

CURRICULUM VITAE



H-index: 19

Citations: 1707

EDUCATION and QUALIFICATIONS:

- 1988-93 PhD., Materials Science, University of Oxford, England.
(on a full scholarship from The Turkish Ministry of Education)
- 1987-88 (MSc. Lectures attended for one academic year, UMIST, Manchester, England)
(on a full scholarship from The Turkish Ministry of Education)
- 1984-86 MSc., Materials Science, Istanbul Technical University, Turkey.
- 1980-84 BSc., Metallurgical Engineering, Istanbul Technical University, Turkey.
- 2003-08 One of the two independent global referees for aircraft engines coated parts on behalf of General Electric Aircraft Engines of USA.

EMPLOYMENT

- 2008 June-... Professor, Head of Metallurgy and Materials Eng. Dept., Mugla S.K. University, Engineering Faculty, Mugla, Turkey.
- 2008-2011 Advisory to University Rector, in charge of establishment of Research Laboratories Center of Mugla University (a project with a budget of 20 Million TL funded by State Planning Department –DPT-), Mugla, Turkey.
- 2008-2011 Head of Scientific Research Projects Coordination Office, Mugla University, Turkey.
- 2006-2013 Part-time lecturer, Anadolu University, Eng. Faculty, Materials Eng., Eskisehir.
- 1999-2008 Manager of Electron Microscopy Laboratories and Head of Metals Technologies Research Group, TUBITAK-MRC (Turkish National Scientific and Technological Council-Marmara Research Center), Materials Research Institute, Gebze, Kocaeli.
- 2001-2002 Research Advisor, Istanbul Technical University, Prof. Dr. Adnan Tekin Research Center, Istanbul. (part-time position)
- 1998-99 Postdoctoral Fellow, Materials Sci.&Eng. Department, Ben-Gurion University, Israel.
- 1996-98 Postdoctoral Fellow, (conducting research on microalloyed steels for BHP), University of New South Wales, Sydney Australia.
- 1993-96 Lecturer, Marmara University, Technical Education Faculty, Istanbul, Turkey.
- 1993-96 Research Advisor, TUBITAK-MRC, Materials Research Institute, Materials Group,

Gebze, Turkey.

1986 Engineer, Nonferrous Continuous Casting, Koresmetal, K.Cekmece, Istanbul, Turkey.

PRIZES: 2 international, and 8 National level

PATENTS: 1 EUROPEAN PATENT (EP 1 887 101 B1)

Book Chapters

- A. Arslan KAYA, M. Pekguleryuz and D. Eliezer, High Temperature Deformation, Alloys and Processing of Magnesium, Chapter 2 in ‘Deformation and Processing of Structural Materials’, ed. Z. Xiao Guo, Woodhead Publishing, Cambridge, England, 2005.
ISBN 0-8493-2578-1
- A. Arslan KAYA, Physical Metallurgy of Magnesium Alloys, in ‘Fundamentals of Magnesium Alloy Metallurgy’, Editors: Prof. Mihriban O. Pekguleryuz, Prof. Karl Kainer, Prof. A. Arslan Kaya, pp.33-84, Woodhead Publishing, Cambridge, England, 2013. ISBN: 978-0-85709-088-1

Editorial: 2 publications

International Congress Paper: 74 Oral presentations

Publications (35 in total- 10 most cited ones are given) (Total Citations: 1707)

Creep resistant magnesium alloys for powertrain applications

MO Pekguleryuz, AA Kaya
Advanced engineering materials 5 (12), 866-878

Fundamentals of magnesium alloy metallurgy

MO Pekguleryuz, K Kainer, AA Kaya
Elsevier

Fundamentals of magnesium alloy metallurgy

MO Pekguleryuz, K Kainer, AA Kaya
Elsevier

Microstructure of HK40 alloy after high temperature service in oxidizing/carburizing environment: I. Oxidation phenomena and propagation of a crack

AA Kaya, P Krauklis, DJ Young
Materials characterization 49 (1), 11-21

Corrosion of magnesium alloy AZ31 screws is dependent on the implantation site

E Willbold, AA Kaya, RA Kaya, F Beckmann, F Witte
Materials Science and Engineering: B 176 (20), 1835-1840

Investigation on the Potential of Magnesium Alloy AZ31 as a Bone Implant

GOAAK O. Duygulu, R. Alper Kaya
Materials Science Forum 546, 421-424

Microstructure and corrosion behavior of Mg–Zn–Ag alloys

G Ben-Hamu, D Eliezer, A Kaya, YG Na, KS Shin

Materials Science and Engineering: A 435, 579-587

The effects of magnesium particles in posterolateral spinal fusion: an experimental in vivo study in a sheep model

RA Kaya, H Çavuşoğlu, C Tanik, AA Kaya, Ö Duygulu, Z Mutlu, E Zengin, ...
Journal of Neurosurgery: Spine 6 (2), 141-149

Electron microscopical investigation of as cast AZ91D alloy

AA Kaya, P Uzan, D Eliezer, E Aghion
Materials science and technology 16 (9), 1001-1006

Effect of manganese on the creep behavior of magnesium and the role of α -Mn precipitation during creep

M Celikin, AA Kaya, M Pekguleryuz
Materials Science and Engineering: A 534, 129-141

Effects of manganese on the microstructure and dynamic precipitation in creep-resistant cast Mg–Ce–Mn alloys

M Celikin, AA Kaya, R Gauvin, M Pekguleryuz
Scripta Materialia 66 (10), 737-740

The influence of nitridation time on the structural properties of GaN grown on Si (111) substrate

E Arslan, MK Ozturk, Ö Duygulu, AA Kaya, S Ozcelik, E Ozbay
Applied Physics A 94 (1), 73-82

Production of 150 cm wide AZ31 magnesium sheet by twin roll casting

AA Kaya, O Duygulu, S Ucuncuoglu, G Oktay, DS Temur, O Yucel
Transactions of Nonferrous Metals Society of China 18, 185-188

Microstructural investigation and the creep behavior of Mg–Sr–Mn alloys

M Celikin, AA Kaya, M Pekguleryuz
Materials Science and Engineering: A 550, 39-50

Microstructure and creep properties of a cast Mg-1.7% wt rare earth-0.3% wt Mn alloy

D Weiss, AA Kaya, E Aghion, D Eliezer
Journal of materials science 37 (24), 5371-5379

Nonclassical decomposition products of austenite in Fe-C-Cr alloys

AA Kaya, DV Edmonds
Metallurgical and Materials Transactions A 29 (12), 2913-2924

