

ÖZGEÇMİŞ

1. Adı Soyadı : Amir Navidfar

İletişim Bilgileri

Adres

: Bahçeşehir Üniversitesi, Çırağan Caddesi - Yalı Sokak, 34353, Beşiktaş, İSTANBUL, TÜRKİYE

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2. Doğum Tarihi : 15.03.1989

3. Unvanı : Dr. Öğr. Üyesi

4. Öğrenim Durumu : Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Makina (İmalat) Müh	Tabriz Azat Üniversitesi	2012
Yüksek Lisans	Makina (İmalat) Müh	Urmia Üniversitesi	2015
Doktora	Makina Müh	İstanbul Teknik Üniversitesi	2021

5. Akademik Unvanlar

Dr. Öğr. Üyesi: Bahçeşehir Üniversitesi, Mekatronik Mühendisliği, 2021 -

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri

1. Omar Mohamad Abdel Aal Mohamad, "Fabrication of lightweight and flexible graphene nanocomposite piezoresistive foams" 2021 -
2. Samir Abdul Salam Saad – "Fabrication of graphene coated flexible and conductive cotton fabrics", 2021 -

7. Yayınlar

7.1. Uluslar arası hakemli dergilerde yayınlanan makaleler

- 11) A. Navidfar, M. I. Peker, E. Budak, C. Unlu, L. Trabzon, "Carbon quantum dots enhanced graphene/carbon nanotubes polyurethane hybrid nanocomposites", Under review in Composites Part B, 2022.
- 10) A. Navidfar, O. Bulut, T. Baytak, H. Iskender, L. Trabzon, "Boosted viscoelastic and dynamic mechanical behavior of binary nanocarbon based polyurethane hybrid nanocomposite foams", Journal of Composite Materials, 2022.
- 9) A.Navidfar, L.Trabzon, "Fabrication and characterization of polyurethane hybrid nanocomposites: mechanical, thermal, acoustic, and dielectric properties", Emergent Materials, 2021, 1-9.
- 8) A. Navidfar, L. Trabzon, "Analytical modeling and experimentally optimizing synergistic effect on thermal conductivity enhancement of polyurethane nanocomposites with hybrid carbon nanofiller", Polymer Composites, 2021, 42(2), 944-954.
- 7) A. Navidfar, L. Trabzon, "Graphene type dependence of carbon nanotubes/graphene nanoplatelets polyurethane hybrid nanocomposites: Micromechanical modeling and mechanical properties", Composites Part B: Engineering, 2019: 107337.

- 6) **A. Navidfar**, A.Sancak, K.B.Yildirim, L.Trabzon, "A study on polyurethane hybrid nanocomposite foam reinforced with multi-walled carbon nanotubes and silica nanoparticles", Polymer-Plastic Technology and Engineering, 2018, 57(14), 1463.
- 5) **A. Navidfar**, T. Azdast, A. K. Ghavidel, "Influence of processing condition and carbon nanotube on mechanical properties of injection molded multi-walled carbon nanotube/polymethyl methacrylate nanocomposites" Journal of Applied Polymer Science, 2016, 133 (31).
- 4) K. B. Yildirim, A. Sancak, **A. Navidfar**, L. Trabzon, W. Orfali, "Acoustic properties of polyurethane compositions enhanced with multi-walled carbon nanotubes and silica nanoparticles" Journal of Material Science and Engineering Technology, 2018, 49, 978.
- 3) A. K Ghavidel, **A. Navidfar**, M.R. Shabgard, T. Azdast, "Role of CO2 laser cutting conditions on anisotropic properties of nanocomposite contain carbon nanotubes", Journal of Laser Applications, 2016, 28, 032006.
- 2) A.K Ghavidel, T. Azdast, M. R. Shabgard, **A. Navidfar**, S. Sadighikia, "Improving electrical conductivity of polymethyl methacrylate by utilization of carbon nanotube and CO2 laser", Journal of Applied Polymer Science, 2015, 132, 42671.
- 1) A.K Ghavidel, T. Azdast, M. R. Shabgard, **A. Navidfar**, S. Mamaghani Shishavan "Effect of carbon nanotubes on laser cutting of multi-walled carbon nanotubes/polymethyl methacrylate nanocomposites", Optics & Laser Technology, 2015, 67, 119.

