3(2019) 1-10.

4. Waldherr M, Lundt N, Klaas M, Betzold S, Wurdack M, Baumann V, Estrecho E, Nalitov A, Cherotchenko E, Cai H, Ostrovskaya E, Kavokin A, Tongay S, Klembt S, Hofling S, Schneider C. *Observation of bosonic condensation in a hybrid monolayer MoSe2-GaAs microcavity*. **Nature Communications 9**(2018) 6

5. Gao T, Li G, Estrecho E, Liew T, Comber Todd D, Nalitov A, Steger M, West K, Pfeiffer L, Shoke D, Kavokin A, Truscott A, Ostrovskaya E. *Chiral Modes at Exceptional Points in Exciton-Polariton Quantum Fluid*. **Physical Review Letters 120**, 6(2018) 1-7

6. Gao T, Egorov O, Estrecho E, Winkler K, Kamp M, Schneider C, Hofling S, Truscott A, Ostrovskaya E. *Controlled Ordering of Topological Charges in an Exciton-Polariton Chain*. **Physical Review Letters 121**, 22(2018) 1-6

7. Estrecho E, Gao T, Bobrovska N, Fraser M, Steger M, Pfeiffer L, West K, Liew T, Matuszewski M, Snoke D, Truscott A, Ostrovskaya E. *Single-shot condensation of exciton polaritons and the hole burning effect*. **Nature Communications 9**(2018) 9

8. Winkler K, Egorov O, Schneider C, Ma X, Estrecho E, Gao T, Muller S, Kamp M, Liew T, Ostrovskaya E, Hofling S, Savenko I. *Collective state transitions of exciton-polaritons loaded into a periodic potential*. **Physical Review B: Condensed Matter and Materials 93**, 12(2016) 121303 6

9. Estrecho E, Gao T, Brodbeck S, Kamp M, Schneider C, Hofling S, Truscott A, Ostrovskaya E. *Visualising Berry phase and diabolical points in a quantum exciton-polariton billiard*. **Scientific Reports 6**, 37653(2016) 1-7

10. Gao T, Estrecho E, Li G, Egorov O, Ma X, Winkler K, Kamp M, Schneider C, Hofling S, Truscott A, Ostrovskaya E. *Talbot Effect for Exciton Polaritons*. **Physical Review Letters 117**, 9(2016)

11. Gao T, Estrecho E, Bliokh K, Liew T, Fraser M, Brodbeck S, Kamp M, Schneider C, Hofling S, Yamamoto Y, Nori F, Kivshar Y, Truscott A, Dall R, Ostrovskaya E. *Observation of non-Hermitian degeneracies in a chaotic exciton-polariton billiard*. **Nature 526**, 7574(2015) 554-U203.

Conference paper

1. Gao T, Estrecho E, Li G, Egorov O, Ma X, Winkler K, Kamp M, Schneider C, Truscott A, Hofling S, Ostrovskaya E *Talbot effect for exciton-polaritons*. **2016 OSA Photonics and Fiber Technology Conference.** (2016)

2. Estrecho E, Gao T, Fraser M, Comber Todd D, Schneider C, Hofling S, Pfeiffer L, West K, Steger M, Snoke D, Ostrovskaya E, Truscott A. *Four-wave mixing of spontaneously created exciton- polariton condensates*. **2016 OSA Photonics and Fiber Technology Conference.(**2016)

3. Estrecho E, Gao T, Fraser M, Comber Todd D, Schneider C, H  fling S, Pfeiffer L, West K, Steger M, Snoke D, Ostrovskaya E, Truscott A. *Four-Wave Mixing of Spontaneously Created Exciton-Polariton Condensates*. **2016 OSA Photonics and Fiber Technology Conference.** (2016) 1-2

Journal short contribution (non refereed)

4. Estrecho E, Gao T, Bobrovska N, Fraser M, Steger M, Pfeiffer L, West K, Liew T, Matuszewski M, Snoke D, Truscott A, Ostrovskaya E. *Publisher Correction: Single-shot condensation of exciton polaritons and the hole burning effect*. **Nature Communications 9**(2018)