

ÖZGEÇMİŞ

1. Adı Soyadı : Mahmut Deniz Yılmaz

2. Doğum Tarihi : 14 Nisan 1979

3. Unvanı : Yard. Doç. Dr.

4. Öğrenim Durumu :

Derece	Alan	Üniversite	Yıl
Lisans	Kimya	Ankara Üniversitesi	2003
Yüksek Lisans	Kimya	Orta Dogu Teknik Üniversitesi	2006
Doktora	Moleküler Nanofabrikasyon	Twente Üniversitesi (Hollanda)	2011

5. Mesleki Deneyim

2013-2015 Kıdemli Araştırmacı

Hayat Kimya San. Tic. A. Ş. ARGE Merkezi (Kocaeli, Türkiye)

2011- 2013 Doktora Sonrası Araştırmacı

Northwestern Üniversitesi Kimya Bölümü (Amerika Birleşik Devletleri)

6. Bilimsel Yayınlar

1. M. Donmez, **M. Deniz Yılmaz**, B. Kilbas, *Journal of Hazardous Materials*, **2017**, 324 (Part B), 593–598. "Fluorescent detection of dipicolinic acid as a biomarker of bacterial spores using lanthanide-chelated gold nanoparticles"
2. **M. Deniz Yılmaz**, *Carbohydrate Polymers*, **2016**, 146, 174–180. "Layer-by-layer hyaluronic acid/chitosan polyelectrolyte coated mesoporous silica nanoparticles as pH-responsive nanocontainers for optical bleaching of cellulose fabrics"
3. **M. Deniz Yılmaz**, A. Kati, *Cellulose*, **2015**, 22 (6), 4077–4085. "Encapsulation and pH-responsive release of an optical brightener (CBUS) from chitosan microcontainers for optical bleaching of cellulosic fabrics"
4. I. R. Fernando, D. P. Ferris, M. Frasconi, D. Malin, E. Strelakova, **M. Deniz Yılmaz**, M. W. Ambrogio, M. M. Algaradah, M. P. Hong, X. Chen, M. S. Nassar, Y. Y. Botros, V. L. Cryns, J. F. Stoddart, *Nanoscale*, **2015**, 7 (16), 7178–7183. "Esterase- and pH-responsive poly(β -amino ester)-capped mesoporous silica nanoparticles for drug delivery"
5. **M. Deniz Yılmaz**, M. Xue, O. Buyukcakir, M. Ambrogio, M. Frasconi, Y. Wu, J. Zink, J. F. Stoddart, *Nanoscale*, **2015**, 7 (3), 1067–1072. "Sugar and pH dual- responsive mesoporous silica nanocontainers based on competitive binding mechanisms"
6. **M. Deniz Yılmaz**, T. Aytun, M. Frasconi, S. Stupp, J. F. Stoddart, *Synthetic Metals*, **2014**, 197, 52–57. "Photocurrent generation from a low band-gap and green BODIPY-based electrochromic polymer"

