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Department of Mechanical Engineering and Department of Science of Technology Innovation and Extreme Energy-Density Research Institute, Nagaoka University of Technology

Birthday

June 18th, 1971 (at Kobe, Japan)

Specialized field

Inorganic material science, Pulse power engineering, Manufacturing technology, Environmental engineering

Research object

Contribution to the community by next-generation manufacturing and environmental design

Career History

2017 Advisor to the president, Nagaoka University of Technology (Strategic Project Manager)
2017 Senior URA(University Research Administrator), Nagaoka University of Technology
2017 Professor, Nagaoka University of Technology
2010 JSPS Fellow @University of York (UK)

2008 Associate Professor, Nagaoka University of Technology 2005 Assistant Professor, Nagaoka University of Technology 2000 Assistant Professor, Osaka University

Educational Background

2000 Ph.D., Osaka University, Graduate School of Engineering Graduate, Department of Applied Chemistry (Supervisor; Prof. Koichi Niihara)
1997 Master of Eng., Osaka Prefecture University, Graduate School of Engineering, Department of Material Science (Supervisor; Prof. Toshiyuki Matsui, Prof. Kenji Morii)
1995 Bachelor of Eng., Osaka Prefecture University, Graduate School of Engineering, Department of Material Science (Supervisor; Prof. Toshiyuki Matsui, Prof. Yutaka Nakayama)

Affiliation Societies

The Ceramics Society of Japan, Applied Physics Society, Powder Engineering Society, The American Ceramics Society, The Japan Metallurgical Society, The Automobile Manufacturers Association

Selected Awards

2004 Powder Powder Metallurgy Association, Research Advance Award
2007 The Ceramic Society of Japan, Progress Award
2013 The finalists for the
2013 Journal of Materials Science, Robert W. Cahn Best Paper Prize
2016 Global Star Award, Engineering Ceramics Division, American Ceramics Society
2016 The Commendation for Science and Technology by the Minister of Education, Culture, Sports,
Science and Technology (MEXT)
2016 Richard M. Fulrath Award, American Ceramics Society

Selected Recent Publications (total 206 papers)

■Strength improvement and purification of Yb2Si2O7-SiC nanocomposites by surface oxidation treatment, Journal of the American Ceramic Society, Volume 100, Issue 7, 1, Pages 3122-3131 (2017).
■Superconducting water derivatives of Sr2Can-1CunO2+2n-δ (n = 2-4) high-Tc superconductors, Materials Chemistry and Physics, Volume 177, 1, Pages 67-72 (2016).

■Low thermal conductivity Y2Ti2O7 as a candidate material for thermal/environmental barrier coatings, Ceramics International, Volume 42, Issue 9, Pages 11314-11323 (2016).

■Insulating polymer nanocomposites with high-thermal-conduction routes via linear densely packed boron nitride nanosheets, Composites Science and Technology, Volume 129, 6, Pages 205-213 (2016). ■Polymer nanocomposite films with thicknesses (\leq 30 µm) corresponding to the lateral dimension of graphite nanosheets as straightforward thermal conducting pathways, Composites Science and Technology, Volume 127, Pages 106-112 (2016).

■ Fabrication of stacked-cup carbon nanotube/polymer nanocomposite films with linear controlled percolation routes, Materials Chemistry and Physics, Volume 171, Pages 39-44 (2016).

Texture-controlled hybrid materials fabricated using nanosecond technology, Journal of the Ceramic Society of Japan, Volume 124, Issue 3, Pages 197-202 (2016).

■Nanotwin hardening in a cubic chromium oxide thin film, APL Materials, Volume 3, Issue 9, Article number 096105 (2015).

■Graphene oxide as a template for a complex functional oxide, CrystEngComm, Volume 17, Issue 32, Pages 6094-6097 (2015).

■Epitaxial growth of chromium nitride thin films with addition of silicon, Physica Status Solidi (C) Current Topics in Solid State Physics, Volume 12, Issue 6, Pages 545-548 (2015).

Synthesis of molten-metal corrosion resistant yttria-based refractory by hot-pressing and densification, Journal of the European Ceramic Society, Volume 35, Issue 9, Pages 2651-2662 (2015).
Novel Electrothermodynamic Power Generation, Advanced Energy Materials, Volume 5, Issue 13, (2015).

■Nanomechanical and optical properties of yttrium thin films by magnetron sputtering, Optics Letters, Volume 39, Issue 11, Pages 3086-3089 (2014).

■Optimization of exchange bias in Co2FeAl0.5Si 0.5 Heusler alloy layers, Journal of Applied Physics, Volume 115, Issue 17, Article number 17D725 (2014).