

1.

Alloy Composition Screening for Ni-Base Turbine Disc Superalloys Using the Creep Property of Single Crystal

著者名: Mori, Yuhi; Kawagishi, Kyoko; Osada, Toshio; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 51 号: 5 ページ: 2035-2043 発行: MAY 2020

早期公開: FEB 2020

2.

Desulfurization Model Using Solid CaO in Molten Ni-Base Superalloys Containing Al

著者名: Kishimoto, Yuki; Utada, Satoshi; Iguchi, Taketo; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE 卷: 51 号: 1 ページ: 293-305 発行: FEB 2020

早期公開: OCT 2019

3.

Oxidation Resistance Improvement of Ni-Base Single-Crystal Superalloy Melted in a CaO Crucible

著者名: Sugiyama, Takuya; Utada, Satoshi; Yokokawa, Tadaharu; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 50 A 号: 8 ページ: 3903-3911 発行: AUG 2019

4.

DESULFURIZATION MECHANISM OF MOLTEN Ni-BASE SUPERALLOY CONTAINING Al USING CaO ROD

著者名: Kishimoto, Yuki; Iguchi, Taketo; Kono, Takaaki; et al.

会議: EPRI's 9th International Conf on Advances in Materials Technology for Fossil Power Plants and the 2nd International 123HiMAT Conf on High-Temperature Materials 開催地: Elect Power Res Inst, Nagasaki, JAPAN 日付: OCT 21-24, 2019

スポンサー: Elect Power Res Inst; 123HiMAT Comm

JOINT EPRI - 123HiMAT INTERNATIONAL CONFERENCE ON ADVANCES IN HIGH-TEMPERATURE MATERIALS, 2019 ページ: 426-432 発行: 2019

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Directionally-solidified dendrite morphology with eight secondary arms in an FCC ordered phase alloy

著者名: Mori, Yuhi; Harada, Hiroshi; Yokokawa, Tadaharu; et al.

JOURNAL OF CRYSTAL GROWTH 卷: 500 ページ: 15-22 発行: OCT 15 2018

6.

Creep Property and Phase Stability of Sulfur-Doped Ni-Base Single-Crystal Superalloys and Effectiveness of CaO Desulfurization

著者名: Utada, Satoshi; Joh, Yuichiro; Osawa, Makoto; et al.

会議: 3rd European Conference on Superalloys (Eurosuperalloys) 開催地: Univ Oxford, Oxford, ENGLAND 日付: SEP 09-13, 2018

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 49 A 号: 9 特別号: SI ページ: 4029-4041  
発行: SEP 2018

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Creep Property and Phase Stability of Sulfur-Doped Ni-Base Single-Crystal Superalloys and Effectiveness of CaO Desulfurization (vol 49, pg 4029, 2018)

著者名: Utada, Satoshi; Joh, Yuichiro; Osawa, Makoto; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 49 A 号: 9 特別号: SI ページ: 4382-4382  
発行: SEP 2018

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Phase Stability of Nickel-Base Single Crystal Superalloys Containing Iridium Substituting for Ruthenium

著者名: Mori, Yuhi; Yokokawa, Tadaharu; Kobayashi, Toshiharu; et al.

MATERIALS TRANSACTIONS 卷: 57 号: 10 ページ: 1845-1848 発行: 2016

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Effect of Sulfur on Creep Strength of Ni-Base Single-Crystal Superalloy, TMS-1700

著者名: Joh, Yuichiro; Utada, Satoshi; Osawa, Makoto; et al.

MATERIALS TRANSACTIONS 卷: 57 号: 8 ページ: 1305-1308 発行: 2016

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Effect of Ir on the Microstructural Stability of the 6th Generation Ni-Base Single Crystal Superalloy, TMS-238

著者名: Takebe, Yuki; Yokokawa, Tadaharu; Kobayashi, Toshiharu; et al.

JOURNAL OF THE JAPAN INSTITUTE OF METALS AND MATERIALS 卷: 79 号:  
4 ページ: 227-231 発行: 2015

11.

Deformation twinning induced by micropores in TMS-75 superalloy

著者名: Sun, F.; Zhang, S.; Tian, S.; et al.

