

MIDDLE EAST TECHNICAL UNIVERSITY

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Completed Ph.D. Theses

NAME	SURNAME	SUPERVISOR	THESIS	DATE
ETİ	UYGUR	OĞURTANI TARIK	DISLOCATION INTERSTITIAL INTERACTIONS IN NIOBIUM	8/25/1971
AHMET	GEVECİ	ROSENQUIST TERKEL	EQUILIBRIUM RELATIONS BETWEEN LIQUID IRON-COPPER MATTE, LIQUID METAL AND SLAG	1/12/1973
HÜRMAN R.	ERİÇ	TİMUÇİN MUHARREM	PHASE RELATIONS AND THERMODYNAMICS IN LEAD CONTAINING SULFIDE SYSTEMS	12/4/1979
ALİ ŞAKİR	BOR	ATASOY ERTUĞRUL	HIGH TEMPERATURE CREEP BEHAVIOR OF NITRIDED Fe-V Fe-Ti ALLOYS	12/4/1981
A. MACİT	ÖZENBAŞ	ATASOY ERTUĞRUL	NUCLEATION AND GROWTH STUDIES ON SELENIUM THIN FILMS	6/22/1981
RAFET	ARIKAN	DORUK MUSTAFA	THE EFFECT OF LOADING RATE, TEMPERATURE AND CRACK LENGTH ON FRACTURE INITIATION TOUGHNESS IN A LOW STRENGTH STEEL	6/25/1982
BİROL	SONUPARLAK	TİMUÇİN MUHARREM	EXAMINATION OF KAOLINITE-MULLITE REACTION SERIES	4/7/1983
MEHMET HİLMİ	GÜLER	ANKARA ALPAY	EXPERIMENTAL INVESTIGATION OF THE BEHAVIOR OF FILAMENT-WOUND GLASS FIBER REINFORCED PLASTIC TUBES UNDER AXIAL COMPRESSIVE AND HOOP TENSILE STRESSES	10/3/1985
FİLİZ	SARIOĞLU	DORUK MUSTAFA	CORRELATION BETWEEN YIELDING FRACTURE MECHANICS PARAMETERS AND THE CRACK GROWTH RATE OF A LOW STRENGTH STEEL IN AN AMMONIUM CARBONATE SOLUTION	10/3/1985
RIZA	GÜRBÜZ	DORUK MUSTAFA	EFFECT OF ORIENTATION ON SALT WATER FOG ENHANCED FATIGUE CRACK GROWTH BEHAVIOR OF 7050 T73651 ALUMINUM ALLOY	12/29/1987
BİLGEHAN	ÖGEL	TEKİN ERDOĞAN	THE EFFECT OF DOUBLE AUSTENITIZATION ON MICROSTRUCTURE AND FRACTURE TOUGHNESS OF AISI M2 HIGH SPEED STEELS	12/13/1989
TURGUT	AKYÜREK	BİLİR ÖMER GÜNDÜZ	DAMAGE TOLERANCE OF LIFE ESTIMATION OF CRITICAL PARTS OF A FIGHTER AIRCRAFT	1/8/1991
ONUR	ÇOKGÖR	TOPKAYA YAVUZ	SEPARATION OF COPPER AND COBALT FROM HYRITE LEACH SOLUTION BY SOLVENT EXTRACTION	5/30/1991
ERGİN	NOYAN	ATALA HALUK	SHAPE MEMORY ALLOY DESIGN	9/14/1990
FARUK	ELALDI	ANKARA ALPAY	DESIGN FABRICATION AND COMPRESSION TESTING OF STIFFENED COMPOSITE PANELS FOR AIRCRAFT STRUCTURES	7/17/1992

NASSER AHMED	FAYAD	DORUK MUSTAFA	STUDY OF STRESS CORROSION CRACKING SUSCEPTIBILITY OF 7050-T73651 ALUMINUM ALLOY IN 3.5% NaCl	6/23/1993
ABDİ	AYDOĞDU	SEVİNÇ NACİ	PRODUCTION OF BORON NITRIDE	8/27/1993
NURŞEN	KOÇ	TİMUÇİN MUHARREM	ACTIVITY-COMPOSITION RELATIONS IN $MnCr_2O_4$ - $CoCr_2O_4$ SOLID SOLUTIONS AND STABILITIES OF $MnCr_2O_4$ AND $CoCr_2O_4$	9/10/1993
