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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2002 - 2008

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1995 - 2000

Dissertations

Doctorate, 3D finite element simulation of steel quenching in order to determine the microstructure and residual stresses, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2008

Postgraduate, Low velocity ballistic characterization of steel armour plates by drop-weight tests, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2002

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2019 - Continues

Assistant Professor, Atılım University, Faculty Of Engineering, Department Of Manufacturing Engineering, 2011 - 2019

Lecturer, Atılım University, Faculty Of Engineering, Department Of Manufacturing Engineering, 2010 - 2011

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2000 - 2006

Academic and Administrative Experience

Assistant Manager of Research and Application Center, Atılım University, Metal Efformation Perfection Application And Research Center, 2016 - 2017

Assistant Manager of Research and Application Center, Atılım University, Metal Efformation Perfection Application And Research Center, 2012 - 2014

Advising Theses

ŞİMŞİR C., Computer modelling of residual stress & distortion for additively manufactured metal parts, Postgraduate, Y.ALPTUĞ(Student), 2022

ŞİMŞİR C., Numerical and experimental investigation of radar absorbing performance of composite materials with frequency selective surface, Postgraduate, B.SUBAŞI(Student), 2022

ŞİMŞİR C., Texture and microstructural evolution of AISI 4140 steel during tube spinning process, Postgraduate, E.ÖZDEN(Student), 2022

ŞİMŞİR C., Multi scale modeling of dual phase steels with integrated computational materials engineering framework, Postgraduate, D.BAKKALBAŞI(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Excessive damage increase in dual phase steels under high strain rates and temperatures**
Cobanoglu M., Ertan R. K., ŞİMŞİR C., EFE M.
INTERNATIONAL JOURNAL OF DAMAGE MECHANICS, vol.30, no.2, pp.283-296, 2021 (SCI-Expanded)
- II. **A flow stress model for steel in cold forging process range and the associated method for parameter identification**
Simsir C., Duran D.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.94, pp.3795-3808, 2018 (SCI-Expanded)
- III. **Dynamic strain aging in DP steels at forming relevant strain rates and temperatures**
BAYRAMIN B., Simsir C., EFE M.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.704, pp.164-172, 2017 (SCI-Expanded)
- IV. **Simulation of through-hardening of SAE 52100 steel bearings - Part II: Validation at industrial scale**
Evcil G. E., Mustak O., Simsir C.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.47, no.8, pp.746-754, 2016 (SCI-Expanded)
- V. **Simulation of through-hardening of SAE 52100 steel bearings - Part I: Determination of material properties**
Mustak O., Evcil G. E., Simsir C.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.47, no.8, pp.735-745, 2016 (SCI-Expanded)
- VI. **Multiscale modeling of tempering of AISI H13 hot-work tool steel - Part 2: Coupling predicted mechanical properties with FEM simulations**
Eser A., Broeckmann C., Simsir C.
COMPUTATIONAL MATERIALS SCIENCE, vol.113, pp.292-300, 2016 (SCI-Expanded)
- VII. **Multiscale modeling of tempering of AISI H13 hot-work tool steel - Part 1: Prediction of microstructure evolution and coupling with mechanical properties**
Eser A., Broeckmann C., Simsir C.
COMPUTATIONAL MATERIALS SCIENCE, vol.113, pp.280-291, 2016 (SCI-Expanded)
- VIII. **Simulation and Optimization in Materials Technology**
Guerrero M., Simsir C., Deus A., Sarler B.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2014, 2014 (SCI-Expanded)
- IX. **Process-chain simulation for prediction of the distortion of case-hardened gear blanks**
Simsir C., Hunkel M., Luetjens J., Rentsch R.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.43, pp.163-170, 2012 (SCI-Expanded)
- X. **Parameter identification for an Armstrong-Frederick hardening law for supercooled austenite of SAE 52100 steel**
Wolff M., Suhr B., Simsir C.
COMPUTATIONAL MATERIALS SCIENCE, vol.50, no.2, pp.487-495, 2010 (SCI-Expanded)

