

2015

* H. Asoh, Y. Suzuki and S. Ono

Metal-Assisted Chemical Etching of GaAs Using Au Catalyst Deposited on the Backside of a Substrate

Electrochimica Acta, in press

* 小野幸子, 阿相英孝

自己組織化構造を用いた化合物半導体のナノ・マイクロファブリケーション(II) -自己組織化構造のナノテクノロジーへの応用と

InP の微細加工-(トピックス)

金属, **85** (6), 461-467 (2015.6)

* 小野幸子, 阿相英孝

自己組織化構造を用いた化合物半導体のナノ・マイクロファブリケーション(I) -自己組織化構造のナノテクノロジーへの応用と

InP の微細加工-(トピックス)

金属, **85** (5), 369-374 (2015.5)

* Anawati, H. Asoh and S. Ono

Enhanced Uniformity of Apatite Coating on a PEO Film Formed on AZ31 Mg Alloy by an Alkali Pretreatment

Surface and Coatings Technology, **272** (25), 182-189 (2015.6)

DOI: 10.1016/j.surfcoat.2015.04.007

* T. Masuda, H. Asoh, S. Haraguchi and S. Ono

Fabrication and Characterization of Single Phase α -Alumina Membranes with Tunable Pore Diameters

Materials, **8** (3), 1350-1368 (2015.3)

DOI: 10.3390/ma8031350

2014

* 阿相英孝, 小野幸子

アノード酸化ポーラス皮膜のバイオ・医療分野への応用 —アノード酸化による軽金属の表面改質を中心に—(解説)

静電気学会 (J. Inst. Electrostatics Jpn.), **38** (6), 248-253 (2014.11)

* Y. Mori, A. Koshi, J. Liao, H. Asoh and S. Ono

Characteristics and Corrosion Resistance of Plasma Electrolytic Oxidation Coatings on AZ31B Mg Alloy Formed in Phosphate - Silicate Mixture Electrolytes

Corrosion Science, **88** (11), 254-262 (2014.11)

DOI: 10.1016/j.corsci.2014.07.038

* H. Asoh, S. Kotaka and S. Ono

High-Aspect-Ratio Vertically Aligned GaAs Nanowires Fabricated by Anodic Etching

Mater. Res. Express, **1** (10), 045002 (2014.10)

DOI: 10.1088/2053-1591/1/4/045002

* 阿相英孝, 小野幸子 アルマイトの機能化を支える基盤技術(総説)

表面技術 (J. Surf. Finish. Soc. Jpn.), **65** (9), 406-413 (2014.9)

* 増田達也, 阿相英孝, 原口智, 小野幸子

アノード酸化と熱処理により作製したナノポーラス α -アルミニナメンブレン

Nanoporous α -Alumina Membrane Prepared by Anodizing and Heat Treatment

Electrochemistry, **82** (6), 448-455 (2014.6)

DOI: 10.5796/electrochemistry.82.448

* S. Ono, M. Nakamura, T. Masuda and H. Asoh

Fabrication of Nanoporous Crystalline Alumina Membrane by Anodization of Aluminum

Materials Science Forum Vols., **783-786**, 1470-1475 (2014.5)

DOI: 10.4028/www.scientific.net/MSF.783-786.1470

* 小野幸子, 阿相英孝

アノード酸化ポーラスアルミナ皮膜を用いたシリコンのナノ構造制御(解説)

Nanostructuring of Silicon Using Anodic Porous Alumina Film

表面技術 (J. Surf. Finish. Soc. Jpn.), **65** (1), 18-25 (2014.1)

DOI: 10.4139/sfj.65.18

2013

* S. Ono, S. Kotaka and H. Asoh

Fabrication and Structure Modulation of High-Aspect-Ratio Porous GaAs through Anisotropic Chemical Etching, Anodic Etching, and Anodic Oxidation

Electrochimica Acta, **110**, 393-401 (2013.11)

DOI: 10.1016/j.electacta.2013.06.025

* H. Asoh, K. Fujihara and S. Ono

Sub-100-nm Ordered Silicon Hole Arrays by Metal-Assisted Chemical Etching

Nanoscale Research Letters, **8**, 410/1-410/8 (2013.10)

DOI: 10.1186/1556-276X-8-410

* Y. Sato, H. Asoh and S. Ono

Effects of Electrolyte Species and their Combination on Film Structures and

Dielectric Properties of Crystalline Anodic Alumina Films Formed by Two-Step Anodization

Materials Transactions, **54** (10), 1993-1999 (2013.10)

DOI: 10.2320/matertrans.L-M2013826

* F. Rashidi, T. Masuda, H. Asoh and S. Ono

Metallographic Effects of Pure Aluminum on Properties of Nanoporous Anodic Alumina (NPAA)

Surface and Interface Analysis, **45** (10), 1490-1496 (2013.10)

DOI: 10.1002/sia.5285

* S. Ono and H. Asoh

Effect of Crystal Orientation and Surface Topography of Aluminum Substrate on Pore Nucleation of Anodic Porous Alumina

Proceedings of the third international conference and exposition "Aluminium-21/Coating" P.10 (2013.6)

DOI: なし

* K. Tateishi, H. Ogino, A. Waki, T. Ohishi, M. Murakami, H. Asoh and S. Ono

Anodization Behavior of Aluminum in Ionic Liquids with a Small Amount of Water

Electrochemistry, **81** (6), 440-447 (2013.6)

DOI: lack;mso-themecolor:text1">10.5796/electrochemistry.81.440

* Anawati, H. Tanigawa, H. Asoh, T. Ohno, M. Kubota and S. Ono

Electrochemical Corrosion and Bioactivity of Titanium-Hydroxyapatite Composites

Prepared by Spark Plasma Sintering

Corrosion Science, **70** (5), 212-220 (2013.5)

2012

* 阿相英孝, 小野幸子

電着法によるチタン基板上へのアパタイトコーティング(解説)

材料の科学と工学, **49** (6), 246-249 (2012.12)