MATERIALS SCIENCE AND TECHNOLOGY 卷: 31 号: 2 ページ: 237-242 発  
行: JAN 2015

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Room temperature elastic properties of Rh-based alloys studied by surface Brillouin scattering

著者名: Sumanya, C.; Mathe, B. A.; Comins, J. D.; et al.

JOURNAL OF APPLIED PHYSICS 卷: 116 号: 13 記事番号: 133511 発行:  
OCT 7 2014

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Twin-dislocation and twin-twin interactions during cyclic deformation of a nickel-base single crystal TMS-82 superalloy

著者名: Lv, X. Z.; Zhang, J. X.; Harada, H.

INTERNATIONAL JOURNAL OF FATIGUE 卷: 66 ページ: 246-251 発行: SEP  
2014

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Creep deformation of a sixth generation Ni-base single crystal superalloy at 800 degrees C

著者名: Yuan, Y.; Kawagishi, K.; Koizumi, Y.; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS  
PROPERTIES MICROSTRUCTURE AND PROCESSING 卷: 608 ページ: 95-100  
発行: JUL 1 2014

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Significant thinning of deformation twins and its effect on thermomechanical fatigue fracture in nickel base single crystal superalloys

著者名: Fu, B. D.; Zhang, J. X.; Harada, H.

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PROPERTIES MICROSTRUCTURE AND PROCESSING 卷: 605 ページ: 253-259

発行: MAY 27 2014

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Deformation twinning and twinning-related fracture in nickel-base single-crystal superalloys during thermomechanical fatigue cycling

著者名: Sun, Fei; Zhang, Jianxin; Harada, Hiroshi

ACTA MATERIALIA 卷: 67 ページ: 45-57 発行: APR 2014

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Twinning dislocation and twin propagation process in a nickel-base single crystal TMS-82 superalloy

著者名: Lv, Xianzi; Zhang, Jianxin; Harada, Hiroshi

INTERNATIONAL JOURNAL OF MATERIALS RESEARCH 卷: 105 号: 3 ページ: 225-231 発行: MAR 2014

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Twinning Behaviors During Thermomechanical Fatigue Cycling of a Nickel-Base Single-Crystal TMS-82 Superalloy

著者名: Lv, X. Z.; Zhang, J. X.; Harada, H.

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE 卷: 23 号: 3  
ページ: 766-771 発行: MAR 2014

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Large stress concentrations around micropore near a crack-tip induced deformation twinning in Ni-based single crystal superalloy

著者名: Sun, Fei; Zhang, Shu; Tian, Sugui; et al.

JOURNAL OF ALLOYS AND COMPOUNDS 卷: 586 ページ: 479-484 発行: FEB 15 2014

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High-Temperature Ultrasonic Fatigue Testing at 1000 degrees C

著者名: Furuya, Yoshiyuki; Kobayashi, Kazuo; Hayakawa, Masao; et al.

会議: 11th International Fatigue Congress 開催地: Melbourne, AUSTRALIA 日付: MAR

02-07, 2014

スポンサー: RMIT Univ; Australian Calibrat Serv; MTS; Defence Mat Technol Ctr; Rosebank  
Engn Australia

11TH INTERNATIONAL FATIGUE CONGRESS, PTS 1 AND 2 シリーズタイトル:  
Advanced Materials Research 巻: 891-892 ページ: 1413-1418 発行: 2014

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Reversible formation of stacking faults in a nickel-based single crystal TMS-82 superalloy

著者名: Lv, Xianzi; Zhang, Jianxin; Harada, Hiroshi

JOURNAL OF MATERIALS RESEARCH 巻: 28 号: 24 ページ: 3332-3338 発  
行: DEC 28 2013

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The Critical Resolved Shear Stress for Twinning in a Modern Single Crystal Ni-Based  
Superalloy TMS-82

著者名: Sun, Fei; Zhang, Jianxin; Harada, Hiroshi

ADVANCED ENGINEERING MATERIALS 巻: 15 号: 11 ページ: 1034-1039  
発行: NOV 2013

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Interaction between crack and twins in TMS-82 superalloy during thermomechanical fatigue  
process

著者名: Fu, Baidong; Zhang, Jianxin; Harada, H.

PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL 巻: 23 号: 5  
ページ: 508-513 発行: OCT 2013

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gamma precipitation in the primary gamma ' of a new Ni-Co-base disc superalloy

著者名: Yuan, Y.; Gu, Y. F.; Zhong, Z. H.; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS  
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発行: SEP 1 2013

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Optimum microstructure combination for maximizing tensile strength in a polycrystalline  
superalloy with a two-phase structure

著者名: Osada, Toshio; Gu, Yuefeng; Nagashima, Nobuo; et al.

ACTA MATERIALIA 卷: 61 号: 5 ページ: 1820-1829 発行: MAR 2013

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Enhanced strength at intermediate temperatures in a Ni-base disk superalloy with high Co addition

著者名: Yuan, Y.; Gu, Y. F.; Zhong, Z. H.; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS  
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Creep mechanisms of a new Ni-Co-base disc superalloy at an intermediate temperature

著者名: Yuan, Y.; Gu, Y. F.; Zhong, Z. H.; et al.

JOURNAL OF MICROSCOPY 卷: 248 号: 1 ページ: 34-41 発行: OCT 2012

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On the low cycle fatigue behavior of a Ni-base superalloy containing high Co and Ti contents

著者名: Zhong, Zhihong; Gu, Yuefeng; Yuan, Yong; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS  
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発行: AUG 30 2012

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Fatigue crack growth behavior of a newly developed Ni-Co-base superalloy TMW-2 at elevated temperatures

著者名: Zhong, Zhihong; Gu, Yuefeng; Yuan, Yong; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS  
PROPERTIES MICROSTRUCTURE AND PROCESSING 卷: 552 ページ: 464-471  
発行: AUG 30 2012

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Deformation mechanisms in a new disc superalloy at low and intermediate temperatures

著者名: Yuan, Y.; Gu, Y. F.; Osada, T.; et al.

SCRIPTA MATERIALIA 卷: 67 号: 2 ページ: 137-140 発行: JUL 2012

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A new method to strengthen turbine disc superalloys at service temperatures

著者名: Yuan, Y.; Gu, Y. F.; Osada, T.; et al.

SCRIPTA MATERIALIA 卷: 66 号: 11 ページ: 884-889 発行: JUN 2012

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Mechanical properties and fracture modes of an advanced Ni-Co-base disk superalloy at elevated temperatures

著者名: Zhong, Zhihong; Gu, Yuefeng; Yuan, Yong; et al.

MATERIALS CHARACTERIZATION 卷: 67 ページ: 101-111 発行: MAY 2012

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Effect of Solution Temperature on the Microstructure and Mechanical Properties of a Newly Developed Superalloy TMW-4M3

著者名: Zhong, Zhihong; Gu, Yuefeng; Yuan, Yong; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 43 A 号: 3 ページ: 1017-1025 発行: MAR 2012

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High-temperature ultrasonic fatigue testing of single-crystal superalloys

著者名: Furuya, Y.; Kobayashi, K.; Hayakawa, M.; et al.

MATERIALS LETTERS 卷: 69 ページ: 1-3 発行: FEB 15 2012

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Effect of Cr on microstructural evolution of aluminized fourth generation Ni-base single crystal superalloys

著者名: Suzuki, A. S.; Kawagishi, K.; Yokokawa, T.; et al.

SURFACE & COATINGS TECHNOLOGY 卷: 206 号: 11-12 ページ: 2769-2773  
発行: FEB 15 2012

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CONTROLLING THE DEFORMATION MECHANISM IN DISK SUPERALLOYS AT LOW AND INTERMEDIATE TEMPERATURES

著者名: Yuan, Y.; Gu, Y. F.; Zhong, Z. H.; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP

09-13, 2012

スポンサー: TMS

SUPERALLOYS 2012 ページ: 35-42 発行: 2012

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NEW QUANTITATIVE ANALYSIS OF CONTRIBUTING FACTORS TO STRENGTH OF  
DISK SUPERALLOYS

著者名: Osada, Toshio; Gu, Yuefeng; Nagashima, Nobuo; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP

09-13, 2012

スポンサー: TMS

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DEVELOPMENT OF AN OXIDATION-RESISTANT HIGH-STRENGTH SIXTH-  
GENERATION SINGLE-CRYSTAL SUPERALLOY TMS-238

著者名: Kawagishi, Kyoko; Yeh, An-Chou; Yokokawa, Tadaharu; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP

09-13, 2012

スポンサー: TMS

SUPERALLOYS 2012 ページ: 189-195 発行: 2012

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QUANTITATIVE ANALYSIS OF CREEP STRENGTHENING FACTORS IN NI-BASE  
SINGLE CRYSTAL SUPER ALLOYS

著者名: Yokokawa, Tadaharu; Harada, Hiroshi; Kawagishi, Kyoko; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP

09-13, 2012

スポンサー: TMS

SUPERALLOYS 2012 ページ: 285-292 発行: 2012

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PREDICTION OF INITIAL OXIDATION BEHAVIOR OF NI-BASE SINGLE CRYSTAL  
SUPERALLOYS: A NEW OXIDATION MAP AND REGRESSION ANALYSIS

著者名: Suzuki, A. S.; Kawagishi, K.; Yokokawa, T.; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP



09-13, 2012

スポンサー: TMS

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LOW CYCLE FATIGUE BEHAVIOR OF A NEW WROUGHT Ni-Co-BASE DISK  
SUPERALLOY TMW-4M3

著者名: Zhong, Z. H.; Gu, Y. F.; Yuan, Y.; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP  
09-13, 2012

スポンサー: TMS

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AN ADVANCED CAST-AND-WROUGHT SUPERALLOY (TMW-4M3) FOR TURBINE DISK  
APPLICATIONS BEYOND 700 degrees C

著者名: Gu, Y.; Zhong, Z.; Yuan, Y.; et al.

会議: 12th International Symposium on Superalloys 開催地: Seven Springs, PA 日付: SEP  
09-13, 2012

スポンサー: TMS

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A New Oxide Morphology Map: Initial Oxidation Behavior of Ni-Base Single-Crystal  
Superalloys

著者名: Suzuki, Aya S.; Kawagishi, Kyko; Yokokawa, Tadaharu; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY  
AND MATERIALS SCIENCE 巻: 43 A 号: 1 ページ: 155-162 発行: JAN 2012

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Fatigue crack growth characteristics of a new Ni-Co-base superalloy TMW-4M3: effects of  
temperature and load ratio

著者名: Zhong, Zhihong; Gu, Yuefeng; Osada, Toshio; et al.

JOURNAL OF MATERIALS SCIENCE 巻: 46 号: 23 ページ: 7573-7581 発行:  
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Influence of Co content on stacking fault energy in Ni-Co base disk superalloys

著者名: Yuan, Yong; Gu, Yuefeng; Cui, Chuanyong; et al.

JOURNAL OF MATERIALS RESEARCH 卷: 26 号: 22 ページ: 2833-2837 発行: NOV 2011

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Thermodynamic assessment of ternary NiCrAl alloys: from calculations to experiments

著者名: Wu, R. T.; Zhu, R.; Wu, L. T.; et al.

CANADIAN METALLURGICAL QUARTERLY 卷: 50 号: 3 ページ: 291-294 発行: JUL 2011

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Development of NIMS burner rig and cyclic testing of nickel base superalloys

著者名: Matsumoto, K.; Koizumi, Y.; Kawagishi, K.; et al.

CANADIAN METALLURGICAL QUARTERLY 卷: 50 号: 3 ページ: 311-315 発行: JUL 2011

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Enhanced mechanical properties in a new Ni-Co base superalloy by controlling microstructures

著者名: Cui, C. Y.; Gu, Y. F.; Yuan, Y.; et al.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 卷: 528 号: 16-17 ページ: 5465-5469 発行: JUN 25 2011

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Creep mechanisms of U720Li disc superalloy at intermediate temperature

著者名: Yuan, Y.; Gu, Y. F.; Cui, C. Y.; et al.

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Prediction of initial oxidation behavior of Ni-base single crystal superalloys by regression analysis

著者名: Suzuki, A. S.; Kawagishi, K.; Yokokawa, T.; et al.

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Factors contributing to the strength of a polycrystalline nickel-cobalt base superalloy

著者名: Osada, Toshio; Nagashima, Nobuo; Gu, Yuefeng; et al.

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A Novel Strategy for the Design of Advanced Engineering Alloys-Strengthening Turbine Disk  
Superalloys via Twinning Structures

著者名: Yuan, Yong; Gu, Yuefeng; Cui, Chuanyong; et al.