- XI. **Dimensional analysis of the thermomechanical problem arising during through-hardening of cylindrical steel components**
Simsir C., Luebben T., Hoffmann F., Zoch H.
COMPUTATIONAL MATERIALS SCIENCE, vol.49, no.3, pp.462-472, 2010 (SCI-Expanded)
- XII. **The Bauschinger effect in the supercooled austenite of SAE 52100 steel**
Simsir C., Dalgic M., Luebben T., Irretier A., Wolff M., Zoch H. W.
ACTA MATERIALIA, vol.58, no.13, pp.4478-4491, 2010 (SCI-Expanded)
- XIII. **Quantitative analysis of the influence of strain hardening on equal channel angular pressing process**
ŞİMŞİR C., Karpuz P., GÜR C. H.
COMPUTATIONAL MATERIALS SCIENCE, vol.48, no.3, pp.633-639, 2010 (SCI-Expanded)
- XIV. **A Simulation of the Quenching Process for Predicting Temperature, Microstructure and Residual Stresses**
Simsir C., GÜR C. H.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.56, no.2, pp.93-103, 2010 (SCI-Expanded)
- XV. **Investigating the effects of hardening of aluminium alloys on equal-channel angular pressing-A finite-element study**
Karpuz P., Simsir C., GÜR C. H.
Materials Science and Engineering A, vol.503, pp.148-151, 2009 (SCI-Expanded)
- XVI. **A review on modeling and simulation of quenching**
Şimsir C., Hakan Gür C. H.
Journal of ASTM International, vol.6, no.2, 2009 (SCI-Expanded)
- XVII. **A FEM based framework for simulation of thermal treatments: Application to steel quenching**
Şimsir C., GÜR C. H.
COMPUTATIONAL MATERIALS SCIENCE, vol.44, no.2, pp.588-600, 2008 (SCI-Expanded)
- XVIII. **3D FEM simulation of steel quenching and investigation of the effect of asymmetric geometry on residual stress distribution**
Simsir C., GÜR C. H.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.207, pp.211-221, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Application of the Contour Method to Determine Axial Residual Stresses in Cold Extruded Steel Rods**
Aydin O., ŞİMŞİR C.
FME Transactions, vol.49, no.4, pp.941-949, 2021 (ESCI)
- II. **Transformation Induced Plasticity (TRIP) of SAE 52100 Steel during Martensitic and Bainitic Transformations**
Şimsir C.
Hittite Journal of Science Engineering, vol.4, no.2, pp.125-130, 2017 (Peer-Reviewed Journal)
- III. **Simulation trends in quenching technology for automotive components**
Felde I., Şimsir C.
International Heat Treatment and Surface Engineering, vol.8, no.1, pp.42-48, 2014 (Scopus)
- IV. **Anisotropic Transformation Strain and Its Consequences on Distortion during Austenitization**
Simsir C., Lubben T., Hunkel M., Hoffmann F., Zoch H.
MATERIALS PERFORMANCE AND CHARACTERIZATION, vol.1, no.1, 2012 (ESCI)
- V. **Simulation of Quenching: A Review**
GÜR C. H., Şimsir C.
MATERIALS PERFORMANCE AND CHARACTERIZATION, vol.1, no.1, 2012 (ESCI)
- VI. **Metallurgical influence on quench distortion of SAE 52100 long cylinders**
Maradit B., Şimsir C., Lübben T., GÜR C. H.
International Heat Treatment and Surface Engineering, vol.5, no.2, pp.57-60, 2011 (Scopus)