* 佐藤芳輝, 阿相英孝, 小野幸子

二段階電解で生成した結晶性アノード酸化アルミナ皮膜の構造と誘電特性に及ぼす電解液種とその組み合わせの影響

Effects of electrolyte species and their combination on film structures and dielectric properties of crystalline anodic alumina films formed by two-step anodization

軽金属(J. Jpn. Inst. Light Metals), **62** (10), 357-362 (2012.10)

* H. Asoh, K. Fujihara and S. Ono

Triangle Pore Arrays Fabricated on Si (111) Substrate by Sphere Lithography

Combined with Metal-Assisted Chemical Etching and Anisotropic Chemical Etching
Nanoscale Research Letters, 7 (11671), 406 (2012.7)

* H. Asoh, J. Iwata and S. Ono

Hexagonal Geometric Patterns Formed by Radial Pore Growth of InP Based on
Voronoi Tessellation

Nanotechnology, 23 (21), 215304/1-215304/8 (2012.5)

* Y. Yasukawa, H. Asoh and S. Ono

Morphological Control of Periodic GaAs Hole Arrays by Simple Au-Mediated Wet
Etching

Journal of The Electrochemical Society, 159 (5), D328-D332 (2012.5)

* S. Ono, S. Kotaka, J. Iwata, K. Fujihara and H. Asoh

High-Aspect-Ratio Astructures of Pore and Pillar Arrays of Semiconductors Fabricated
by Wet Etching Using Sphere Photolithography

Proceedings of porous Semiconductors-Science and Technology 138-139 (PSST-
2012)

* T. Ruff, R. Hahn, M. S. Killian, H. Asoh, S. Ono and P. Schmuki

Visible Light Photo Response From N-doped Anodic Niobium Oxide After Annealing
in Ammonia Atmosphere

Electrochimica Acta, 62 (2), 402-407 (2012.2)

2011

* H. Asoh, K. Uchibori and S. Ono

Anisotropic Chemical Etching of Silicon through Anodic Oxide Films Formed on
Silicon Coated with Microspheres

Semiconductor Science and Technology, 102001/1-102001/4 (2011.10)

* 藤田昌弘, 田中洋臣, 松村 仁, 山本友晴, 阿相英孝, 小野幸子

アルミニウム合金におけるアノード酸化皮膜の構造に対する高周波スイッチング電

解の効果(解説)

Effect of High-Frequency Switching Electrolysis on Structure of Anodic Oxide Film Formed on Aluminum Alloy

表面技術(J. Surf. Finish. Soc. Jpn.), **62** (7), 346-350 (2011.7)

* H. Asoh, S. Kotaka and S. Ono

High-Aspect-Ratio GaAs Pores and Pillars with Triangular Cross Section
Electrochemistry Communications, **13** (5), 458-461 (2011.5)

* 小野幸子

マグネシウムの表面現象と酸化皮膜の成長(総説)

Surface Phenomena and Oxide Film Growth on Magnesium

表面技術(J. Surf. Finish. Soc. Jpn.), **62** (4) 198-203 (2011.4)

* 小野幸子, 鈴木弥生, 阿相英孝

Mg-Li-Y 合金の耐食性に対するアノード酸化処理条件の影響

Effect of Anodizing Condition on Corrosion Resistance of Mg-Li-Y Alloy

軽金属(J. Jpn. Inst. Light Metals), **61** (2), 60-65 (2011.2)

* 阿相英孝, 小野幸子

自己組織化材料を利用したナノ・マイクロファブリケーション ~ナチュラルリソグラフィー~(解説)

Nano- and Microfabrication Using Self-Organized Materials ~Natural Lithography

~

表面技術(J. Surf. Finish. Soc. Jpn.), **62** (2), 92-97 (2011.2)

2010

* 阿相英孝, 松岡早織, 佐山博信, 小野幸子

リン酸ナトリウム電解液中での火花放電を伴う AZ31B マグネシウム合金のアノード酸化

Anodizing Under Sparking of AZ31B Magnesium Alloy in Na₃PO₄ Electrolyte

軽金属(J. Jpn. Inst. Light Metals), **60** (11), 608-614 (2010.11)

* 山本友晴, 田中洋臣, 藤田昌弘, 阿相英孝, 小野幸子

AC8A アルミニウム合金におけるアノード酸化皮膜の皮膜厚さ均一化に対する高周波スイッチング電解の効果

Effect of High-Frequency Switching Electrolysis on Film Thickness Uniformity of Anodic Oxide Film Formed on AC8A Aluminum Alloy

軽金属(J. Jpn. Inst. Light Metals), **60** (11), 602-607 (2010.11)

* Y. Yasukawa, H. Asoh and S. Ono

Periodic GaAs Convex and Hole Arrays Produced by Metal-Assisted Chemical Etching

Japanese Journal of Applied Physics, **49**, 116502/1-116502/4 (2010)

* Y. Sato, H. Asoh and S. Ono

Effect of Electrolyte Species on Crystallinity and Dielectric Properties of Anodic Oxide Films Formed on Aluminum

The 12th International Conference on Aluminium Alloys, Proceedings of the 12th International Conference on Aluminium Alloys, 2125-2129 (2010.9)

* S. Ono, M. Okura, H. Asoh, H. Tanaka and T. Yamamoto

Sealing Mechanism of Anodic Porous Oxide Films Formed on Aluminum in Lithium Hydroxide Solution

The 12th International Conference on Aluminium Alloys, Proceedings of the 12th International Conference on Aluminium Alloys, 1463-1468 (2010.9)

* 小野幸子, 阿相英孝

チタン多孔体へのアパタイト電着と生体活性化(解説)

Electrodeposition of Hydroxyapatite and Bioactivation of Porous Titanium

チタン, **58** (2), 15-20 (2010.4)

* 小野幸子

金属・半導体に生成するアノード酸化皮膜の微細構造制御と機能化(解説)

材料の科学と工学, **47** (2), 2-7 (2010.4)

