

Curriculum Vitae

Name: Kei Ameyama

Date of Birth: April 2, 1955 (Sex: Male)

Academic Institution:

Professor, Department of Mechanical Engineering, Faculty of Science and Engineering, Ritsumeikan University

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Education:

1979, 3 Graduated from Graduate School of Metals and Materials Science and Technology, Kyoto University, Kyoto, Japan

1983, 3 Master Degree, Graduate School of Metals and Materials Science and Technology, Kyoto University, Kyoto, Japan

1987, 1 PhD (Kyoto University), Graduate School of Metals and Materials Science and Technology, Kyoto University, Kyoto, Japan

Title of thesis: "Precipitation Behavior of γ Phase in Dual Phase Stainless Steels"

Occupational Experience:

1979~1980: SHINSYU SEIKI Co. Ltd. (Present: SEIKO EPSON Co. Ltd.).

1986~1992: Assistant Professor, Department of Mechanical Engineering, Faculty of Science and Engineering, Ritsumeikan University.

1992 ~ 1996: Associate Professor, Department of Mechanical Engineering, Faculty of Science and Engineering, Ritsumeikan University.

1996,4~present: Professor, Department of Mechanical Engineering, Faculty of Science and Engineering, Ritsumeikan University.

2001,4~2004.3: Head of the Material & Manufacturing Technology Center, Ritsumeikan University.

2009, 4~2010, 3: Executive Board Member of The Japan Institute of Metals, JIM.

Prof. Dr. Kei Ameyama was born in Komatsu, a middle west Japan sea coast city of Japan, in 1955. He studied Materials Science at the Kyoto University and after completing his PhD he joined with Department of Mechanical Engineering, Faculty of Science and Engineering, Ritsumeikan University as an Assistant Professor. In 1989, he spent a year as a visiting scientist at the University of Toronto, Toronto, Canada. In 1996, he became a Professor at Department of Mechanical System Engineering, Ritsumeikan University, and in 1997 Chairperson of the Department. From 2007 to 2010, he was a Vice Dean of the Faculty of Science and Engineering, Ritsumeikan University, and since 2010 he has been an Executive Director, Division of International Affairs, Ritsumeikan University.

In 2009, he has been appointed a board member of the Japan Institute of Metals, and he also has been committee member of the Iron and Steel Institute of Japan, the Society of Materials Science of Japan and Japan Society of Powder and Powder Metallurgy. In 2010, he became a Project Leader of Industry-Academia Collaborative R&D Programs funded by the Japan Science and Technology Agency.

He is now leading a research project by the Japan Science and Technology Agency (JST) under Collaborative Research Based on Industrial Demand "Heterogeneous Structure Control: Towards Innovative Development of Metallic Structural Materials". 2012-2016



Publication List: (2010.1~2014.3)