- VII. **A new framework for simulation of heat treatments**
Şimşir C., GÜR C. H.
International Journal of Microstructure and Materials Properties, vol.5, pp.399-411, 2010 (Scopus)
- VIII. **A review on modeling and simulation of quenching**
Şimşir C., Hakan Gür C. H.
ASTM Special Technical Publication, pp.117-156, 2010 (Scopus)
- IX. **Simulation of equal channel angular pressing applied to produce structures with ultrafine-sized grains**
Karpuz P., ŞİMŞİR C., Hakan Gür C. H.
International Journal of Microstructure and Materials Properties, vol.4, no.3, pp.356-367, 2009 (Scopus)
- X. **A mathematical framework for simulation of thermal processing of materials: Application to steel quenching**
Şimşir C., GÜR C. H.
Turkish Journal of Engineering and Environmental Sciences, vol.32, no.2, pp.85-100, 2008 (Scopus)
- XI. **A Mathematical Framework for Simulation of Thermal Processing of Materials**
ŞİMŞİR C., GÜR C. H.
Turkish Journal of Engineering and Environmental Sciences, vol.32, pp.85-100, 2008 (Scopus)

Books & Book Chapters

- I. **Simulation of Quenching**
Şimşir C., Gür C. H.
in: Encyclopedia of Iron, Steel, 1st Edition, R.Colas,G.E.Totten, Editor, CRC, New York , Oxford, pp.2892-2939, 2016
- II. **Modelling and Simulation of Steel Heat Treatment: Prediction of Microstructure, Distortion, Residual Stresses and Cracking**
ŞİMŞİR C.
in: ASM Handbook Vol 4B Steel Heat Treatment and Fundamentals, Lumpman, S., Editor, ASM International, Ohio, pp.409-466, 2014
- III. **Simulation of Quenching**
ŞİMŞİR C., GÜR C. H.
in: Quenching Theory and Technology 2nd Edition, Liscic, B., Totten, G.E., Tensi, H.M., Canale, L.C.F., Editor, CRC Press, Taylor Francis Group, New York, pp.603-666, 2010
- IV. **A Review on Modeling and Simulation of Quenching**
Şimşir C., Gür C. H.
in: TP 1523 (Selected Technical Papers) : Quenching and Cooling, Residual Stress and Distortion Control, L.C.F. Canale,M. Narazaki, Editor, ASTM : American Society for Testing and Materials , Ohio, 2010
- V. **Simulation of Quenching**
ŞİMŞİR C., GÜR C. H.
in: Handbook of Thermal Process Modeling of Steels, GÜR C.H., PAN, J., Editor, CRC Press, Taylor Francis, New York, pp.341-425, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **Evolution of microstructure during hot incremental disk rolling of a nickel-based super-alloy**
Dinçer M. Ş., Ozcatalbas M., Acar S. S., Music Ö., ŞİMŞİR C.
26th International ESAFORM Conference on Material Forming, ESAFORM 2023, Krakow, Poland, 19 - 21 April 2023, vol.28, pp.667-674
- II. **A Material Perspective on Consequences of Deformation Heating During Stamping of DP Steels**
Şimşir C., Davut K., Efe M., Çetin B.

International Deep Drawing Research Group (IDDRG), Munich, Germany, 2 - 06 July 2017, vol.896