* H. Asoh, T. Yokoyama and S. Ono

Formation of Periodic Microbump Arrays by Metal-Assisted Photodissolution of InP

Japanese Journal of Applied Physics, **49**, 046505/1-046505/5 (2010.4)

* T. Yokoyama, H. Asoh and S. Ono

Site-Selective Anodic Etching of InP Substrate Using Self-Organized Spheres as Mask

Physica Status Solidi (A) Applications and Materials, **207** (4), 943-946 (2010.4)

* S. Bauer, J. Brunner, H. Jha, Y. Yasukawa, H. Asoh, S. Ono, H. Bohm, J. P. Spatz and P. Schmuki

Ordered Nanopore Boring in Silicon: Metal-Assisted Etching Using a Self-Aligned Block Copolymer Au Nanoparticle Template and Gravity Accelerated Etching
Electrochemistry Communications, **12** (4), 565-569 (2010.4)

* S. Ono, K. Uchibori and H. Asoh

Control of Nano/Microstructure and Pit Initiation Sites on Aluminium Surface by Use of Self-Assembled Spheres

Surface and Interface Analysis, **42** (4), 264-268 (2010.4)

* 阿相英孝

その他金属のアノード酸化(スズ, 亜鉛など)(解説)

表面技術(J. Surf. Finish. Soc. Jpn.), **61** (2), 165-166 (2010.2)

* 小野幸子

マグネシウムのアノード酸化(解説)

表面技術(J. Surf. Finish. Soc. Jpn.), **61** (2), 163-165 (2010.2)

2009

* 小野幸子

アルミニウムアノード酸化皮膜の構造と成長機構および真空中でのガス放出特性
(解説)

Structure and Growth Mechanism of Anodic Oxide Films Formed on Aluminum and their Gas Emission Property in Vacuum

真空(Journal of the ofthe Vacuum Society of Japan), **52** (12), 637-644 (2009.12)

* M. Hori, H. Asoh and S. Ono

Effect of Nitrogen Incorporation on Dielectric Properties of Anodic Films Formed on Niobium in Various Electrolytes

8th International Symposium on Advanced Technology (ISAT-8th), p.72-74
(2009.11)

* A. Komatsu, H. Asoh and S. Ono

Biocompatibility of Anodic Porous Titania Films Coated with Hydroxyapatite by Alternative Immersion Method

8th International Symposium on Advanced Technology (ISAT-8th), p.59-61
(2009.11)

* S. Ono and H. Asoh

Nano/Micro-Patterning of Silicon by Site-Selective Chemical Etching through Colloidal Crystal Templating

8th International Symposium on Advanced Technology (ISAT-8th), p.13-16
(2009.11)

* H. Asoh, F. Arai and S. Ono

Effect of Noble Metal Catalyst Species on Morphology of Macroporous Silicon Formed by Metal-Assisted Chemical Etching
Electrochimica Acta, **54** (22), 5142-5148 (2009.9)

* Y. Yasukawa, H. Asoh and S. Ono

Site-Selective Metal Patterning/Metal-Assisted Chemical Etching on GaAs Substrate through Colloidal Crystal Templating

Journal of the Electrochemical Society, **156** (10), H777-H781, (2009.8)

* H. Asoh, K. Uchibori and S. Ono

Structural Features of Anodic Oxide Films Formed on Aluminum Substrate Coated with Self-Assembled Microspheres

Corrosion Science, **51** (7), 1513-1518 (2009.7)

* S. Ono, K. Kuramochi and H. Asoh

Effects of Electrolyte pH and Temperature on Dielectric Properties of Anodic Oxide Films Formed on Niobium

Corrosion Science, **51** (7), 1496-1500 (2009.7)

* A. Kodama, S. Bauer, A. Komatsu, H. Asoh, S. Ono and P. Schmuki
BioActivation of Titanium Surfaces Using Coatings of TiO₂ Nanotubes Rapidly Pre-
Loaded with Synthetic Hydroxyapatite

Acta Biomaterialia, **5** (6), 2322-2330 (2009.7)

* S. Ono, F. Arai and H. Asoh
Micro-Patterning of Semiconductors by Metal-Assisted Chemical Etching through
Self-Assembled Colloidal Spheres
ECS Transactions, **19** (3), 393-402 (2009.5)

* 小林勇太, 阿相英孝, 小野幸子
アノード酸化により作製したポーラス酸化亜鉛の構造と光触媒特性
Structure and Photocatalytic Property of Zinc Oxide Film Prepared by Anodizing
表面技術(J. Surf. Finish. Soc. Jpn.), **60** (3), 202-207 (2009.3)

* 西村和子, 板谷浩丘, 長原和宏, 高橋英明, 阿相英孝, 小野幸子
ニオブアノード酸化皮膜の誘電特性に対する有機酸電解液へのアンモニア添加の
効果
Effect of Ammonium Hydroxide Addition to Organic Acid Electrolytes for
Capacitance Increase of Anodic Oxide Films Formed on Niobium
表面技術(J. Surf. Finish. Soc. Jpn.), **60** (3), 195-201 (2009.3)

* 阿相英孝, 川目達也, 柴田稚子, 小野幸子
アルカリ処理を施したチタン基板への水酸アパタイトの電解析出
Electrodeposition of Hydroxyapatite on Alkali Treated Titanium
無機マテリアル学会会誌(J. Soc. Inorg. Mater. Japan), **16** (338), 28-36 (2009.1)

2008

* 小野幸子, 児玉アニタ, 阿相英孝
球状チタン焼結体で構成された多孔体電極への水酸アパタイトの電着挙動
Electrodeposition Behavior of Hydroxyapatite on Porous Electrode Composed of
Sintered Titanium Spheres
軽金属(J. Jpn. Inst. Light Metals), **58** (11), 593-598 (2008.11)

* S. Ono, Y. Kobayashi, R. Kobayashi and H. Asoh
Fabrication of Self-Organized Nanoporous Oxide Semiconductors by Anodization
ECS Transactions, **16** (3), 353-358 (2008.10)