TEVFİK ALP	ALANYALIOĞLU	DORUK MUSTAFA	PITTING CORROSION IN BASE METAL DENTAL CASTING ALLOYS	6/24/1994
MEHMET KADRİ	AYDINOL	BOR A. ŞAKİR	COMPUTER SIMULATION OF TEM IMAGES: COMPOSITE PRECIPITATES IN Al-Li-Zr ALLOYS	9/28/1994
HALİT	KALEBOZAN	SELÇUK EKREM	MEASUREMENT OF SURFACE TENSION AND INVESTIGATION OF INTERFACIAL PROPERTIES OF LIQUID Cu, Al, AND Al-Si, BRONZE ALLOYS ON VARIOUS REFRACTORY OXIDES	9/30/1994
CEVDET	KAYNAK	ANKARA ALPAY	BEHAVIOR OF SHORT CRACK IN A STEEL WITH ELONGATED INCLUSIONS	10/21/1994
CEMİL HAKAN	GÜR	TAYFUR ÖZTÜRK	FINITE ELEMENT MODELING AND MEASUREMENT OF STRESS EVOLUTION IN QUENCHING PROCESSES	8/10/1995
SAMI MOH'D KHAIR AHM	MASADEH	DORUK MUSTAFA	CATHODIC HYDROGEN EMBRITTLEMENT OF PRE-STRESSING STEEL WIRES IN SIMULATED CONCRETE ENVIRONMENT	1/12/1996
NURŞEN	GÜRESİN	GEVECİ AHMET	OXIDATIVE PRESSURE LEACHING OF ÇAYELİ ZINC SULPHIDE CONSTANT RATE	1/26/1996
RAUF	GÜNGÖR	OĞURTANI TARIK	MATHEMATICAL MODELLING AND COMPUTER SIMULATION OF INTERNAL FRICTION SPECTRUM ASSOCIATED WITH INTERACTION BETWEEN DISLOCATIONS AND FOREIGN INTERSTITIAL ATOMS	1/26/1996
İBRAHİM	ÇAM	TİMUÇİN MUHARREM	PHASE EQUILIBRIA AND THERMODYNAMIC STUDIES IN THE SYSTEM IRON-NICKEL-OXYGEN AT 1300°C	1/26/1996
KAZIM	TUR	ANKARA ALPAY	STRENGTH AND STRESS CORROSION RESISTANCE OPTIMIZATION OF THICK PLATE Al-7075 ALLOY	4/19/1996
FEYYAZ ÖNDER	ORHANER	TEKİN ERDOĞAN	CREEP BEHAVIOR DETERMINATION AND REMAINING LIFE ESTIMATION FOR CENTRIFUGALLY CAST TUBES MADE OF Nb-STABILIZED 25/35 Cr Ni IRON-BASED SUPERALLOY	10/31/1996
MURAT CAN	OCAKTAN	TOPKAYA YAVUZ	RECOVERY OF LEAD AND CADMIUM FROM ÇINKUR WAELEZ OXIDE BY USING CHLORIDIZING VOLATILIZATION METHOD	11/8/1996
HACER	AYGÜN	SELÇUK EKREM	INVESTIGATION OF MOTTILING IN RADIOGRAPHY OF DIRECTIONALLY SOLIDIFIED Ni-BASED ALLOY GAS TURBINE BLADES	12/20/1996
HÜSNİYE	YAROĞLU	ÖZENBAŞ MACİT	FORMATION OF INTERMETALLIC PHASES AT THE METAL-SILICON INTERFACES	1/16/2001
BESİM GÖKÇE	DARA	ANKARA ALPAY	THERMAL LOADING EFFECTS ON CFRP COMPOSITES	1/18/2001

ERSİN EMRE	ÖREN	<i>OĞURTANI TARIK</i>	COMPUTER SIMULATION OF ELECTROMIGRATION INDUCED VOID-GRAIN BOUNDARY INTERACTIONS AND THE PREDICTION OF CATHODE FAILURE TIMES IN BAMBOO STRUCTURES	1/24/2003
MEHMET KAAN	PEHLİVANOĞLU	<i>AKDENİZ M. VEDAT</i>	PRODUCTION AND DEVELOPMENT OF BULK METALLIC GLASSES	6/12/2003
MEHMET	KUL	<i>TOPKAYA YAVUZ A.</i>	RECOVERY OF RARE EARTH METAL FROM BEYLİKAHİR - ORE	6/19/2003