ADVANCED ENGINEERING MATERIALS 卷: 13 号: 4 ページ: 296-300 発行: APR 2011

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Dynamic strain aging in a new Ni-Co base superalloy

著者名: Cui, C. Y.; Gu, Y. F.; Yuan, Y.; et al.

SCRIPTA MATERIALIA 卷: 64 号: 6 ページ: 502-505 発行: MAR 2011

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Dislocation Configurations in Single-Crystal Superalloys during High-Temperature Low-Stress Creep

著者名: Zhang, Jianxin; Harada, Hiroshi

会議: 1st International Congress on Advanced Materials 開催地: Univ Jinan, Jinan, PEOPLES R CHINA 日付: MAY 13-16, 2011

スポンサー: Int Assoc Adv Mat; Univ Jinan; Journal Inorgan & Organometall Polymers & Mat; Adv Mat Letters; Chinese Ceram Soc; Shandong Univ, Minist Educ, Key Lab Liquid Solid Structural Evolut & Proc Mat

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Advanced Materials Research 卷: 306-307 ページ: 433 + 発行: 2011

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A Kinetic Model for Grain Growth in a Polycrystalline Ni-Co Base Superalloy with gamma/gamma Two-Phase

著者名: Osada, Toshio; Gu, Yuefeng; Yuan, Yong; et al.

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著者名: Osada, Toshio; Gu, Yuefeng; Yokokawa, Tadaharu; et al.

JOURNAL OF THE JAPAN INSTITUTE OF METALS 卷: 74 号: 4 ページ: 279-284 発行: APR 2010

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Mechanical Properties of Cast & Wrought Pancakes Using New Ni-Co Base Disk Superalloys

著者名: Yokokawa, Tadaharu; Gu, Yuefeng; Cui, Chuanyong; et al.

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Dislocation motion in the early stages of high-temperature low-stress creep in a single-crystal superalloy with a small lattice misfit

著者名: Zhang, J. X.; Harada, H.; Koizumi, Y.; et al.

JOURNAL OF MATERIALS SCIENCE 卷: 45 号: 2 ページ: 523-532 発行: JAN 2010

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Microstructural Observations on Oxidized Ni-Based Superalloy TMS-75 and PGM-Doped Derivatives

著者名: Pruessner, Karin; Harada, Hiroshi

JOURNAL OF THE ELECTROCHEMICAL SOCIETY 卷: 157 号: 11 ページ: P95-P98 発行: 2010

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VIRTUAL JET ENGINE SYSTEM

著者名: Fukuda, Masafumi; Harada, Hiroshi; Yokokawa, T.; et al.

会議: 6th International Conference on Processing and Manufacturing of Advanced Materials  
開催地: Berlin, GERMANY 日付: AUG 25-29, 2009

スポンサー: Minerals, Met & Mat Soc

THERMEC 2009, PTS 1-4 シリーズタイトル: Materials Science Forum 巻: 638-642

ページ: 2239-2244 部: 1-4 発行: 2010

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Comparison of Mechanical Properties of TMW Alloys, New Generation of Cast-and-Wrought Superalloys for Disk Applications

著者名: Gu, Y. F.; Fukuda, T.; Cui, C.; et al.

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Crack appearance of single-crystal nickel-base superalloys after thermomechanical fatigue failure

著者名: Zhang, J. X.; Harada, H.; Koizumi, Y.; et al.

SCRIPTA MATERIALIA 巻: 61 号: 12 ページ: 1105-1108 発行: DEC 2009

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Creep behavior of new kinds of Ni-Co-base superalloys

著者名: Gu, Y. F.; Cui, C.; Ping, D.; et al.

会議: 11th International Conference of Creep and Fracture of Engineering Materials and Structures 開催地: Bad Berneck, GERMANY 日付: MAY 04-09, 2008

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Development of a precipitation-strengthened Pt-base superalloy

著者名: Voelkl, R.; Wenderoth, M.; Preussner, J.; et al.

会議: 11th International Conference of Creep and Fracture of Engineering Materials and Structures 開催地: Bad Berneck, GERMANY 日付: MAY 04-09, 2008

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Advanced-Database for the Development of Ni-Base Superalloys

著者名: Yuyama, Michinari; Yokokawa, Tadaharu; Koizumi, Yutaka; et al.