* Y. Yasukawa, H. Asoh and S. Ono
GaAs Microarrays by Noble-Metal Assisted Chemical Etching
ECS Transactions, **16** (3), 253-258 (2008.10)

* S. Sakamoto, L. Philippe, M. Bechelany, J. Michler, H. Asoh and S. Ono
Ordered Hexagonal Array of Au Nanodots on Si Substrate Based on Colloidal Crystal
Templating
Nanotechnology, **19**, 405304/1-405304/6 (2008.10)

* 朝比奈建史, 石原秀憲, 阿相英孝, 小野幸子
アルミニウムアノード酸化ポーラス皮膜の孔発生過程に及ぼす素地結晶方位および表面トポグラフィの影響
Influence of Crystal Orientation and Surface Topography of Aluminum Substrate on
Pore Nucleation of Anodic Porous Alumina
軽金属(J. Jpn. Inst. Light Metals), **58** (8), 375-380 (2008.8)

* S. Ono, A. Kiyotake and H. Asoh
Effect of Nanostructured Surfaces of Light Metals on Hydroxyapatite Coating
ECS Transactions, **11** (15), 1-8 (2008.6)

* H. Asoh, F. Arai, K. Uchibori and S. Ono
Pt-Pd-Embedded Silicon Micowell Arrays
Applied Physics Express, **1** (6), 067003/1-067003/3 (2008.5)

* S. Ono, Y. Kobayashi and H. Asoh
Self-Organized and High Aspect Ratio Nanoporous Zinc Oxide Prepared by
Anodization
ECS Transactions, **13** (3), 183-189 (2008.5)

* Y. Yasukawa, H. Asoh and S. Ono
Site-Selective Metal Patterning/Metal-Assisted Chemical Etching on GaAs Substrate through Colloidal Crystal Templating
ECS Transactions, **13** (3), 83-92 (2008.5)

* Y. Yasukawa, H. Asoh and S. Ono
Site-Selective Chemical Etching of GaAs through a Combination of Self-Organized Spheres and Silver Particles as Etching Catalyst
Electrochemistry Communications, **10** (5), 757-760 (2008.5)

* 新井房雄, 阿相英孝, 小野幸子
無電解めっきによる貴金属微粒子触媒層の付与と湿式エッティングによるシリコンのマイクロパターニング
Electroless Deposition of Noble Metal Nano Particles as Catalyst and Subsequent Micropatterning of Silicon Substrate by Wet Chemical Etching
Electrochemistry, **76** (3), 187-190 (2008.3)

2007

* H. Asoh, S. Sakamoto and S. Ono
Metal Patterning on Silicon Surface by Site-Selective Electroless Deposition Through Colloidal Crystal Templating
Journal of Colloid and Interface Science, **316** (2), 547-552 (2007)

* 奥平浩平, 阿相英孝, 小野幸子
結晶性アノード酸化アルミナ皮膜の誘電特性に対する電解液種の影響
Effect of Electrolyte Species on Dielectric Property of Crystalline Anodic Alumina Film
Electrochemistry, **75** (11), 873-878 (2007)

* H. Asoh, K. Nakamura and S. Ono
Control of Pit Initiation Sites on Aluminum Foil Using Colloidal Crystals as Mask

Electrochimica Acta, **53** (1), 83-86 (2007)

* 小野幸子, 阿相英孝

タンタル代替ニオブコンデンサ誘電体皮膜の成長挙動と特性(解説)

工業材料, **55** (8), 62-65 (2007)

* 阿相英孝, 小野幸子

スパッタアルミニウムのアノード酸化を利用したシリコンナノ構造体の作製(解説)

Fabrication of Si Nanostructures using Anodization of Aluminum Film Sputtered on Si

機能材料, **27** (7), 30-36 (2007)

* 小野幸子, 阿相英孝

マグネシウム表面のナノ構造制御と高機能化(解説)

Nano-structure Control of Magnesium Surfaces and their Functionalization

機能材料, **27** (7), 13-20 (2007)

* 小野幸子

アノード酸化におけるバルブメタルの絶縁破壊挙動と酸化皮膜の構造(解説)

Dielectric Breakdown Behavior and Oxide Film Structure Associated with Anodizing of Valve Metals

表面技術(J. Surf. Finish. Soc. Jpn.), **58** (6) 342-346 (2007)

* H. Asoh, F. Arai and S. Ono

Micro Patterning of Silicon by Chemical Etching Using Patterned Noble Materials as Catalyst

ESC Transactions, **6** (2), 431-437 (2007)

* H. Asoh, F. Arai and S. Ono

Site-Selective Chemical Etching of Silicon Using Patterned Silver Catalyst

Electrochemistry Communications, **9** (4), 535-539 (2007)

* S. Ono, A. Oide and H. Asoh

Nanopatterning of Silicon with Use of Self-Organized Porous Alumina and Colloidal

Crystals as Mask

Electrochimica Acta, **52** (8), 2898-2904 (2007)

2006

* H. Asoh, A. Oide and S. Ono

Formation of Microstructured Silicon Surfaces by Electrochemical Etching Using Colloidal Crystal as Mask

Electrochemistry Communications, **8** (12), 1817-1820 (2006)

* K. Nakamura, H. Asoh and S. Ono

Etching Behavior of Aluminum Capacitor Foils Through Anodic Porous Alumina
The 16th IKETANI Conference 2006, Corrosion, Proceedings of the 16th IKETANI Conference, Electrochemistry and Thermodynamics on Materials Proceeding for Sustainable Production: Masuko Symposium, **2006**, 981-984 (2006)

* S. Ono, A. Oide and H. Asoh

Nanofabrication of Silicon Substrate Utilizing Self-Organized Anodic Porous Alumina

The 16th IKETANI Conference 2006, Corrosion, Proceedings of the 16th IKETANI Conference, Electrochemistry and Thermodynamics on Materials Proceeding for Sustainable Production: Masuko Symposium, **2006**, 201-208 (2006)