ALPER TUNGA	DAVUTOĞLU	<i>AYDINOL M. KADRİ</i>	MOLECULAR DYNAMICS STUDIES OF DIFFUSION BEHAVIOR IN ALUMINUM-COPPER METALS AND ALLOYS	9/5/2003
ELİF	TARHAN	<i>BOR A. ŞAKİR</i>	AGING CHARACTERISTICS OF COPPER BASED SHAPE MEMORY ALLOYS	1/22/2004
MEHMET	ŞİMŞİR	<i>ÖZTÜRK TAYFUR</i>	INVESTIGATION OF FRACTURE BEHAVIOUR STEEL/STEEL LAMINATES	3/12/2004
CANER	BATIGÜN	<i>ANKARA ALPAY</i>	DETERMINATION OF WELDING PARAMETER DEPENDENT HOT CRACKING SUSCEPTIBILITY OF 5086-H32 ALUMINIUM ALLOY WITH THE USE OF MVT METHOD	1/14/2005
MUSTAFA	ÜBEYLİ	<i>ÖGEL BİLGEHAN</i>	A COMPARISON OF BALLISTIC BEHAVIOR OF STEEL AND LAMINATED COMPOSITE ARMORS	4/13/2005
YUSUF ZİYA	KARABAY	<i>BOR A. ŞAKİR</i>	PRODUCTION CHARACTERIZATION AND APPLICATION OF (TiNi) SHAPE MEMORY ALLOYS	7/24/2006
GÖKHAN	DEMİRCİ	<i>KARAKAYA İSHAK</i>	ELECTROLYTIC MAGNESIUM PRODUCTION USING COAXIAL ELECTRODES	8/1/2006
HASAN ERDEM	ÇAMURLU	<i>SEVİNÇ NACİ</i>	CARBOTHERMIC PRODUCTION OF HEXAGONAL BORON NITRIDE	11/1/2006
OMAR	EL-MABROUK	<i>KALKANLI A.</i>	AN INVESTIGATION OF COMPACTED GRAPHITE IRON PRODUCTION BY MEANS OF THERMAL ANALYSIS TECHNIQUE AND OTHER PROCESS CONTROL WINDOWS	1/10/2007
MUSTAFA SERDAR	KARAKAŞ	<i>ÖGEL BİLGEHAN</i>	EFFECT OF AGING ON THE MECHANICAL PROPERTIES OF B4C PARTICLE REINFORCED AL - 4% Cu METAL MATRIX COMPOSITES	9/7/2007
ZİYA	ESEN	<i>BOR A. ŞAKİR</i>	PRODUCTION AND CHARACTERIZATION OF POROUS TITANIUM ALLOYS	10/16/2007
ENDER	KESKİNKILIÇ	<i>GEVECİ AHMET</i>	EXAMINATION OF DESULFURIZATION BEHAVIOUR OF LADLE FURNACE SLAGS OF A LOW-SULFUR STEEL	10/17/2007
JONG EE	PARK	<i>ÖZTÜRK ABDULLAH</i>	DEVELOPMENT OF A GLASS-CERAMIC FOR BIOLOGICAL APPLICATIONS	2/5/2008
CANER	ŞİMŞİR	<i>GÜR C. HAKAN</i>	3D FINITE ELEMENT SIMULATION OF STEEL QUENCHING IN ORDER TO DETERMINE THE MICROSTRUCTURE AND RESIDUAL STRESSES	2/21/2008
ARDA	ÇETİN	<i>KALKANLI ALİ</i>	ASSESSMENT AND MODELLING OF PARTICLE CLUSTERING IN CAST ALUMINUM MATRIX COMPOSITES	4/14/2008

SÜHA	TİRKEŞ	<i>ANKARA ALPAY</i>	HOT CRACKING SUSCEPTIBILITY OF TWINROLL CAST Al-Mg ALLOYS	10/9/2009
ÖNCÜ	AKYILDIZ	<i>OĞURTANI TARIK</i>	COMPUTER SIMULATION OF GRAIN BOUNDARY GROOVING BY ANISOTROPIC SURFACE DRIFT DIFFUSION DUE TO CAPILLARY, ELECTROMIGRATION AND ELASTOSTATIC FORCES	5/31/2010
TARIK	AYDOĞMUŞ	<i>BOR A. ŞAKİR</i>	PROCESSING AND CHARACTERIZATION OF POROUS TITANIUM NICKEL SHAPE MEMORY ALLOYS	7/30/2010
ÖZGE	ACARBAŞ BALTACI	<i>ÖZENBAŞ A. MACİT</i>	PRODUCTION AND CHARACTERIZATION OF MAGHEMITE NANOPARTICLES	9/14/2010