1	Reasons for Formation of Twin-Precipitates in Two Phase Stainless Steel	Naoki Miyano, Akihiro Takahashi, Seigo Kataoka and <u>Kei Ameyama</u>	Materials Science Forum	Vols . 638-642	2010	3004-3008.
2	Effects of Nano / Meso Harmonic Microstructure on Mechanical Properties in Austenitic Stainless Steel Produced by MM / HRS Process	Hiroshi Fujiwara, Hideyuki Tanaka, Masashi Nakatani and <u>Kei Ameyama</u>	Materials Science Forum	Vols . 638-642	2010	1790-1795.
3	New Microstructure Design for Commercially Pure Titanium with Outstanding Mechanical Properties by Mechanical Milling and Hot Roll Sintering	Tatsuya Sekiguchi, Keita Ono, Hiroshi Fujiwara and <u>Kei Ameyama</u>	J. of Materials Transactions	Vol. 51, No. 1	2010	39-45.
4	Cold Consolidation of Ball-Milled Titanium Powders Using High-Pressure Torsion	Kaveh Edalati, Zenji Horita , Hiroshi Fujiwara , <u>Kei Ameyama</u>	Metallurgical and Materials Transactions A	Vol. 41A	2010	3308-3317.
5	High Strength and Ductility in Ball-Milled Titanium Powders Consolidated by High-Pressure Torsion	K. Edalati, Z. Horita, H. Fujiwara, <u>K.Ameyama</u> , M. Tanaka and K. Higashida	Materials Science Forum	Vols . 654-656	2010	1239-1242.
6	Effect of Alumina Content on the Mechanical Properties of Alumina Particle Dispersion Magnesium	S.Kawamori, K.Kuroda, Y.Kasuga, M.Yokouchi, H.Fujiwara and <u>K.Ameyama</u>	J. of Materials Transactions	Vol. 51	2010	1893-1900.
7	Reasons for Formation of Twin-Precipitates in Two Phase Stainless Steel	Naoki Miyano, Akihiro Takahashi, Seigo Kataoka and <u>Kei Ameyama</u>	Materials Science Forum	Vols . 638-642	2010	3004-3008.
8	Effects of Nano / Meso Harmonic Microstructure on Mechanical Properties in Austenitic Stainless Steel Produced by MM / HRS Process	Hiroshi Fujiwara, Hideyuki Tanaka, Masashi Nakatani and <u>Kei Ameyama</u>	Materials Science Forum	Vols . 638-642	2010	1790-1795.
9	New Microstructure Design for Commercially Pure Titanium with Outstanding Mechanical Properties by Mechanical Milling and Hot Roll Sintering	Tatsuya Sekiguchi, Keita Ono, Hiroshi Fujiwara and <u>Kei Ameyama</u>	J. of Materials Transactions	Vol. 51	2010	39-45.
10	Effect of Mechanical Milling and Sintering Parameters on the Mechanical Properties of SiC-ZrO ₂	L. Anggraini, R. Yamamoto, H. Fujiwara, <u>K.Ameyama</u>	J. Ceram. Sci. Tech	Vol. 2, No.3	2011	139-146.
11	Fabrication of ultrafine-grained Ti-(5-50wt.%)Al ₂ O ₃ composites using high-pressure torsion	K. Edalati, H. Iwaoka, Z. Horita, M. Tanaka, K. Higashida, H. Fujiwara, <u>K.Ameyama</u>	J. Kovove Mater	Vol. 49	2011	85-92.
12	Creation of Harmonic Structure Materials with Outstanding Mechanical Properties	<u>Kei Ameyama</u> and Hiroshi Fujiwara	Materials Science Forum	Vols . 706-709	2012	9-16.