* S. Ono

Preparation of Highly Ordered Nano-Porous Materials and Their Application
The 2nd Kyoto-Erlangen Symposium on Advanced Energy and Materials, Proceedings of the 2nd Kyoto-Erlangen Symposium, **2006**, 198-205 (2006)

* S. Ono, K. Nakamura and H. Asoh

DC Etching of Aluminum Foils Using Self-Organized Materials as a Direct Mask
ATB Metallurgie, **45** (1-4), 480-483 (2006)

* S. Ono, A. Oide and H. Asoh

Application of Self-Organized Anodic Alumina and Colloidal Crystals to
Nanofabrication

ATB Metallurgie, **45** (1-4), 120-125 (2006)

* 生出章彦, 阿相英孝, 小野幸子

局所アノード酸化と化学エッチングによるシリコンナノ規則構造の作製
Fabrication of Ordered Nanostructure on Silicon Substrate Using Localized
Anodization and Chemical Etching
Electrochemistry, **74** (5), 379-384 (2006)

* S. Ono, T. Nagasaka, H. Shimazaki and H. Asoh,

Fabrication of Porous Niobia by Anodizing of Niobium
in Pits and Pores III: Formation, Properties, and Significance for Advanced
Materials/2004,
P. Schmuki, D. J. Lockwood, Y. H. Ogata, M. Seo, H. S. Isaacs, Editors,
PV 2004-19, p. 123-133, Journal of the Electrochemical Society Proceedings Series,
Pennington, NJ (2006).

* H. Asoh and S. Ono

Fabrication of Inverse Opal Structure of Silica by Si Anodization
in Pits and Pores III: Formation, Properties, and Significance for Advanced
Materials/2004,
P. Schmuki, D. J. Lockwood, Y. H. Ogata, M. Seo, H. S. Isaacs, Editors,
PV 2004-19, p. 117-122, Journal of the Electrochemical Society Proceedings Series,
Pennington, NJ (2006).

* S. Ono, N. Kato, M. Saito and H. Asoh

Self-Ordering of Anodic Porous Alumina Induced by High Electric Field Strength
in Pits and Pores III: Formation, Properties, and Significance for Advanced
Materials/2004,
P. Schmuki, D. J. Lockwood, Y. H. Ogata, M. Seo, H. S. Isaacs, Editors,

PV 2004-19, p. 34-42, Journal of the Electrochemical Society Proceedings Series, Pennington, NJ (2006).

2005

* H. Asoh, A. Oide and S. Ono

Fabrication of Self-Ordered Nanohole Arrays on Si by Localized Anodization and Subsequent Chemical Etching

Applied Surface Science, **252** (5), 1668-1673, (2005)

* S. Ono, M. Saito and H. Asoh

Self-Ordering of Anodic Porous Alumina Formed in Organic Acid Electrolytes

Electrochimica Acta, **51** (5), 827-833, (2005)

* H. Asoh and S. Ono

Design of Two-Dimensional/Three-Dimensional Composite Porous Alumina by Colloidal crystal Templating and Subsequent Anodization

Applied Physics Letters, **87** (10), 103102/1-103102/3, (2005)

* S. Ono, C. Wada and H. Asoh

Structure and Property of Anodic Barrier Films Formed on Aluminum in Low Voltage Range

Electrochimica Acta, **50** (25-26), 5103-5110, (2005)

* H. Asoh, K. Sasaki and S. Ono

Electrochemical Etching of Silicon Through Anodic Porous Alumina

Electrochemistry Communications, **7** (9), 953-956, (2005)

* 小野幸子, 阿相英孝, 長本英俊, 増子昇

耐環境付与を目的とするマグネシウム合金表面酸化皮膜の構造制御因子の解明

－最終年度報告－

Clarification of Factors Controlling the Structure of Magnesium and Magnesium

Alloys for the Purpose of Surface Protection in the Environment

工学院大学総合研究所年報, 第 12 号 2004 年度 (2005.9) p.29-42

* A. Oide, H. Asoh and S. Ono

Natural Lithography of Si Surfaces Using Localized Anodization and Subsequent Chemical Etching

Electrochemical and Solid-State Letters, **8** (7), G172-G175 (2005)

* S. Ono and H. Asoh

Natural Lithography of Silicon Substrate Using Self-ordered Anodic Alumina and Nanospheres

in State-of-the-Art Program on Compound Semiconductors XLII -and- Processes at the Compound- Semiconductor/Solution Interface/2005,

P. C. Chang, K. Shiojima, R. E. Kopf, X. Chen, D. Noel Buckley, A. Etcheberry, and B. Marsan, Editors,

PV 2005-04, p. 177-187, Journal of the Electrochemical Society Proceedings Series, Pennington, NJ (2005).

* 和田知恵子, 阿相英孝, 小野幸子

低電圧領域で作製したアルミニウムアノード酸化バリヤー型皮膜の膜厚と構造に対する電流密度の影響

Effect of Current Density on the Film Thickness and Structure of Anodic Barrier Films Formed on Aluminum at Low Voltage Region

Electrochemistry, **73** (2), 145-149 (2005)

2004

* S. Ono, M. Baba, M. Shimoyama and H. Asoh

Structure and Properties of Anodic Oxide Films Formed on Niobium in Surface Oxide Films/2003,

V. Birss, L. Burke, A. R. Hillman, and R. S. Lillard, Editors,

PV 2003-25, p.133-142, Journal of the Electrochemical Society Proceedings Series,

Pennington, NJ (2004)

* 阿相英孝, 酒井郁洋, 生出章彦, 小野幸子
有機溶媒ー水系電解液中におけるマグネシウムのアノード酸化挙動
Anodizing Behavior of Magnesium in Electrolyte Containing Organic Solvent and Water
軽金属(J. Jpn. Inst. Light Metals), **54** (12), 567-572 (2004)

