

**ACADEMIC  
CURRICULUM VITAE**

**1. Name - Surname:** Mahmut Ahsen SAVAŞ

**2. Title:** Professor

**3. Educational Background:**

Degree	Department/Program	University	Year
Bachelor's	Metallurgy - Materials	Manchester University, UK	1980
Master's	Metallurgy - Materials	Queen's University, Canada	1982
PhD	Metallurgy - Materials	Queen's University, Canada	1986

**4. Master's / PhD Thesis**

**4.1. Master's Thesis Title and Thesis Advisor(s):**

Quasi Regular Eutectic Growth (Prof. R. W. Smith)

**4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):**

Quasi Regular Eutectic Growth (Prof. R. W. Smith)

**5. Academic Titles:**

Date of Assistant Professorship: February 1987

Date of Associate Proferssorship: October 1989 (Materials Engineering)

Date of Professorship: September 1998

Professor - Emeritus: Boğaziçi University, December 2007

**6. Publications (Since 2000)**

- Musa Alhaji Ibrahim, Hüseyin Çamur, Mahmut A Savaş, Alhassan Kawu Sabo, Shamsu Auwal Tukur, Auwalu Yusuf Gidado, Magaji Tambaya, S Ramesh (2023). Dynamic mechanical thermal analysis of PTFE based composites. AIP Conference Proceedings 2643(1):359. <https://doi.org/10.1063/5.0110479>
- Filiz Alshanableh, Mahmut A Savas (2023). Biodiesel Production Using Supercritical Methanol in Bench-Scale Reactor. The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM, 2023). 23:19.

- Tariku Achamyelch, Hüseyin Çamur, Mahmut A. Savaş, Ali Evcil (2022). Mechanical strength variability of deformed reinforcing steel bars for concrete structures in Ethiopia. *Scientific Reports*. 12:2600.  
<https://doi.org/10.1038/s41598-022-06654-1>
- Musa Alhaji Ibrahim, Hüseyin Çamur, Mahmut Savaş, Sani Isah Abba (2022). Hybrid Artificial Intelligence Models with Multi Objective Optimization for Prediction of Tribological Behavior of Polytetrafluoroethylene Matrix Composites. *Applied Science*. 12(17), 8671. <https://doi.org/10.3390/app12178671>
- Musa Alhaji Ibrahim, Hüseyin Çamur, Mahmut Savaş, Sani Isah Abba (2022). Optimization and prediction of tribological behaviour of filled polytetrafluoroethylene composites using Taguchi Deng and hybrid support vector regression models. *Scientific Reports* (2022) 12(1):10393 DOI:10.1038/s41598-022-14629-5
- Musa Alhaji Ibrahim, Hüseyin Çamur, Mahmut Savaş, Alhassan Kawu Sabo (2022). Multi-Response Optimization of the Tribological Behaviour of PTFE-Based Composites via Taguchi Grey Relational Analysis. *Strojnicki Vestnik* 68(5):359-367.  
DOI:10.5545/sv-jme.2021.7466
- Musa Alhaji Ibrahim, Hüseyin Çamur, Mahmut Savaş, Sani Isah Abba (2022). Multi-Response Optimization and Prediction of Tribological behaviours of Filled Polytetrafluoroethylene Composites Using Taguchi-Deng and Evolutionary Harris Hawk's Optimization Methodologies. *Research Square* DOI:10.21203/rs.3.rs-1393204/v1
- WA Issa, H Çamur, M Savaş (2022). A study of the effect of Graphene on the Fatigue Life of CuAlNi Shape Memory Alloy. *Research square.com* .  
<http://doi.org/10.21203/rs.3.rs-2325723/v1>
- Wasiu Ayinde Issa, Huseyin Camur and Mahmut Savas (2021). A Brief Review of Characteristics and Applications of Shape Memory Alloys in Engineering and Related Fields.  
*International Journal of Mechanical Engineering and Technology (IJMET)*  
Volume 12, Issue 9, September 2021, pp. 34-43.  
DOI: <https://doi.org/10.34218/IJMET.12.9.2021.004>
- Ramez Abdallah, Adel Juaidi, Mahmut A. Savaş, Hüseyin Çamur, Aiman Albatayneh Samer Abdala and Francisco Manzano-Agugliaro, (2021). A Critical Review on Recycling Composite Waste Using Pyrolysis for Sustainable Development. *Energies* 2021, 14(18), 5748. (Retracted in 2022)  
<https://doi.org/10.3390/en14185748>
- Filiz Alshaneleh, Muhammed Alshaneleh, Ali Evcil, Mahmut Savaş (2021). Failure investigation of a prematurely fractured stainless steel bone fixation implant  
Conference: 2021 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)  
DOI:10.1109/ISMSIT52890.2021.9604674
- Al-Shaneleh, F., Bilin, M., Evcil, A., Savas, M.A. (2020). Optimization of Oil Extraction from Jojoba Seeds of Mesaoria Plain in Screw Expelling Using Taguchi Design. *International Journal of Renewable Energy Research*, Volume: 10 Issue: 1 Pages: 400-406. ISSN:13090127.
- Bürge, G., Aytaç, E., Evcil, A., Savaş, M. A. (2020). An Investigation on Mechanical Properties of PLA Produced by 3D Printing as an Implant Material, 2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT). DOI: 10.1109/ISMSIT50672.2020.9254387