JOURNAL OF THE JAPAN INSTITUTE OF METALS 卷: 73 号: 6 ページ: 469-474 発行: JUN 2009

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A new phase-field method for simulating gamma ' precipitation in multicomponent nickel-base superalloys

著者名: Kitashima, T.; Harada, H.

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Evolution of orientation distributions of gamma and gamma ' phases during creep deformation of Ni-base single crystal superalloys

著者名: Inoue, Toru; Tanaka, Katsushi; Adachi, Hiroki; et al.

ACTA MATERIALIA 卷: 57 号: 4 ページ: 1078-1085 発行: FEB 2009

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Oxidation resistant Ru containing Ni base single crystal superalloys

著者名: Kawagishi, K.; Sato, A.; Harada, H.; et al.

MATERIALS SCIENCE AND TECHNOLOGY 卷: 25 号: 2 ページ: 271-275 発行: FEB 2009

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Microstructural Evolution and Mechanical Properties of a Ni-Based Superalloy, TMW-4

著者名: Cui, C. Y.; Gu, Y. F.; Ping, D. H.; et al.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE 卷: 40 A 号: 2 ページ: 282-291 発行: FEB 2009

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On the creep and phase stability of advanced Ni-base single crystal superalloys

著者名: Yeh, An-Chou; Sato, Akihiro; Kobayashi, Toshiharu; et al.

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Thermomechanical fatigue mechanism in a modern single crystal nickel base superalloy  
TMS-82

著者名: Zhang, J. X.; Harada, H.; Ro, Y.; et al.

ACTA MATERIALIA 卷: 56 号: 13 ページ: 2975-2987 発行: AUG 2008

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The retention of thermal barrier coating systems on single-crystal superalloys: Effects of  
substrate composition

著者名: Wu, R. T.; Kawagishi, K.; Harada, H.; et al.

ACTA MATERIALIA 卷: 56 号: 14 ページ: 3622-3629 発行: AUG 2008

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Phase constituents in Ni-Al-Co-Ti quaternary alloys

著者名: Cui, C. Y.; Gu, Y. F.; Ping, D. H.; et al.

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A concept for the EQ coating system for nickel-based superalloys

著者名: Kawagishi, K.; Sato, A.; Harada, H.

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The evolution of eta phase in Ni-Co base superalloys

著者名: Cui, C. Y.; Gu, Y. F.; Ping, D. H.; et al.

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Influence of Nb, Ta and Ti on microstructure and high-temperature strength of precipitation-  
hardened Pt-base alloys

著者名: Wenderoth, M.; Vorberg, S.; Fischer, B.; et al.

会議: 14th International Conference on the Strength of Materials (ICSMA 14) 開催地: Xian  
Jiaotong Univ, Xian, PEOPLES R CHINA 日付: JUN 04-09, 2006

スポンサー: Inst Met Res, CAS

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Analysis of element-content effects on equilibrium segregation at gamma/gamma ' interface  
in Ni-base superalloys using the cluster variation method

著者名: Kitashima, T.; Yokokawa, T.; Yeh, A. C.; et al.

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Morphology evolution of Ir-X-Al (X=Nb or Zr) ternary alloys

著者名: Huang, C.; Yamabe-Mitarai, Y.; Harada, H.

MATERIALS LETTERS 巻: 62 号: 8-9 ページ: 1287-1290 発行: MAR 31 2008

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Phase constituents and compressive yield stress of Ni-Co base alloys

著者名: Cui, C. Y.; Gu, Y. F.; Ping, D. H.; et al.

MATERIALS TRANSACTIONS 巻: 49 号: 3 ページ: 424-427 発行: MAR  
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Phase-field simulation with the CALPHAD method for the microstructure evolution of multi-  
component Ni-base superalloys

著者名: Kitashima, Tomonori; Wang, Jincheng; Harada, Hiroshi

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Effect of alloying elements for designing of advanced co-free ni-base superalloys

著者名: Suzuki, Takanobu; Yokokawa, Tadaharu; Kobayashi, Toshiharu; et al.

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Development of Ni-Co base alloys for high-temperature disk applications



著者名: Gu, Y. F.; Cui, C.; Harada, H.; et al.

