Best Researcher Award – Dr. Ahmet Hasçelik

Dr. **Ahmet Hasçelik**, a distinguished **Mechanical Engineer and Researcher**, has been honored with the **Best Researcher Award** for his groundbreaking contributions to **micromachining, metal cutting, and manufacturing technologies**. As a **Lecturer at Afyon Kocatepe University**, he has led **pioneering studies on micro milling, thin-walled structures, and machining process optimization**, significantly advancing modern **manufacturing techniques**. His **expertise in CAD, CNC machining, and cutting strategies** has made a substantial impact on both academia and industry.

Academic Background & Expertise:

✔**Mechanical Engineering (Ph.D.)** – Afyon Kocatepe University (Ongoing)

✔**Master's Degree (Mechanical Engineering)** – Afyon Kocatepe University (2019)

✔**Bachelor's Degree (Mechanical Engineering)** – Niğde University (2014)

Dr. Hasçelik has **published 10 international research papers**, including **6 indexed in SCI**, and **5 conference presentations**, focusing on **surface roughness, cutting forces, and cooling behaviors in micromachining**. His technical proficiency includes **SolidWorks, CNC programming, metal cutting, and machining simulations using Deform2D/3D**.

Professional Contributions & Research Impact:

✔**Leading TÜBİTAK & University Research Projects** – Conducting **state-of-the-art studies on micro milling, deformation reduction, and Stirling engine applications in renewable energy**.

✔**Innovator in Micromachining & Thin-Walled Structures** – Investigating **cutting parameters, tool geometry, and machining strategies** to enhance **precision manufacturing techniques**.

✔**Academic Leadership & Teaching Excellence** – Teaching **CNC programming, CAD, and manufacturing processes** while serving as **Assistant Manager at Afyon Kocatepe University's Vocational High School**.

✔**Industry Engagement** – Former **Inspection Expert at the Turkish Standards Institute**, specializing in **elevator inspections, vehicle projects, and service certifications**.

✔**International Experience** – Worked in **Spain** on **biomass energy systems**, reflecting a strong **global perspective on engineering solutions**.

Conclusion:

Dr. **Ahmet Hasçelik's** research and professional endeavors have significantly advanced the fields of **micromachining, manufacturing, and mechanical engineering**. His **commitment to**

scientific progress, innovation in machining technologies, and outstanding academic contributions make him a **deserving recipient of the Best Researcher Award**. □

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Optimization of Cutting Parameters to Minimize Wall Deformation in Micro-Milling of Thin-Wall Geometries

Micromachines
2025-03-06 | Journal article
DOI: 10.3390/mi16030310
CONTRIBUTORS: Ahmet Hasçelik; Kubilay Aslantas; Bekir Yalçın

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Examination of Deformation in Thin-Walled Structures Processed by Micro-Milling Method

Journal of Materials and Mechatronics: A
2023-06-26 | Journal article
DOI: 10.55546/jmm.1200156
CONTRIBUTORS: Ahmet HASÇELİK; Kubilay ASLANTAS

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Source: Crossref

Mikro tornalama işleminde kesme kuvveti katsayılarının mekanistik ve nümerik modelleme ile tespiti

Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi
2021-11-10 | Journal article
DOI: 10.17341/gazimmfd.794462
CONTRIBUTORS: Ahmet HASÇELİK; Kubilay ASLANTAŞ

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Source: Crossref

Investigations on Surface Roughness and Tool Wear Characteristics in Micro-Turning of Ti-6Al-4V Alloy

Materials
2020-07-06 | Journal article
DOI: 10.3390/ma13132998
CONTRIBUTORS: Kubilay Aslantas; Mohd Danish; Ahmet Hasçelik; Mozammel Mia; Munish Gupta; Turnad Ginta; Hassan Ijaz

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Ahmet Hasçelik

Afyon Kocatepe Üniversitesi İscehisar Meslek Yüksekokulu

Micro Machining
Metal Cutting
Machine Tools
Milling
Mechanical Engineering

KENDI PROFILINIZI OLUŞTURUN

	Hepsi	2020 yılından bugüne
Alıntılar	161	161
h-endeksi	4	4
i10-endeksi	4	4

0 makale 1 makale

genel genel erişime açık olanlar
erişime açık olmayanlar

Finansman sağlayan kuruluşun getirdiği zorunluluğa dayalı olarak

BAŞLIK	ALINTI YAPANLAR	YIL
Investigations on Surface Roughness and Tool Wear Characteristics in Micro-Turning of Ti-6Al-4V Alloy K Aslantas, M Danish, A Hasçelik, M Mia, M Gupta, T Ginta, H Ijaz Materials 13 (13), 2998	60	2020
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Effect of cutting conditions on tool wear and wear mechanism in micro-milling of additively manufactured titanium alloy K Aslantas, A Hasçelik, A Erçetin, M Danish, LKH Alatrushi, S Rubaiee, ... Tribology International 193, 109340	22	2024
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Exploring sustainable micro milling: Investigating size effects on surface roughness for renewable energy potential A HASCELIK, K ASLANTAS, W AHMED Materials Research Proceedings 43		2024

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Mikro tornalama işleminde kenar radyüs etkisinin sonlu elemanlar yöntemiyle modellenmesi A Hasçelik, K Aslantaş UTIS 2018, Uluslararası Talaşlı İmalat Sempozyumu		2018