- III. **A Potential Solution to Mystical Materials in Indentation Test**
Billur E., Cetin B., Music O., Simsir C., Davut K.
International Conference on the Technology of Plasticity (ICTP), Cambridge, Canada, 17 - 22 September 2017, vol.207, pp.962-967
- IV. **Determination of Factors Influencing Distortion of Carburized Quenching of Steel Shafts Using DoE with Computer Simulations**
Yılmaz H., Yazır B., Yıldız S., DAVUT K., ŞİMŞİR C.
18th International Metallurgy and Materials Conference (IMMC2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.932-936
- V. **Determination of Isothermal Austenite Grain Growth Model Parameters for SAE 8620H Carburizing Steel**
Yıldız S., Yılmaz H., Yazır B., Evcil E., ŞİMŞİR C., DAVUT K.
18th International Metallurgy and Materials Conference (IMMC2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.485-489
- VI. **Sensitivity Analysis of Distortion of Carburized Steel Shafts Using Computer Simulations**
Yazır B., Evcil E., Yıldız S., DAVUT K., ŞİMŞİR C.
18th International Metallurgy Materials Congress (IMMC2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.385-389
- VII. **Nondestructive Monitoring of the Variations in Microstructure and Residual Stress in the Carburized Steels**
Hızlı H., DAVUT K., ŞİMŞİR C., GÜR C. H.
19th World Conference on Non-Destructive Testing, Munich, Germany, 13 - 17 June 2016
- VIII. **Simulation of Through Hardening of SAE 52100 Steel Bearings Part I Determination of Material Properties**
Müstak O., ŞİMŞİR C.
5th International Conference on Distortion Engineering (IDE2015), Bremen, Germany, 23 - 25 September 2015, pp.456-466
- IX. **Simulation of Through Hardening of SAE 52100 Steel Bearings Part II Validation at Industrial Scale**
Evcil E., Müştak O., ŞİMŞİR C.
5th International Conference on Distortion Engineering (IDE2015), Bremen, Germany, 23 - 25 September 2015, pp.465-472
- X. **Evaluating the Stress State of Steels by Simultaneous X ray Diffraction and Magnetic Barkhausen Noise Measurements during Four point Bending Tests**
Öztürk Z., DAVUT K., ŞİMŞİR C.
11th Int Conf on Barkhausen Noise Micromagnetic Testing (ICBM 11), İzmir, Turkey, 18 - 20 June 2015
- XI. **Optimization of Sensitivity and Reliability of Magnetic Barkhausen Technique for Detecting Hardness Differences on Quenched and Tempered AISI 4140 Steels**
Arslan E., DAVUT K., ŞİMŞİR C.
11th Int Conf on Barkhausen Noise Micromagnetic Testing (ICBM 11), İzmir, Turkey, 18 - 20 June 2015
- XII. **Non destructive Characterization of Prior Austenite Structure of AISI D2 Tool Steel by Magnetic Barkhausen Noise Technique**
DAVUT K., KILIÇLI V., Murathan Ö. F., ŞİMŞİR C.
11th Int Conf on Barkhausen Noise Micromagnetic Testing (ICBM 11), İzmir, Turkey, 18 - 20 June 2015
- XIII. **Determination of Flow Curves of the Metastable Austenite**
Şimşir C., Müştak O., Davut K., Gür C. H.
International Metallurgy and Materials Engineering Conference (IMMC`2014), İstanbul, Turkey, 01 September 2014, pp.464-470
- XIV. **Experimental Investigation of Transformation Plasticity of SAE 52100 Bearing Steel**
Şimşir C., Müştak O., Davut K., Gür C. H.
2nd International Conference of Metal Forming (METFORM`2014), İstanbul, Turkey, 01 January 2014