- Aliyu Baba, M., Aliyu Yola, I., Evcil, A., Savaş, M. A. (2020). A Comparative Investigation of the Mechanical Properties of Mild Steel Rods Produced by two Local Steel Manufacturers in Nigeria, 2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT). DOI: 10.1109/ISMSIT50672.2020.9254440
- Danbaba, S., Aliyu Yola, I., Evcil, A., Savaş, M. A. (2020). A Brief Characterization of the Steel Rods for Reinforcing Concrete from Two Steel Mills in Nigeria, 2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT). DOI: 10.1109/ISMSIT50672.2020.9255074.
- Al-Shanableh, F., Bilin, M., Evcil, A., Savas, M. A. (2020). A Study of Jojoba Oil Extraction Based on a Fuzzy Logic Model. 4th International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2020 - Proceedings, 2020, 9255214. DOI:10.1109/ISMSIT50672.2020.9255214
- Bilin, M., Al-Shanableh, F., Evcil, A., Savas, M. A. (2020). Potential of Jojoba Agriculture in Mesarya Plain of Cyprus Island. 4th International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2020 - Proceedings, 2020, 9255250. DOI:10.1109/ISMSIT50672.2020.9255250.
- Okorugbo, P. A., Evcil, A., Güler, M. A., Savaş, M.A. (2019). Investigation of the Effect of Impact Velocity on the Energy Absorption Characteristics of Crash Boxes. 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), IEEE Conference Paper, pp. 1-7. DOI: 10.1109/ISMSIT.2019.8932737
- Filiz Al-Shanableh, Metin Bilin, Ali Evcil & Mahmut A. Savas (2019), “ Estimation of cold flow properties of biodiesel using ANFIS-based models”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, DOI: 10.1080/15567036.2019.1672832
- Metin Bilin ; Filiz Alshanableh ; Alia Evcil ; Mahmut A. Savas, “A Comparative Examination of the Quality of Jojoba Seed Oil Harvested on the Mesaoria Plain of Cyprus Island” (2018), 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT) 2018, pp: 1 – 4, IEEE Conferences DOI: 10.1109/ISMSIT.2018.8567052
- Mekonnen Asmare Fentahun1, Mahmut Ahsen Savaş, “Materials Used in Automotive Manufacture and Material Selection Using Ashby Charts”, International Journal of Materials Engineering 2018, 8(3): 40-54 DOI: 10.5923/j.ijme.20180803.02
- Evcil Ali, Al-Shanableh Filiz, Savas Mahmut A., “Variation of solid fraction with cold flow properties of biodiesel produced from waste frying oil”, *Fuel* 215:522-527, 2018. (SCI) DOI: 10.1016/j.fuel.2017.11.055
- Al-Shanableh Filiz, Evcil Ali, Savaş Mahmut A., “Fuzzy logic model for prediction of cold filter plugging point of biodiesel from various feedstock”, *Procedia computer science*120:245-252, 2017. (WOS)
- Alfitouri Abdulkarim Omar, Savaş Mahmut A., Evcil Ali, “Charpy Impact and Tension Tests of Two Pipeline Materials at Room and Cryogenic Temperatures”, *International Journal of Applied Engineering Research*13(17):13321-13334, 2018. (Scopus)
- Bilin Metin, Alshanableh Filiz, Evcil Ali, Savas Mahmut A., “A Comparative Examination of the Quality of Jojoba Seed Oil Harvested on the Mesaoria Plain of Cyprus Island”, *2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*01Apr2018. (Scopus)
- A. Evcil, F. Al-Shanableh, M. A. Savaş, “Variation of Solid Fraction with Cold Flow Properties of Biodiesel Produced from Waste Frying Oil”, *Fuel*, vol. 215C, pp. 522-527, 2018.