* 倉持健, 阿相英孝, 望月隆, 小野幸子
ニオブアノード酸化皮膜の誘電特性に及ぼす電解液 pH の影響(速報)
Effect of Electrolyte pH on Dielectric Properties of Anodic Oxide Films Formed on Niobium
表面技術(J. Surf. Finish. Soc. Jpn.), **55** (12), 968-969 (2004)

* 阿相英孝, 大館広和, 小野幸子
ニオブアノード酸化皮膜の結晶化挙動と誘電特性の評価
Crystallization and Dielectric Properties of Anodic Oxide Films Formed on Niobium
表面技術(J. Surf. Finish. Soc. Jpn.), **55** (12) 952-959 (2004)

* 斎藤真希子, 武藤洋光, 阿相英孝, 小野幸子
マロン酸を用いたアノード酸化ポーラスアルミナの自己規則化機構の検討
Study on Self-Ordering Mechanism of Anodic Porous Alumina Formed in Malonic Acid Solution
The journal of the Surface Finishing Society of Japan, **55** (12), 937-942 (2004)

* 小野幸子, 三宅めぐみ, 阿相英孝
マグネシウムアノード酸化皮膜の構造と不動態性に対する生成電圧と電解質イオン濃度の影響
Effects of Formation Voltage and Electrolyte Ions Concentration on the Structure and Passivity of Anodic Films on Magnesium
軽金属(J. Jpn. Inst. Light Metals), **54** (11), 544-550 (2004)

* 小野幸子

複合アノード酸化処理したアルミニウムの真空中でのガス放出特性とその制御(依頼講演)

Gas Emission Control of Aluminum Alloy Surface by Means of Composite Anodic Film Formation

金属のアノード酸化皮膜の機能化部会 第 21 回コンファレンステキスト, 40-44
(2004)

* H. Asoh, A. Uehara and S. Ono

Fabrication of Porous Silica with Three-Dimensional Periodicity by Si Anodization
Japanese Journal of Applied Physics, **43** (9AB), L1159-L1161 (2004)

* H. Asoh, S. Ono, T. Hirose, I. Takatori and H. Masuda

Detailed Observation of Cell Junction in Anodic Porous Alumina with Square Cells
Japanese Journal of Applied Physics, **43** (9A), 6342-6346 (2004)

* H. Shiraki, Y. Kimura, H. Ishii, S. Ono, K. Itaya and M. Niwano

Investigation of Formation Processes of an Anodic Porous Alumina Film on a Silicon Substrate

Applied Surface Science, **237** (1-4), 369-373, (2004)

* H. Asoh, A. Uehara and S. Ono

Nanopatterning of Si Substrate Using Nanospheres as a Mask for Localized Anodization

Japanese Journal of Applied Physics, **43** (8A), 5667-5668 (2004)

* S. Ono, M. Saito, M. Ishiguro and H. Asoh

Controlling Factor of Self-Ordering of Anodic Porous Alumina

Journal of the Electrochemical Society, **151** (8), B473-B478 (2004)

* S. Ono, M. Saito and H. Asoh

Self-Ordering of Anodic Porous Alumina Induced by Local Current Concentration: Burning

Electrochim. Solid-State Letter, **7** (7), B21-B24 (2004)

* 阿相英孝, 小野幸子, 広瀬智一, 高鳥郁央, 益田秀樹

角型セル構造を持つアノード酸化ポーラスアルミナ皮膜の局所構造観察

Detailed Observation of Anodic Porous Alumina with Square Cells

工学院大学研究報告書, No. 96 (2004/4) p.29-34

* J.T.B. Gundersen, A. Aytac, S. Ono, J.H. Nordlien and K. Nisancioglu

Effect of Trace Elements on Electrochemical Properties and Corrosion of Aluminium Alloy AA3102

Corrosion Science, **46** (2), 265-283 (2004)

* 小野幸子

マグネシウムの陽極酸化(解説)

Anodizing of Magnesium

アルトピア, **34** (2), 23-31 (2004)

2003

* T. H. Okabe, N. Sato, Y. Mitsuda and S. Ono

Production of Tantalum Powder by Magnesiothermic Reduction of Feed Preform

Materials Transactions, **44** (12), 2646-2653 (2003)

* 小野幸子, 阿相英孝, 長本英俊, 増子昇

耐環境付与を目的とするマグネシウム合金表面酸化皮膜の構造制御因子の解明

Clarification of Factors Controlling the Structure of Magnesium and Magnesium

Alloys for the Purpose of Surface Protection in the Environment

工学院大学総合研究所年報, No. **11** (2003) p.119-131

* H. Asoh and S. Ono

Design of Three-Dimensional Porous Structure of Anodic Alumina Using Heat Treatment and Acid Dissolution

ATB Metallurgie, **43** (1-2), 319-322, (2003)

* S. Ono, M. Saito and H. Asoh

Self-Ordering Behavior of Anodic Porous Films Formed on Aluminum
ATB Metallurgie, **43** (1-2), 41-44, (2003)

* Y. Kimura, H. Shiraki, H. Ishii, S. Ono, K. Itaya and M. Niwano
In-situ Observation of Formation Processes of Anodic Porous Alumina on a Si
Substrate Using Infrared Absorption Spectroscopy
Materials Research Society Symposium Proceedings, Continuous Nanophase and
Nanostructured Materials, 409-413 (2003)

* S. Ono, Y. Suzuki and H. Asoh
Surface Oxidation Behavior of Mg-Li-Y Ultra Light Alloys
Proceedings of 13th Asian-Pacific Corrosion Control Conference (APCCC13), CD-
ROM, (2003), Japan Society of Corrosion Engineering

* S. Ono, C. Wada and H. Asoh
Evaluation of the Structure of Ultra Thin Anodic Films Formed on Aluminum at Low
Voltages
Proceedings of 13th Asian-Pacific Corrosion Control Conference (APCCC13) CD-
ROM, (2003), Japan Society of Corrosion Engineering