13	Mechanical Properties of Hot-Pressed Compacts Made by Alumina Particle Dispersion Magnesium Powders	Shigehiro Kawamori, Kiyoshi Kuroda, Hiroshi Fujiwara and <u>Kei Ameyama</u>	Materials Science Forum	Vols . 706-709	2012	1915-1920
14	Effects of SiO ₂ Particles on Deformation of Mechanically Milled Water-Atomized SUS304L Powder Compacts	Zhe Zhang, Muhammad Rifaii, Hiroshi Kobayakawa, Octav Paul Ciuca, Hiroshi Fujiwara, Akira Ueno and <u>Kei Ameyama</u>	J. Materials Transactions	Vol. 53, No. 1	2012	109-115.
15	Effect of Particle Morphology on Sinterability of SiC-ZrO ₂ in Microwave	Lydia Anggraini and Kei Ameyama	Journal of Nanomaterials	vol. 2012 , ID 7412 14	2012	8 pages. doi:10.1155/2012/741214
16	Fractographical analysis on fracture mechanism of stainless steel having harmonic microstructure	A. Ueno, H. Fujiwara, M. Rifai, Z. Zhang, K. Ameyama	Zairyo	Vol. 61	2012	686-691.
17	Effect of high volume fraction of B ₄ C particles on the microstructure and mechanical properties of aluminum alloy based composites	Ruixiao Zheng, Xiaoning Hao, Yanbo Yuan, Zhiwei Wang, Kei Ameyama, Chaoli Ma	Journal of Alloys and Compounds	576	2013	291-298.
18	Obtaining copper with harmonic structure for the optimal balance of structure-performance relationship	Dmitry Orlov, Hiroshi Fujiwara, Kei Ameyama	J. Materials Transactions	54	2013	1549-1553
19	Harmonic Structure Design of a SUS329J1 Two Phase Stainless Steel and its Mechanical Properties	Octav Paul Ciuca, Mie Ota, Shan Deng, and Kei Ameyama	J. Materials Transactions	54	2013	1629-1633
20	A Novel Powder Metallurgy Processing Approach to Prepare Fine-grained Ti-rich TiAl-based Alloys from Pre-alloyed Powders	Sanjay K. Vajpai, Kei Ameyama	J. Intermetallics	42	2013	146-155.
21	Mechanical Properties of Harmonic Structured Composite with Pure Titanium and Ti-48 at%Al Alloy by MM/SPS Process	Hiroshi Fujiwara, Takeshi Kawabata, Hiroyuki Miyamoto, Kei Ameyama	J. Materials Transactions	54	2013	1619-1623
22	Microstructure and mechanical properties of aluminum alloy matrix composites reinforced with Fe-based metallic glass particles	Ruixiao Zheng, Han Yang, Tong Liu, Kei Ameyama, Chaoli Ma	Materials and Design	53	2014	512-518
23	Fabrication of multilayered Ti-Al intermetallics by spark plasma sintering	Yanbo Sun, Sanjay Kumar Vajpai, Kei Ameyama, Chaoli Ma	Journal of Alloys and Compounds	585	2014	734-740
24	Application of Harmonic Structure Design to Biomedical Co-Cr-Mo alloy for improved mechanical properties	Choncharoen Sawangrat, Osamu Yamaguchi, Sanjay Kumar Vajpai and Kei Ameyama	J. Materials Transactions	55	2014	99-105
25	Optimizing the strength and ductility of spark plasma sintered Al ₂ O ₃ alloy by conventional thermo-mechanical treatment	Ruixiao Zheng, Yanbo Sun, Kei Ameyama, Chaoli Ma	Materials Science & Engineering A	590	2014	147-152

26	Development of Low Temperature Nitriding Process and Its Effects on the 4-points Bending Fatigue Properties of Commercially Pure Titanium	Shoichi Kikuchi, Yuta Nakamura, Akira Ueno and Kei Ameyama	Advanced Materials Research	Vols. 891-892	2014	656-661
27	Improving Mechanical Properties of Ceramic Composites by Harmonic Microstructure Control	Lydia Anggraini, Ryohei Yamamoto, Kazuma Hagi, Hiroshi Fujiwara and Kei Ameyama	Advanced Materials Research	Vol. 896	2014	570-573.
28	Improvement of mechanical properties in SUS304L steel through the control of bimodal microstructure characteristics	Zhe Zhang , Sanjay Kumar Vajpai, Dmitry Orlov, Kei Ameyama	Materials Science & Engineering A	Vol. 598	2014	106-113
29	Fabrication and characterization of hybrid structured Al alloy matrix composite sreinforced by high volume fraction of B4C particles	Ruixiao Zheng, Jing Chen, Yitan Zhang, Kei Ameyama, Chaoli Ma	Materials Science & Engineering A	Vol. 601	2014	20-28
30	Harmonic-structured copper: performance and proof of fabrication concept based on severe plastic deformation of powders	Choncharoen Sawangrat, Shota Kato, Dmitry Orlov and Kei Ameyama	Journal of Materials Science			To be published.
31	Particle evolution in Mg-Zn-Zr alloy processed by integrated extrusion and equal channel angular pressing: Evaluation by electron microscopy and synchrotron small-angle X-Ray scattering	Dmitry Orlov, Daniele Pelliccia, Xiya Fang, Laure Bourgeois, Nigel Kirby, Andrei Y Nikulin, Kei Ameyama and Yuri Estrin	Acta Materiala			To be published.