HASAN	AKYILDIZ	<i>ÖZTÜRK TAYFUR</i>	HYDROGEN STORAGE IN MAGNESIUM BASED THIN FILMS	10/15/2010
VOLKAN	KALEM	<i>TİMUÇİN MUHARREM</i>	DEVELOPMENT OF PIEZOELECTRIC CERAMICS FOR ULTRASONIC MOTOR APPLICATIONS	1/12/2011
SERDAR	TAN	<i>ÖZTÜRK TAYFUR</i>	DIRECT SYNTHESIS OF HYDROGEN STORAGE ALLOYS FROM THEIR OXIDES	2/18/2011
GÜLHAN	ÇAKMAK	<i>ÖZTÜRK TAYFUR</i>	THE PROCESSING OF Mg-Ti POWDER FOR HYDROGEN STORAGE	2/24/2011
AYTAÇ	ÇELİK	<i>OĞURTANI TARIK</i>	INVESTIGATION OF ELECTROMIGRATION AND STRESS INDUCED SURFACE DYNAMICS ON THE INTERCONNECT BY COMPUTER SIMULATION	3/14/2011
PINAR	KARPUZ	<i>GÜR C. HAKAN</i>	INVESTIGATION OF THE EFFECTS OF EQUAL CHANNEL ANGULAR EXTRUSION ON LIGHT WEIGHT ALLOYS	1/27/2012
NAGEHAN	DUMAN	<i>MEHRABOV AMDULLA</i>	MAGNETIC MONITORING APPROACH TO KINETICS OF PHASE TRANSFORMATIONS IN MULTICOMPONENT ALLOY SYSTEMS	2/9/2012
NİHAT ALİ	İŞİTMAN	<i>KAYNAK CEVDET</i>	FLAME RETARDANCY OF POLYMER NANOCOMPOSITES	3/2/2012
EVREN	TAN	<i>ÖGEL BİLGEHAN</i>	SEVERE PLASTIC DEFORMATION OF AGE HARDENABLE ALUMINUM ALLOYS	9/14/2012
GÜL	ÇEVİK	<i>GÜRBÜZ RIZA</i>	EVALUATION OF EFFECT OF FILLET ROLLING PROCESS ON THE FATIGUE PERFORMANCE OF A DIESEL ENGINE CRANKSHAFT	9/17/2012
GÜL İPEK	NAKAŞ	<i>BOR A. ŞAKİR</i>	THE PROCESSING OF POROUS Ni-RICH TiNi ALLOYS VIA POWDER METALLURGY AND THEIR CHARACTERIZATION	9/28/2012
AYDIN	RÜŞEN	<i>GEVECİ AHMET</i>	USAGE OF BORON COMPOUNDS IN COPPER PRODUCTION	2/1/2013
METEHAN	ERDOĞAN	<i>KARAKAYA İSHAK</i>	RECOVERY OF TUNGSTEN FROM TUNGSTEN BEARING COMPUNDS	2/1/2013
KORAY	YURTIŞIK	<i>GÜRBÜZ RIZA</i>	KINETICS AND MICROSTRUCTURAL ANALYSIS OF FATIGUE FRACTURE PROGRESS IN WELD JOINTS OF DUPLEX STAINLESS STEEL GRADE 2205	6/27/2013
EBRU	SARALOĞLU GÜLER	<i>KARAKAYA İSHAK</i>	ELECTROCODEPOSITION OF MOLYBDENUM DISULFIDE PARTICLES IN NICKEL MATRIX	7/12/2013

NECMETTİN KAAN	ÇALIŞKAN	<i>BOR A. ŞAKİR</i>	PROCESSING AND CHARACTERIZATION OF HIGH DENSITY TUNGSTEN-NICKEL-IRON ALLOYS	7/30/2013
ATIL	BÜYÜKBURÇ	<i>AYDINOL M. KADRİ</i>	DEVELOPMENT AND CHARACTERIZATION OF HIGH ENERGY CATHODE MATERIALS FOR LITHIUM-ION BATTERIES	8/2/2013
SELEN NİMET	GÜRBÜZ	<i>DERİCİOĞLU ARCAN</i>	PROCESSING AND CHARACTERIZATION OF BRICK-AND-MORTAR STRUCTURED BULK BIO-INSPIRED COMPOSITES	8/29/2013
ABDELRAHMAN SALEH	SULTAN	<i>KARAKAYA İSHAK</i>	EFFECT OF CHROMIUM ON THE OXIDATION OF STEELS USED IN THE CONSTRUCTION OF PETROLEUM REFINERY HEATERS	9/4/2013