- XV. **Review on the Heat Treatment Simulation in Gear Manufacturing**
 Şimşir C., Felde E.
 2nd Mediterranean Conference on Heat Treatment and Surface Engineering, Dubrovnik, Croatia, 11 - 13 June 2013, pp.419-428
- XVI. **Simulation and optimization in quenching technology for automotive components**
 Felde I., Simsir C.
 1st International Conference and Exhibition on Heat Treatment and Surface Engineering, HT and SE 2013, Chennai, India, 16 - 18 May 2013, pp.145-154
- XVII. **Simulation of the Deformation and Residual Stress Evaluation during Tempering of a Hot Work Tool Steel**
 Eser A., Bezold A., Bröckmann C., ŞİMŞİR C.
 3rd International Conference on Distortion Engineering, IDE 2011, Bremen, Germany, 14 - 16 September 2011, pp.515-522
- XVIII. **Simulation des Verzugs beim Anlassen dickwandiger Bauteile aus 56NiCrMoV7**
 Şimşir C., Eser A., Bezold A., Broeckmann C.
 Haertere Kolloquium 2012, Wiesbaden, Germany, 10 - 12 October 2012
- XIX. **FEM Modelling of the Distortion of the Blank Case Hardened Gear Blanks due to Chemical Banding**
 ŞİMŞİR C., Hunkel M., Rentsch R., Lütjens J.
 6th International Conference on Quenching and Control of Distortion, Chicago, Illinois, United States Of America, 9 - 13 September 2012, pp.465-476
- XX. **Tempering of Tool Steels – A Multiscale Simulation**
 Şimşir C., Eser A., Broeckmann C., Kozeschnik E.
 9th International Congress on Tooling, Leoben, Austria, 11 - 14 September 2012
- XXI. **Investigation of Surface Residual Stresses on the Deep-Drawn Steel Sheets**
 Şimşir C., Adigüzel S., Gür C. H.
 16th International Metallurgy and Materials Congress (IMMC'12), İstanbul, Turkey, 13 - 15 September 2012
- XXII. **Anisotropic Transformation Strain and Its Consequences on Distortion during Austenitization**
 Şimşir C., Lübben T., Hunkel M., Hoffmann F.
 5th International Metallurgy and Materials Engineering Conference (IMMC), İstanbul, Turkey, 01 June 2012
- XXIII. **The Prediction of Distortion of Case Hardened Gear Blanks by Considering the Effect of Prior Manufacturing Operation**
 ŞİMŞİR C., Hunkel M., Lütjens J., Rentsch R.
 3rd International Conference on Distortion Engineering, IDE 2011, Bremen, Germany, 14 - 16 September 2011
- XXIV. **The Prediction of Distortion of Blank Hardened Gear Blanks by Considering the Effect of Prior Manufacturing Operations**
 ŞİMŞİR C., Eisbrecher I., Hunkel M., Lübben T., Hoffmann F.
 The 10th International Conference on Technology of Plasticity, ICTP 2011, Aachen, Germany, 25 - 30 September 2011, pp.386-391
- XXV. **Simulation of Deformation and Residual Stress Evolution during Quenching and Tempering of Tool Steel**
 Şimşir C., Eser A., Bezold A., Broeckmann C., Bambauer K.
 3rd International Conference on Heat Treatment and Surface Engineering of Tools and Dies, Wels, Austria, 01 January 2011, pp.33-42
- XXVI. **Metallurgical influence on quench distortion of SAE 52100 long cylinders**
 Maradit B. P., Simsir C., Lubben T., Gur C. H.
 65th ABM International Congress, 18th IFHTSE Congress and 1st TMS/ABM International Materials Congress 2010, Rio de Janeiro, Brazil, 26 - 30 July 2010, vol.6, pp.4833-4841
- XXVII. **Prediction of distortions in through hardening of cylindrical steel workpieces by dimensional analysis**
 Şimşir C., Lübben T., Hoffmann F., Zoch W., Wolff M.
 Proceedings of the New Challenges in Heat Treatment and Surface Engineering (CHTSE), Dubrovnik, Croatia, 9 - 12

June 2009, pp.351-358

- XXVIII. **Investigating the Influence Of Quenching Conditions, Diameter and Material Inhomogeneity on Distortion of Steel Shafts**
Şimşir C., Maradit B., Lübben T., Gür C. H.
European Congress on Advanced Materials (EUROMAT), Glasgow, United Kingdom, 01 January 2009
- XXIX. **A new framework for simulation of heat treatments**
ŞİMŞİR C., GÜR C. H.
2nd International Conference on Distortion Engineering (IDE2008), Bremen, Germany, 17 - 19 September 2008, pp.471-479
- XXX. **Finite element investigation of the effect of hardening behavior of alloys on equal channel angular pressing performance**
Karpuz P., Simsir C., GÜR C. H., Kim H. S.
4th International Conference on Nanomaterials by Severe Plastic Deformation, Goslar, Germany, 18 - 22 August 2008, pp.1021-1026
- XXXI. **Bilgisayar simülasyonu yardımıyla su verme işlemleri sonucunda çelik iş parçalarında oluşan mikroyapının ve kalıntı gerilmelerin tayini**
Şimşir C., Gür C. H.
CD Proc of 13th Int Metallurgy-Materials Cong., İstanbul, Turkey, 9 - 12 November 2006, pp.646-659
- XXXII. **Kalıntı Gerilmeler ve Şekil Bozulmasının Tahmini için Çeliklere Su Verme İşleminin Sonlu Eleman Yöntemi ile Simülasyonu**
Şimşir C., Gür C. H.
12. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 28 September - 02 October 2005, pp.1753-1762
- XXXIII. **FE Simulation of Steel Quenching to Investigate Residual Stresses and Distortion**
ŞİMŞİR C., GÜR C. H.
1st International Conference on Distortion Engineering (IDE2005), Bremen, Germany, 14 - 16 September 2005, pp.407-414