7.2. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeding) basılan bildiriler.

- 5) "Synergistic effect of graphene in 3D network of carbon based quantum dots on mechanical properties of polyurethane hybrid nanocomposite foams" 8th Annual Graphene and Beyond: From Atoms to Applications Workshop, 2021.
- 4) "Synergistic mechanical properties improvement of carbon nanotubes/graphene reinforced polyurethane hybrid nanocomposites", The 2019 Spring Meeting of the European Materials Research Society (E-MRS), Nice, France.
- 3) "Effect of graphene nanoplatelets and multi-walled carbon nanotubes on tensile properties of rigid polyurethane" 6th World Congress on Nanotechnology and Materials Science, 2018, Valencia, Spain.
- 2) "Influence of multi walled carbon nanotubes and silica nanoparticles on tensile properties of polyurethane", Applied Nanotechnology and Nanoscience International Conference (ANNIC 2016), Barcelona, Spain.
- 1) "Investigation of Rockwell hardness and Charpy impact test of injection molded multi-walled carbon nanotubes/poly methyl methacrylate nanocomposites", 5th International Congress on Nanoscience & Nanotechnology (ICNN 2014), October 2014, Tehran, Iran.

7.3. Yazılan Uluslararası kitaplar veya kitaplarda bölümler.

7.4. Ulusal hakemli dergilerde yayınlanan makaleler

7.5. Ulusal bilimsel toplantılarda sunulan bildiri kitabında basılan bildiriler

- 1) "Synergistic effect of multi walled carbon nanotubes and silica nanoparticles on polyurethane nanocomposites", NANOTR-14, 2018, Çeşme, İzmir, Turkey.

7.6 Diğer Yayınlar

Patent

"Hibrit Nanopartikül Takviyeli Poliüretan Nanokompozit Ve Üretim Yöntemi", Turk Patent, Application No: 2019/00222

8. Projeler

- 8) "Enerji verimliliği ve ısı iletkenliği yüksek, hafifletilmiş yeni termoplastik hibrit nanokompozit tabanlı batarya kutusu geliştirilmesi", İTÜ APYK-4, Araştırmacı, Submitted to TÜBİTAK 1004, 2022.
- 7) " TiO_2 hydrophilic coating for painless needle application", Araştırmacı, Submitted to Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB), 2022.
- 6) "Thermally Conductive Graphene Textiles", Araştırmacı, Granted by ASELSAN, 2021 – 2023.
- 5) Marie Skłodowska-Curie Actions - Individual Fellowships (MSCA-IF-2020), "3D Printing of Acoustic Metamaterials through Multifunctional Nanocomposites Containing 3D Structured Hybrid Carbon Nanotubes and Graphene", Nottingham University (UK), Submitted.
- 4) "Novel Strengthened of Thermal-Insulation Thermoplastic Nanocomposite Foams using Hybridization of Nanomaterials", Araştırmacı, Submitted to TÜBİTAK-MSRT, 2021.
- 3) "Comfortable Graphene Textile", girişimci, Submitted to (TÜBİTAK 1512 - GİRİŞİMCİLİK DESTEK PROGRAMI), 2019.
- 2) TÜBİTAK 1003, Project No: 218M528, Araştırma asistanı (April 2019 - Dec 2020).
- 1) TÜBİTAK 1001, Project No: 115R002, Araştırma asistanı (June 2016 - March 2017).

9. İdari Görevler

10. Bilimsel Kuruluşlara Üyelikleri

11. Ödüller

Bronz Madalya Ödülü, 4th Istanbul International Invention Fair (ISIF 19), TEKNOFEST, Istanbul, 2019.

12. Son iki yılda verdiği lisans ve lisansüstü düzeyindeki dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2021-2022	Güz	CEN2017 – Technical Drawing with Autocad	3	-	60 (2 Sec)
		MCH4203 – Computer-Aided Engineering	3	-	75
	Bahar	MCH2016 – Materials and Manufacturing Technologies	3	-	150 (2 Sec)
		MCH1004 – Computer-Aided Technical Drawing	3	-	174 (2 Sec)
		MCH4992 – Capstone Project 2	-	4	24

* İşaretli dersler, yüksek lisans dersleridir.