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Absorption, luminescence and scattering of single nano-objects

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Curriculum vitae

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- 1998-2002 Secondary school, Selçuklu Anadolu Lisesi, Konya, Turkey
- 2002-2007 B.Sc. Physics, Bilkent University, Ankara, Turkey
- 2007-2009 M.Sc. Materials Science and Engineering, Koç University, İstanbul, Turkey
- Thesis: Single molecule tracing in confined geometries
- Advisor: Assoc. Prof. dr. A. Kiraz
- 2009-2013 Ph.D. research at Leiden University, Leiden, the Netherlands
- Thesis: Absorption, luminescence and scattering of single nano-objects
- Advisor: Prof. dr. M. A. G. J. Orrit
- Teaching assistant in Physics Research laboratory course (Natuurkundig Onderzoek)
- 2013-2014 Postdoctoral Fellow at Leiden University
- Advisor: Prof. dr. M. A. G. J. Orrit
- 2014- Postdoctoral Fellow at Rice University
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List of publications

- H. Yuan, S. Khatua, P. Zijlstra, **M. Yorulmaz**, M. Orrit, *Thousand-fold enhancement of single-molecule fluorescence near a single gold nanorod*, *Angew. Chem. Int. Ed.* **52**, 1217-1221 (2013).
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- A. Gaiduk, **M. Yorulmaz**, P. V. Ruijgrok, and M. Orrit, *Room-temperature detection of a single molecule's absorption by photothermal contrast*, *Science* **330**, 353-356 (2010).

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- A. Gaiduk, P. V. Ruijgrok, **M. Yorulmaz** and M. Orrit, *Detection limits in photothermal microscopy*, *Chemical Science* **1**, 343-350 (2010).
- A. Kiraz, S. C. Yorulmaz, **M. Yorulmaz**, and A. Sennaroglu, *Raman lasing near 650 nm from pure water microdroplets on a superhydrophobic surface*, *Photonics and Nanostructures - Fundamentals and Applications* **7**, 186-189 (2009).
- **M. Yorulmaz**, A. Kiraz, A. L. Demirel, *Motion of Single Terrylene Molecules in Confined Channels of Poly(butadiene)-Poly(ethylene oxide) Diblock Copolymer*, *The Journal of Physical Chemistry B* **113**, 9640-9643 (2009).

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