Yusuf Keleştemur, Ph.D.
Assistant Professor
Atılım University
Department of Metallurgical and Materials Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
yusuf.kelestemur@atilim.edu.tr
Tel: +90 312 586 83 06

PERSONAL

Date of Birth	15/10/1987
Place of Birth	Elazığ

EDUCATION

2012-2017	Bilkent University, Institute of Material Science and Nanotechnology, Ph.D.
2010-2012	Bilkent University, Institute of Material Science and Nanotechnology, M.S.
2005-2010	Middle East Technical University, Metallurgical & Materials Engineering, B.S.

ACADEMIC POSITIONS

02/2020	Assistant Professor**,** Department of Metallurgical and Materials Engineering**,** Atilim University, Turkey
08/2017-12/2019	Marie Curie Research Fellow, Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland

HONORS&AWARDS

1	Marie Skłodowska-Curie Individual Fellowship (2018)
2	Optics and Photonics Education Scholarship awarded by SPIE (2015)
3	Graduate Student Fellowship (PhD) awarded by TÜBİTAK (2012)
4	Graduate Student Fellowship (MS) awarded by TÜBİTAK (2010)

RESEARCH INTERESTS

1	Colloidal synthesis of semiconductor nanocrystals
2	Assembly and surface chemistry of semiconductor nanocrystals
3	Optoelectronic applications of semiconductor nanocrystals
4	Nanomaterials
5	Optical and structural characterization of nanomaterials

SELECTED PUBLICATIONS

1	**Y. Kelestemur,** Y. Shynkarenko, M. Anni, S. Yakunin, M. L. De Giorgi, M. V. Kovalenko, Colloidal CdSe Quantum Wells with Graded Shell Composition for Low-Threshold Amplified Spontaneous Emission and Highly Efficient Electroluminescence, ACS Nano, 13, 13899, 2019.
2	**Y. Kelestemur**, D. Dede, K. Gungor, C. F. Usanmaz, O. Erdem, and H. V. Demir, Alloyed heterostructures of $CdSe_xS_{1-x}$ nanoplatelets with highly tunable optical gain performance, Chemistry of Materials, 29, 4857, 2017.
3	**Y. Kelestemur**, B. Guzelturk, O. Erdem, M. Olutas, T. Erdem, C. F. Usanmaz, K. Gungor, and H. V. Demir, $CdSe/CdSe_{1-x}Te_x$ core/crown heteronanoplatelets: tuning the excitonic properties without changing the thickness, Journal of Physical Chemistry C, 121, 4650, 2017.
4	**Y. Kelestemur**, B. Guzelturk, O. Erdem, M. Olutas, K. Gungor, and H. V. Demir, Platelet-in-box colloidal quantum wells: CdSe/CdS@CdS core/crown@shell heteronanoplatelets, Advanced Functional Materials, 26, 3570, 2016.
5	B. Guzelturk, **Y. Kelestemur**, K. Gungor, A. Yeltik, M. Z. Akgul, Y. Wang, R. Chen, C. Dang, H. Sun, and H. V. Demir, Stable and low threshold optical gain in CdSe/CdS quantum dots: all-colloidal frequency up-converted laser, Advanced Materials, 27, 2741, 2015.
6	**Y. Kelestemur**, M. Olutas, S. Delikanli, B. Guzelturk, M. Z. Akgul, and H. V. Demir, Type-II colloidal quantum wells: CdSe/CdTe core/crown heteronanoplatelets, Journal of Physical Chemistry C, 119, 2177, 2015.
7	B. Guzelturk,* **Y. Kelestemur**,* M. Olutas, S. Delikanli, and H. V. Demir, Amplified spontaneous emission and lasing in colloidal nanoplatelets, ACS Nano, 8, 6599, 2014. (*equal contribution)
8	**Y. Kelestemur**,* A. F. Cihan,* B. Guzelturk, and H. V. Demir, Type-tunable amplified spontaneous emission from core-seeded CdSe/CdS nanorods controlled by exciton-exciton interaction, Nanoscale, 6, 8509, 2014. (*equal contribution)
9	A. F. Cihan,* **Y. Kelestemur**,* B. Guzelturk, O. Yerli, U. Kurum, H. G. Yaglioglu, A. Elmali, and H. V. Demir, Attractive versus repulsive excitonic interactions of colloidal quantum dots control blue- to red-shifting (and non-shifting) amplified spontaneous emission, Journal of Physical Chemistry Letters, 4, 4146, 2013. (*equal contribution)