7. M. W. Ambrogio, M. Frascioni, **M. Deniz Yilmaz**, X. Chen, *Langmuir*, **2013**, *29* (49), 15386–15393. "New methods for improved characterization of silica nanoparticle-based drug delivery systems"
8. D. Ataç, T. Gang, **M. Deniz Yilmaz**, S. K. Bose, A. T. M. Lenferink, C. Otto, M. P. de Jong, J. Huskens, W. G. van der Wiel, *Nanotechnology*, **2013**, *24* (37), 375204/1-375204/8. "Tuning the kondo effect in thin Au films by depositing a thin layer of Au on molecular spin-dopants"
9. H. Usta, **M. Deniz Yilmaz**, A. J. Avestro, D. Boudinet, M. Denti, J. F. Stoddart, A. Facchetti, *Advanced Materials*, **2013**, *25* (31), 4327–4334. "BODIPY-Thiophene copolymers as p-channel semiconductors for organic thin-film transistors"
10. S. H. Hsu, **M. Deniz Yilmaz**, D. N. Reinhoudt, A. H. Velders, J. Huskens, *Angewandte Chemie International Edition*, **2013**, *52* (2), 714–719. "Nonlinear amplification of a supramolecular complex at a multivalent interface"
11. **M. Deniz Yilmaz**, J. Huskens, *Soft Matter*, **2012**, *8* (47), 11768–11780. "Orthogonal supramolecular interaction motifs for functional monolayer architectures"
12. T. Gang, **M. Deniz Yilmaz**, D. Ataç, S.K. Bose, E. Strambini, A.H. Velders, M.P. de Jong, J. Huskens, W.G. van der Wiel, *Nature Nanotechnology*, **2012**, *7* (4), 232–236. "Tunable molecular spin doping of a metal"
13. B. Eker, **M. Deniz Yilmaz**, S. Schlautmann, J. G. E. Gardeniers, J. Huskens, *International Journal of Molecular Science*, **2011**, *12* (11), 7335–7351. "A supramolecular sensing platform for phosphate anions and an anthrax biomarker in a microfluidic device"
14. O. Yildirim, **M. Deniz Yilmaz**, D. N. Reinhoudt, D. H. A. Blank, G. Rijnders, J. Huskens, *Langmuir*, **2011**, *27* (16), 9890–9894. "Electrochemical stability of self-assembled alkylphosphate monolayers on conducting metal oxides"
15. A. Gomez-Casado, H. Dam, **M. Deniz Yilmaz**, D. Florea, P. Jonkheijm, J. Huskens, *Journal of the American Chemical Society*, **2011**, *133* (28), 10849–10857. "Probing multivalent interactions in a synthetic host-guest complex by dynamic force spectroscopy"
16. W. P. Voorthuijzen, **M. Deniz Yilmaz**, W. Naber, J. Huskens, Wilfred Van der Wiel, *Advanced Materials*, **2011**, *23* (11), 1346–1350. "Local doping of silicon using nanoimprint lithography and molecular monolayers"
17. W. P. Voorthuijzen, **M. Deniz Yilmaz**, A. Gomez-Casado, P. Jonkheijm, W. G. van der Wiel, J. Huskens, *Langmuir*, **2010**, *26* (17), 14210–14215. "Direct patterning of covalent organic monolayers on silicon using nanoimprint lithography"
18. **M. Deniz Yilmaz**, S.H. Hsu, D. N. Reinhoudt, A. H. Velders, J. Huskens, *Angewandte Chemie International Edition*, **2010**, *49* (34), 5938–5941. (highlighted into news of University of Twente "UT researchers develop anthrax sensor" 16-08-2010). "Ratiometric fluorescent detection of an anthrax biomarker at molecular printboards"
19. O. A. Bozdemir, **M. Deniz Yilmaz**, O. Buyukcakir, A. Siemiarczuk, M. Tutas, E. U. Akkaya, *New Journal of Chemistry*, **2010**, *34* (1), 151–155. "Convergent synthesis and light harvesting properties of dendritic boradiazaindacene (BODIPY) appended perylenediimide dyes"

20. X. Y. Ling, I. Y. Phang, C. Acikgoz, **M. Deniz Yilmaz**, M. A. Hempenius, G. J. Vancso, J. Huskens, *Angewandte Chemie International Edition*, **2009**, *48* (41), 7677–7682. (Hot Article). "Janus particles with controllable patchiness and their chemical functionalization and supramolecular assembly"
21. S. H. Hsu, **M. Deniz Yilmaz**, C. Blum, V. Subramaniam, D. N. Reinhoudt, A. H. Velders, J. Huskens, *Journal of the American Chemical Society*, **2009**, *131* (35), 12567–12569. (highlighted into RSC Chemistry World "Complex shines a light on its own creation" 01-09-2009). "Expression of sensitized Eu³⁺ luminescence at a multivalent interface"
22. G. Barin, **M. Deniz Yilmaz**, E. U. Akkaya, *Tetrahedron Letters*, **2009**, *50* (15), 1738–1740. "Boradiazaindacene (Bodipy)-based building blocks for the construction of energy transfer cassettes"
23. S. E. Ela, **M. Deniz Yilmaz**, B. Icli, Y. Dede, S. Icli, E. U. Akkaya, *Organic Letters*, **2008**, *10* (15), 3299–3302. "A Panchromatic boradiazaindacene (BODIPY) sensitizer for dye-sensitized solar cells"
24. Z. Ekmekci, **M. Deniz Yilmaz**, E. U. Akkaya, *Organic Letters*, **2008**, *10* (3), 461–464. "A Monostyryl-boradiazaindacene (BODIPY) derivative as colorimetric and fluorescent probe for cyanide ions"
25. A. Coskun, **M. Deniz Yilmaz**, E. U. Akkaya, *Organic Letters*, **2007**, *9* (4), 607–609. "Bis(2-pyridyl)-Substituted boratriazaindacene as a NIR emitting chemosensor for Hg(II)"
26. **M. Deniz Yilmaz**, O. A. Bozdemir, E. U. Akkaya, *Organic Letters*, **2006**, *8* (13), 2871–2873. "Light harvesting and efficient energy transfer in a boron-dipyrrin (BODIPY) functionalized perylenediimide derivative"
27. A. Coskun, **M. Deniz Yilmaz**, E. U. Akkaya, *Tetrahedron Letters*, **2006**, *47* (22), 3689–3691. "Acenaphthopyrrolone-dipicolylamine derivative as selective and sensitive chemosensor for IIB cations"
28. S. Beyazyildirim, P. Camurlu, **M. Deniz Yilmaz**, M. Gullu, L. Toppare, *Journal of Electroanalytical Chemistry*, **2006**, *587* (2), 235–246. "Synthesis and electrochromic properties of conducting copolymers of dioxocino- and dithiocino-quinoxalines with bithiophene"