- A. O. Alfitouri, M. A. Savaş, A. Evcil, “Charpy Impact and Tension Tests of Two Pipeline Materials at Room and Cryogenic Temperatures”, *International Journal of Applied Engineering Research*, vol. 13, no. 17, pp. 13321-13334.
- Al-Shanableh, F., Evcil, A., Savaş, M.A., “Fuzzy Logic Model for Prediction of Cold Filter Plugging Point of Biodiesel from Various Feedstock”, *Procedia Computer Science*, vol. 120, pp. 245-252, 2017.
- Filiz Al-Shanableh, Ali Evcil, Mahmut Ahsen Savaş, “Prediction of Cold Flow Properties of Biodiesel Fuel Using Artificial Neural Network”, *Procedia Computer Science*, vol. 102, pp. 273-280, 2016.
- Özlem Boydak, Mahmut Savaş, Bülent Ekici, “A Numerical and an Experimental Investigation of a High-Pressure Die-Casting Aluminium Alloy”, *International Journal of Metalcasting*, vol. 10, issue 1, pp. 56-69, 2016.
- Ali Evcil, Filiz Alshableh, Cemal Gövsa, Mahmut A. Savaş, “Taze ve atık kanola yağlarından biyodizel üretimi ve soğuk akış özelliklerinin KKTC koşulları açısından değerlendirilmesi”, 9. Ulusal Temiz Enerji Sempozyumu, 25-28 Aralık 2013, Selçuk Üniversitesi, Konya, Bildiriler Kitabı, s. 1-11.
- Ali Evcil, Filiz Alshableh, Cemal Gövsa, Mahmut A. Savaş, “Atık Kızartma Yağından Biyodizel Üretimi ve Soğuk Akış Özelliklerinin KKTC İklim Koşullarına Uyarlanması”, YEKSEM (Yenilenebilir Enerji Kaynakları Sempozyumu) 2013, 4-6 Ekim 2013, Girne, KKTC (<http://www.yeksem.2013.org>).
- F. Alshableh, A. Evcil, C. Gövsa, M.A. Savaş, “A comparative examination of cold flow properties and acidity of biodiesel produced from virgin and waste canola oil”, ICERDS 5: International Conference on Energy Research and Development, April 5, 2012, <http://www.icerd5.org>.
- F. Alshableh, A. Evcil, C. Gövsa, M.A. Savaş, “A comparison of cold flow properties of biodiesel produced from virgin and used frying oil”, IGEC - 6: International Green Energy Conference, June 5, 2011, Eskişehir, Turkey <http://igec6.anadolu.edu.tr>.
- Evcil, F. Alshableh, C. Gövsa, M.A. Savaş, “Biodiesel production from waste frying oil and determination of its cold flow properties”, ICAT'10: International Conference on Energy and Automotive Technologies, Nov.5, 2010, İstanbul, Turkey <http://www.icatco> DOI: 10.1109/ISMSIT.2019.8932737nf.com/announced.aspx.
- M.A. Savaş, K. Ün, S. Altıntaş, “Mühendislik Malzemeleri: Biyomalzemeler ve Kas - İskelet Sistemindeki Uygulamaları”, ‘Kas - İskelet Sistemi Biyomekaniği, cilt 1, bölüm 2.2, sayfa 33 - 94, Editörler: İ. D. Akçalı, M. Gülşen, K. Ün, MACTIMARUM, Adana, 2009. ISBN 978-975-6813-89-8.
- R.G. Demirkır, M.A. Savaş, B. Çakıroğlu, “Sürekli Döküm Yöntemi ile Üretilen Kurşunlu Pirinç Takozlarda Döküm Kalitesi ve Mekanik Özellikler”, TMMOB Makina Mühendisleri Odası, V. Makina Tasarım ve İmalat Teknolojileri Kongresi, 17-18 Ekim 2009, Konya, Bildiriler Kitabı, s: 3-12.
- R.G. Demirkır, A. Gürbüz, M.A. Savaş, B. Çakıroğlu, “Pirinç Alaşımlarında Sıcak Ekstrüzyon Kusurları”, IMMC: 14. Uluslararası Metalurji & Malzeme Kongresi, 16-18 Kasım 2008, İstanbul, Kongre Bildiriler e - Kitabı, Editörler: C. Arslan, U. Ertem, C.H. Gür, S. Gürmen, G. Orhan, H. Savaş, s: 507-516, ISBN 978-9944-89-6115.
- T. Özkan, M.Z. Baykara, İ. Ulutaş, A. Alkan, A.Gürol, M.A.Savaş, “Hafif Kara Taşıtlarında Güneş Enerjisi Kullanımının Araç Tasarımı ve Malzeme Seçimi Üzerine Etkileri”, Mühendis ve Makina, cilt 548 (Eylül 2005) 43-51.
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- J. Shi, M.A. Savas, B.J. Yang, R.W. Smith, “Spheroidal graphite ferritic cast iron - an ideal model material to examine the deformation of a single - phase matrix containing soft