SELECTED CONFERENCE PRESENTATIONS

1	**Y. Kelestemur**, Y. Shynkarenko, M. Anni, M. L. De Giorgi, and M. V. Kovalenko, CdSe colloidal quantum wells with a graded shell for optoelectronic applications, NaNaX9, Hamburg, Germany, 16-20 September 2019.
2	**Y. Kelestemur**, and H. V. Demir, $CdSe/CdSe_xTe_{1-x}$ core/alloyed crown nanoplatelets with highly tunable excitonic properties, SCS Fall Meeting 2018, Switzerland, 7 September 2018.
3	**Y. Kelestemur**, and H. V. Demir, Advance Heterostructures of Colloidal Quantum Wells for Nanocrystal Optoelectronic, 9th Mediterranean Conference on Nano-Photonics, MediNano9, Amalfi, Italy, 3-4 September 2017.
4	**Y. Kelestemur,** B. Guzelturk, O. Erdem, M. Olutas, K. Gungor, and H. V. Demir, Stable and low-threshold gain of CdSe/CdS@CdS core/crown@shell colloidal nanoplatelets, 2017 MRS Spring Meeting & Exhibit, Phoenix, AZ, USA, 17 - 21 April 2017.
5	**Y. Kelestemur,** M. Olutas, B. Guzelturk, S. Delikanli, A. Yeltik, and H. V. Demir, Lateral size-dependent excitonic properties of colloidal quantum wells, 2015 MRS Fall Meeting & Exhibit, Boston, MA, USA, 29 November-4 December 2015.

6	**Y. Kelestemur,** M. Olutas, B. Guzelturk, S. Delikanli, M. Z. Akgul, and H. V. Demir, Optical and excitonic properties of type-II colloidal quantum wells: CdSe/CdTe core/crown heteronanoplatelets, 20 Years of Quantum Dots at Los Alamos, Santa Fe, NM, USA, 12-16 April 2015.
7	**Y. Kelestemur,** M. Olutas, S. Delikanli, B. Guzelturk, M. Z. Akgul, and H. V. Demir, Type-II colloidal quantum wells: CdSe/CdTe core/crown nanoplatelets, 2015 MRS Spring Meeting & Exhibit, San Francisco, CA, USA, 6-10 April 2015.
8	**Y. Kelestemur,** B. Guzelturk, M. Olutas, S. Delikanli, and H. V. Demir, Low-threshold optical gain and lasing of colloidal nanoplatelets, 2014 IEEE Photonics Conference (IPC), San Diego, CA, USA, 12 - 16 October 2014.
9	**Y. Kelestemur,** B. Guzelturk, A. F. Cihan, and H. V. Demir, Type-tunable and low-threshold optical gain from CdSe/CdS core/shell material system, Nanoscience with Nanocrystals - NaNaX6, Bad Hofgastein, Austria, 18-23 May 2014.
10	**Y. Kelestemur,** B. Guzelturk, and H. V. Demir, Low-threshold gain of new-generation zinc blende CdSe/CdS core/shell colloidal quantum dots, 2013 MRS Fall Meeting & Exhibit, Boston, MA, USA, 1 - 6 December 2013.
11	**Y. Kelestemur,** A. F. Cihan, B. Guzelturk, O. Yerli, U. Kurum, H. G. Yaglioglu, A. Elmali, and H. V. Demir, Blue- and red-shifting amplified spontaneous emission of CdSe/CdS core/shell colloidal quantum dots, CLEO: 2013, San Jose, CA , USA, 9-14 June 2013.

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	756
H-index (ISI Web of Science):	17

COURSES GIVEN

1	MATE 318 Materials Characterization / 2019 -
2	MATE 462 Nanomaterials / 2019 -