* H. Asoh, A. Oide and S. Ono
Anodizing Behavior of Aluminum Sputtered on Semiconductor Substrate
Proceedings of 13th Asian-Pacific Corrosion Control Conference (APCCC13) CD-
ROM, (2003), Japan Society of Corrosion Engineering

* H. Asoh, M. Matsuo, M. Yoshihama and S. Ono
Transfer of Nanoporous Pattern of Anodic Porous Alumina into Si Substrate
Applied Physics Letters, **83** (21), 4408-4410 (2003)

* Y. W. Keuong, J. H. Nordlien, S. Ono and K. Nisancioglu
Electrochemical Activation of Aluminum by Trace Element Lead
Journal of the Electrochemical Society, **150** (4), B547-B554 (2003)

* H. Asoh, S. Ono, T. Hirose, M. Nakao and H. Masuda

Growth of Anodic Porous Alumina with Square Cells
Electrochimica Acta, **48**, 3171-3174 (2003)

* 小野幸子
ニオブアノード酸化皮膜の成長挙動と微細構造制御(解説)
Formation Behavior and Control Factors of Anodic Films on Niobium
表面技術(J. Surf. Finish. Soc. Jpn.), **54** (7) 447-451 (2003)

* S. Ono, Y. Suzuki, H. Asoh, N. Hanzawa and M. Hyakutake
Microstructure of Anodic Films Grown on Magnesium-Lithium-Yttrium Ultra Light Alloy
Materials Science Forum, **426-432**, 581-586 (2003)

* S. Ono and N. Masuko
Evaluation of Pore Diameter of Anodic Porous Films Formed on Aluminum Surface and Coatings Technology, 169-170, 139-142 (2003)
Proceedings of Frontiers of Surface Engineering 2001, Nagoya, Japan, ELSEVIER

* S. Ono, H. Kijima and N. Masuko
Microstructure and Voltage-Current Characteristics of Anodic Films Formed on Magnesium in Electrolytes Containing Fluoride
Materials Transactions, **44** (4), 539-545 (2003)

* 小野幸子, 阿相英孝, 斎藤真希子, 石黒美由紀
アノード酸化ポーラスアルミナの自己規則化と孔径／セル径比
Relationship Between Pore Diameter to Cell Diameter Ratio and Self-Ordering of Anodic Porous Alumina
Electrochemistry, **71** (2), 105-107 (2003)

* S. Ono and N. Masuko
Anodic Films Grown on Magnesium and Magnesium Alloys in Fluoride Solutions
Materials Science Forum, **419-422**, 897-902 (2003)
Proceedings of the Second Osaka International Conference on Platform Science and Technology for Advanced Magnesium Alloys 2003 Osaka, Japan, 26-30 January,

(2003), TRANS TECH PUBLICATIONS LTD

* H. Asoh and S. Ono

Anodizing of Magnesium in Amine-Ethylene Glycol Electrolyte

Materials Science Forum, **419-422**, 957-962 (2003)

Proceedings of the Second Osaka International Conference on Platform Science and Technology for Advanced Magnesium Alloys 2003 Osaka, Japan, 26-30 January,
(2003), TRANS TECH PUBLICATIONS LTD

2002

* 小野幸子

機能性表面のナノスケール解析における電子顕微鏡の役割(解説)

The Role of Electronmicroscopy on the Nano-Scale Analysis of Functional Surfaces
表面技術(J. Surf. Finish. Soc. Jpn.), **53** (12), 835-838 (2002)

* 阿相英孝, 田辺久美子, 小野幸子

アノード酸化ポーラスアルミナの酸溶解特性に対する熱処理の効果(速報)

Effect of Heat Treatment on Solubility of Anodic Porous Alumina

表面技術(J. Surf. Finish. Soc. Jpn.), **53** (11), 777-778 (2002)

* J. T. B. Gundersen, S. Ono, J. H. Nordlien and K. Nisancioglu

Effect of Heat Treatment on Electrochemistry and Corrosion of Low-Alloyed
Aluminium Alloys

15th International Corrosion Congress Frontiers in Corrosion Science and
Technology, Paper No.490 (2002)

* S. Ono and N. Masuko

Anodic Behavior of Magnesium in Alkaline Solutions

15th International Corrosion Congress Frontiers in Corrosion Science and
Technology, Paper No.600 (2002)

* 小野幸子, 木島秀夫, 増子昇

水酸化ナトリウム中でのマグネシウムのアノード酸化挙動とアルミニウムの効果

Anodic Behavior of Magnesium in Sodium Hydroxide Solutions with Respect to the Effect of Aluminum

表面技術(J. Surf. Finish. Soc. Jpn.), **53** (6), 406-412 (2002)

* 小野幸子, 木島秀夫, 増子昇

ふつ化物系電解液で生成するマグネシウム陽極酸化皮膜の微細構造と電圧 - 電流特性

Microstructure and Voltage-Current Characteristics of Anodic Films Formed on Magnesium in Fluoride Electrolytes

軽金属(J. Jpn. Inst. Light Metals), **52** (3), 115-121 (2002)

* 小野幸子

マグネシウムの表面酸化現象とアノード酸化皮膜の成長(総説)

Surface Oxidation Phenomena and Anodic Film Growth on Magnesium

表面技術(J. Surf. Finish. Soc. Jpn.), **53** (3), 166-171 (2002)

2001

* H. Masuda, M. Ohya, H. Asoh and K. Nishio

Photonic Band Gap in Naturally Occurring Ordered Anodic Porous Alumina

Japanese Journal of Applied Physics, **40** (11B), L1217-L1219 (2001)

* 立花和宏, 佐藤幸裕, 仁科辰夫, 遠藤孝志, 松木健三, 小野幸子

リチウム電池駆動電解液中でのアルミニウムの不働態化 (1) 皮膜生成機構

Passivity of Aluminum in Organic Electrolytes for Lithium Batteries (1) Film

Growing Mechanism

Electrochemistry, **69** (9), 670-680 (2001)