Supported Projects

Şimşir C., Kaftanoğlu B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Metal Şekillendirme Mükemmeliyet Merkezi 3 Faz Projesi, 2016 - 2021

Şimşir C., İmer B., Yardımcı G., İlhan Ş., Ünlü U. C., TUBITAK Project, MİLKANAT E Sınıfı 130MW Bir Gaz Türbininde 1 Set Rotor ve 1 Set Stator 3 Kademe Türbin Kanadının Hassas Döküm Yöntemi ile Geliştirilmesi ve Üretimi, 2014 - 2020

Şimşir C., Akbulut G., Project Supported by Defense Industry, ÖRS Titanyum ve Süperalaşım Dövme Teknolojisinin Geliştirilmesi, 2016 - 2019

Şimşir C., Efe M., TUBITAK Project, Çift Fazlı Çeliklerin Yüksek Sıcaklık Ve Endüstriyel Deformasyon Hızlarında Şekillendirilebilirliği, 2015 - 2019

Şimşir C., Industrial Thesis Project, YAKIT POMPA MİLİ SEMENTASYON İŞLEMİNİN BİLGİSAYAR DESTEKLİ ANALİZİ VE OPTİMİZASYONU, 2015 - 2017

Şimşir C., Başol S., Project Supported by Defense Industry, DİLEK Titanyum Alaşımının Süperplastik Şekillendirilmesi, 2014 - 2017

Şimşir C., Tur K., Tozlu İ., TUBITAK Project, TCDD İhtiyacı Mantarı Sertleştirilmiş Raylar R350 HT için Yerli Üretim Teknolojisinin Geliştirilmesi ve Üretimi, 2013 - 2017

Şimşir C., Other International Funding Programs, FEM FORGING Project 2012 1 ES1 LEO05 48343 Leonardo da Vinci Transfer of Innovation Türkiye Yürütücüsü Proje Koordinatörlüğü İspanya, 2012 - 2015

Şimşir C., Industrial Thesis Project, İnce Rulman Bileziklerindeki Su Verme Sürecinin Simülasyon Destekli Analiziyle Isıl İşlem Çarpılmalarının Azaltılması, 2012 - 2015

Şimşir C., Tekkaya A. E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Metal Şekillendirme Mükemmeliyet Merkezi 2 Faz Projesi Yürütme Kurulu Başkan Yardımcısı, 2012 - 2015

Şimşir C., Kaftanoğlu B., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, BOREN Bor Nitrit Kaplama Yetkinlik Merkezi

Altyapı Projesi Görev Yürütme Kurulu Üyesi, 2012 - 2014

Şimşir C., Tekkaya A. E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Metal Şekillendirme Mükemmeliyet Merkezi, 2008 - 2010

Metrics

Publication: 69

Citation (WoS): 288

Citation (Scopus): 454

H-Index (WoS): 9

H-Index (Scopus): 11

Non Academic Experience

Stiftung Institut für Werkstofftechnik (IWT-Bremen)

Stiftung Institut für Werkstofftechnik (IWT - Bremen)