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スポンサー: TMS; ASM Int; TMS, High Temperature Alloys Comm

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A 5(th) generation SC superalloy with balanced high temperature properties and processability

著者名: Sato, Akihiro; Harada, Hiroshi; Yeh, An-Chou; et al.

会議: 11th International Symposium on Superalloys 開催地: Champion, PA 日付: SEP 14-18, 2008

スポンサー: TMS; ASM Int; TMS High Temperature Alloys Comm

SUPERALLOYS 2008 ページ: 131-138 発行: 2008

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Assessment on the thermo-mechanical fatigue properties of 98 Ni-base single crystal superalloys

著者名: Sakamoto, M.; Harada, H.; Yokokawa, T.; et al.

会議: 11th International Symposium on Superalloys 開催地: Champion, PA 日付: SEP 14-18, 2008

スポンサー: TMS; ASM Int; TMS High Temperature Alloys Comm

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著者名: Yeh, A. C.; Kawagishi, K.; Harada, H.; et al.

会議: 11th International Symposium on Superalloys 開催地: Champion, PA 日付: SEP 14-18, 2008

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EQ coating: A new concept for SRZ-free coating systems

著者名: Kawagishi, Kyoko; Harada, Hiroshi; Sato, Akihiro; et al.

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著者名: Wu, R. T.; Kawagishi, K.; Harada, H.; et al.

会議: 11th International Symposium on Superalloys 開催地: Champion, PA 日付: SEP 14-18, 2008

スポンサー: TMS; ASM Int; TMS, High Temperature Alloys Comm

SUPERALLOYS 2008 ページ: 769 -+ 発行: 2008

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Phase-field modeling of gamma ' precipitation in multi-component Ni-base superalloys

著者名: Kitashima, Tomonori; Ping, De-Hai; Wang, Jincheng; et al.

会議: 11th International Symposium on Superalloys 開催地: Champion, PA 日付: SEP 14-18, 2008

スポンサー: TMS; ASM Int; TMS, High Temperature Alloys Comm

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著者名: Geng, W. T.; Ping, D. H.; Gu, Y. F.; et al.

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著者名: Kimura, Tomohito; Suzuki, Takanobu; Koizumi, Yutaka; et al.

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著者名: Fukuda, Tadashi; Gu, Yuefeng; Cui, Chuanyong; et al.

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Long time creep prediction of a creep constitutive equation of Ni-base single crystal superalloys

著者名: Izuno, Hitoshi; Koizumi, Yutaka; Yokokawa, Tadaharu; et al.

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Microstructure of a newly developed gamma ' strengthened Co-base superalloy

著者名: Ping, D. H.; Cui, C. Y.; Gu, Y. F.; et al.

会議: Joint 50th International Field Emission Symposium/19th International Vacuum Nanoelectronics Conference 開催地: Guilin, PEOPLES R CHINA 日付: JUL 17-20, 2006  
スポンサー: Minist Sci & Technol China; Natl Nat Sci Fdn China; Sun Yat-sen Univ; IEEE Electron Devices Soc; Amer Vacuum Soc

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Modeling the microstructural evolution of Ni-base superalloys by phase field method combined with CALPHAD and CVM

著者名: Wang, J. C.; Osawa, M.; Yokokawa, T.; et al.

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著者名: Ping, D. H.; Gu, Y. F.; Cui, C. Y.; et al.

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著者名: Wenderoth, M.; Voelkl, R.; Vorberg, S.; et al.

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Oxidation properties for 2nd-5th generation Ni-base single-crystal superalloys at 1023, 1173 and 1373 K

著者名: Kawagishi, Kyoko; Sato, Akihiro; Kobayashi, Toshiharu; et al.

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Effect of aluminide coating on creep properties of Ni-base single crystal superalloys

著者名: Sato, Akihiro; Aoki, Yasuhiro; Arai, Mikiya; et al.

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Atom probe investigation of ruthenium distributions around rhenium, molybdenum and tungsten in a gamma phase of 5th-generation nickel-base single-crystal superalloys

著者名: Kitashima, Tomonori; Harada, Hiroshi; Ping, De-Hai; et al.

MATERIALS TRANSACTIONS 卷: 48 号: 3 ページ: 566-569 発行: MAR 2007

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著者名: Izuno, Hitoshi; Yokokawa, Tadaharu; Harada, Hiroshi

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