7. Patentler

1. I. K. Sen, A. K. Mandal, M. Hossain, A. K. Panda, **Mahmut Deniz Yilmaz**, A. Kati, D. C. Bhattacharya, *Indian Patent Office* (2016), *IN 201631020500* "Carbon nano particle composite and the process of manufacture thereof"
2. F. Koc, A. Ergun, **Deniz Yilmaz**, S. Soylemez, *PCT Int. Appl.* (2015), *WO 2015171090 A1 20151112* "Use of oxidized humic acid its salts and derivatives in cleaning compositions"
3. F. Koc, A. Ergun, **Deniz Yilmaz**, S. Soylemez, *PCT Int. Appl.* (2015), *WO 2015171089 A1 20151112* "Use of oxidized humic acid its salts and derivatives in dishwashing compositions"
4. F. Koc, A. Ergun, **Deniz Yilmaz**, S. Soylemez, *PCT Int. Appl.* (2015), *WO 2015171091 A1 20151112* "Use of oxidized humic acid its salts and derivatives in laundry compositions"
5. F. Koc, A. Ergun, **Deniz Yilmaz**, S. Soylemez, *PCT Int. Appl.* (2015), *WO 2015171092 A1 20151112* "Use of oxidized humic acid its salts and derivatives in hard surface cleaning compositions"

8. Yazılan Uluslararası Kitaplar veya Kitaplarda Bölümler

M. Deniz Yılmaz, J. Huskens. Springer Book, Recognizing Outstanding Ph.D. Research, Springer-Verlag, Heidelberg, **2012**. "Orthogonal Supramolecular Interaction Motifs for Functional Monolayer Architectures"

9. Bilimsel Projeler

Tubitak 2236-Uluslararası Deneyimli Araştırmacı Dolasım Programı (Co-Funded Brain Circulation Scheme) Proje No: 114C021 'Nanoencapsulation of fluorescent whitening agents to improve their fluorescent properties and preparation method thereof'

10. İdari Görevler

Konya Gıda ve Tarım Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Biyomühendislik Bölümü
Bölüm Başkanlığı

11. Ödüller

Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBİTAK), 2236-Uluslararası deneyimli Araştırmacı Dolasım Programı "Co-Funded Brain Circulation Scheme" bursu, **2014-2016**

Springer Theses Prize, Recognizing Outstanding Ph.D. Research, **2012**

Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBİTAK), Yüksek Lisans Bursu, **2004-2006**

Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TUBİTAK), Lisans Bursu, **2001-2003**

12. Çalışma Alanları

Organik Kimya, Supramoleküler ve Makrosiklik (Heterosiklik) Kimya, Organik İnce Filmler ve Yüzey Kimyası, Organik Güneş Pilleri ve İnce Film Transistörler için İletken Polimerlerin Sentezi ve Karakterizasyonu, İnorganik Katalizörler olarak Silika Bazlı Mezoporlu Nanoyapıların Sentezi ve Karakterizasyonu, Yüzey Aktif Malzemeler ve Deterjan Kimyası.