spheroidal inclusions”, International Journal of Cast Metals Research, cilt 16 no.1-3 (2003) 215-220.

- M.A. Savas, R.J. Yang, R.W. Smith, “Diffusion couple preparation using cast coating technique”, Journal of Materials Science, cilt 37 (2002) 4093-4099.
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## 7. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	Fall	ECC 211: Engineering Materials	4	Online Fliplearning	49
		MOD 211: Mühendislik Malzemeleri	4	Face to face	5
		MEE 427: Engineering Ethics	2	Face to face	19
		MAK 427: Mühendislik Etiği	2	Face to face	12
	Spring	ECC 433: Heat Treatment	3	Online	45
		MOD 433: Isıl İşlem	3	Online	14
		MEE 475: Materials Failure Investigation	3	Online Fliplearning	35
		MEE 571/MEE 671: Mechanical Properties of Composite Materials	3	Face to face	11
2022 - 2023	Summer School	MOD 433: Isıl İşlem	3	Face to face	4
		MEE 427: Engineering Ethics	2	Face to face	6
	Fall	ECC 211: Engineering Materials	4	Online Fliplearning	50
		MOD 211: Mühendislik Malzemeleri	4	Online	11
		MEE 427: Engineering Ethics	2	Online	14
		MAK 427: Mühendislik Etiği	2	Face to face	9
	Spring	ECC 433: Heat Treatment	3	Online	12
		MOD 433: Isıl İşlem	3	Online	6
		MEE 475: Materials Failure	3	Online	9

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		Investigation		Fliplearning	
		MEE 576/MEE 676: Semi-solid Forming	3	Face to face	4
	<b>Summer School</b>	MEE 453: Materials Engineering	3	Face to face	5