SAEİD	POURNADERI	<i>GEVECİ AHMET</i>	OPTIMIZATION OF FERRONICKEL PRODUCTION FROM SIVRIHISAR NICKEL LATERITE ORE	5/15/2014
HALİL İBRAHİM	YAVUZ	<i>ÖZENBAŞ A. MACİT</i>	DESIGN OF HIGH-EFFICIENCY DYE-SENSITIZED NANOCRYSTALLINE SOLAR CELLS	9/4/2014
GÜHER	KOTAN	<i>GÜR C. HAKAN</i>	INVESTIGATION OF MICROSTRUCTURAL MODIFICATIONS AND RELATED MECHANISMS IN SEVERELY DEFORMED AL-ALLOYS	9/10/2014
MEHMET	YILDIRIM	<i>AKDENİZ M. VEDAT</i>	DESIGN AND DEVELOPMENT OF IRON-ALUMINIUM INTERMETALLIC COMPOUNDS FOR STRUCTURAL APPLICATIONS AT HIGH TEMPERATURES	12/18/2014
ÖZLEM	ALTINTAŞ YILDIRIM	<i>DURUCAN CANER</i>	SYNTHESIS OF ZINC OXIDE NANOPARTICLES BY AQUEOUS METHODS AND EFFECT OF METAL INCORPORATION ON THE STRUCTURAL/FUNCTIONAL PROPERTIES OF NANOPARTICLES	12/23/2014
DERYA	KAPUSUZ	<i>ÖZTÜRK ABDULLAH</i>	DEVELOPMENT AND PHOTOCATALYTIC PROPERTIES OF POTASSIUM TITANATE NANOSTRUCTURE EMBEDDED RESIN COMPOSITES	2/2/2016
NURİYA	GARİPOVA	<i>GÜR C.HAKAN</i>	NUMERICAL INVESTIGATION OF RESIDUAL STRESSES, DISTORTION AND MICROSTRUCTURE EVOLUTION IN MULTI-PASS WELDED STEEL COMPONENTS	9/21/2016
ŞERİF	KAYA	<i>TOPKAYA YAVUZ ALİ</i>	EXTRACTION OF SCANDIUM FROM A LATERITIC NICKEL-COBALT ORE BY MEANS OF HYDROMETALLURGICAL TECHNIQUES	9/28/2016
NURSEV	BİLGİN	<i>ÖZTÜRK ABDULLAH</i>	HYDROTHERMAL SYNTHESIS OF TiO ₂ NANOSTRUCTURES FOR PHOTOCATALYTIC AND PHOTOVOLTAIC APPLICATIONS	2/1/2017
GÖKSU	GÜRER	<i>GÜR C.HAKAN</i>	NUMERICAL PREDICTION AND EXPERIMENTAL INVESTIGATION OF FRETING FATIGUE CRACK INITIATION AT RAILWAY AXLE - WHEEL CONTACTS	4/28/2017
AYŞE MERVE	GENÇ (ÜNALAN)	<i>KALAY Y. EREN</i>	DEVELOPMENT OF RARE-EARTH FREE PERMANENT MAGNETS	10/11/2017
ŞAHİN	COŞKUN	<i>ÜNALAN H. EMRAH</i>	APPLICATIONS OF SILVER NANOWIRE NETWORKS IN OPTO-ELECTRONIC DEVICES	1/30/2018
FATİH	PİŞKİN	<i>ÖZTÜRK TAYFUR</i>	A COMBINATORIAL STUDY ON HYDROGEN SEPARATION MEMBRANES	4/30/2018
BERKE	PİŞKİN (ÖKSÜZ)	<i>AYDINOL M. KADRİ</i>	DEVELOPMENT AND CHARACTERIZATION OF NEW LAYERED CATHODE MATERIALS FOR LITHIUM ION BATTERIES	4/30/2018

MUSTAFA BURAK	COŞAR	<i>ÖZENBAŞ MACİT</i>	TUNING THE ELECTRON BEAM EVAPORATION PARAMETERS FOR THE PRODUCTION OF HOLE AND ELECTRON TRANSPORT LAYERS FOR PEROVSKITE SOLAR CELLS	6/28/2019
İSMAİL SEÇKİN	ÇARDAKLI	<i>KALKANLI ALİ</i>	DEVELOPMENT OF FUNCTIONALLY GRADED ALUMINUM MATRIX COMPOSITE MATERIALS FOR DEFENSE INDUSTRY APPLICATIONS	9/5/2019