* 小野幸子

酸化皮膜成長を利用したマグネシウムの表面改質に関する基礎研究

Fundamental Research on the Improvement of Surface Properties of Magnesium by Taking Advance Oxide Film Growth

千葉工業大学付属研究所研究報告 Vol. 7(2001/91)p.51-57

* S. Ono and N. Masuko

Mechanism of Anodic Film Growth on Magnesium and Magnesium Alloys
THERMEC 2000 - Proceedings Internationals, Las Vegas, USA, December 2000:
CD-ROM, Section A1, Vol 117/3 Special Issue: Journal of Materials Processing
Technology, (October 2001), Eds. T.Chandra et al, Elsevier Science, UK

* S. Ono, F. Mizutani, M. Ue and N. Masuko
Effects of Current Density and Temperature on the Morphology and Electric
Properties of Anodic Films on Aluminum in Corrosion and Corrosion
Protection/2001,
J. D. Sinclair, R. P. Frankenthal, E. Kalman, and W. Plieth, Editors,
PV 2001-22, p. 1129, Journal of the Electrochemical Society Proceedings Series,
Pennington, NJ (2001)

* Y. W. Keuong, J. H. Nordlien, S. Ono and K. Nisancioglu
Effect of Lead on Anodic Behavior of Aluminum in Corrosion and Corrosion
Protection/2001,
J. D. Sinclair, R. P. Frankenthal, E. Kalman, and W. Plieth, Editors,
PV 2001-22, p. 876, Journal of the Electrochemical Society Proceedings Series,
Pennington, NJ (2001)

* 小野幸子
マグネシウムの酸化皮膜成長における基礎的現象 - アノード酸化と化成処理 -
(依頼講演)
金属のアノード酸化皮膜の機能化部会 第18回コンファレンステキスト, 70-76
(2001)

* 小野幸子
マグネシウム表面酸化皮膜の組成と構造の制御(依頼講演)
表面技術協会 表面処理材の機能特性評価部会例会“マグネシウム表面処理プロ
セスの最前線を探る”(2001/6/15 東京都立食品技術センター) p.1-21

- * S. Ono, K. Asami and N. Masuko
Mechanism of Chemical Conversion Coating Film Growth on Magnesium and
Magnesium Alloys
Materials Transactions, **42** (7), 1225-1231 (2001)
- * H. Asoh, K. Nishio, M. Nakao, T. Tamamura and H. Masuda
Conditions for Fabrication of Ideally Ordered Anodic Porous Alumina Using
Pretextured Al
Journal of the Electrochemical Society, **148** (4), B152-B156 (2001)
- * H. Asoh, K. Nishio, M. Nakao, A. Yokoo, T. Tamamura and H. Masuda
Fabrication of Ideally Ordered Anodic Porous Alumina with 63 nm Hole Periodicity
Using Sulfuric Acid
Journal of Vacuum Science and Technology B, **19** (2), 569-572 (2001)

2000

- * 小野幸子, 木島秀夫, 増子昇
マグネシウムのアノード酸化における電圧-電流特性に対する素地組成とアルミニ
ウムイオン添加の効果(速報)
Effects of Substrate Composition and Aluminum Ion Addition on the Formation
Voltage - Current Relation for Anodizing of Magnesium
表面技術(J. Surf. Finish. Soc. Jpn.), 51 (11), 1168-1169 (2000)

* H. Masuda, M. Ohya, K. Nishio, H. Asoh, M. Nakao, M. Nohtomi, A. Yokoo and T. Tamamura

Photonic Band Gap in Anodic Porous Alumina with Extremely High Aspect Ratio Formed in Phosphoric Acid Solution

Jpn. J. Appl. Phys., 39 (10B), L1039-L1041 (2000)

* K. Asami and S. Ono

Quantitative X-ray Photoelectron Spectroscopy Characterization of Magnesium Oxidized in Air

J. Electrochem. Soc., 147 (4), 1408-1413 (2000)

* S. Ono and K. Takeda

Effect of Electrolytic Condition on the Microstructure and Defect Morphology of Porous Anodic Alumina Films in Passivity of Metals and Semiconductors VIII/1999, M. B. Ives, B. R. MacDougall, J. A. Bardwell, Editors, PV 1999-42, p. 930, Journal of the Electrochemical Society Proceedings Series, Pennington, NJ (2000)

* S. Ono, S. Yamashita and N. Masuko

Changes in Thickness and Degree of Anion Incorporation of Anodic Alumina Films

Proceedings of the 2nd International Symposium on Aluminium Surface Science and Technology, 163-168 (2000)

* S. Ono, K. Takeda and N. Masuko

Cell Dimension of Porous Anodic Alumina Films

Proceedings of the 2nd International Symposium on Aluminium Surface Science and Technology, 398-403 (2000)

* S. Ono and N. Masuko

TEM and SIMS Study of Duplex Structure of Anodic Films on Aluminum

Proceedings of the 2nd International Conference on Processing Materials for Properties, 297-300 (TMS, 2000), The Minerals, Metals & Materials Society

1999

* H. Masuda, M. Ohya, H. Asoh, M. Nakao, M. Nohtomi and T. Tamamura
Photonic Crystal Using Anodic Porous Alumina
Japanese Journal of Applied Physics, **38**, (12A), L1403-L1405 (1999)

* 山口辰男, 仲井俊顕, 浅沼直哉, 小野幸子, 武田邦彦
形状制御としてのスピノーダル型凝集による微細粒子の内部構造制御
Steric Inner Structure Control of Fine Particles by Spinodal Decomposition as Shape
Regulation Preparation
資源と素材 (Journal of Mining and Materials Processing Institute of Japan), **115** (6),
475-480 (1999)

* S. Ono, T. Osaka, K. Naitoh and Y. Nakagishi
Mechanism of Direct Copper Plating on Non-Conducting Substrates
Journal of the Electrochemical Society, **146** (1), 160-166 (1999)

* S. Ono, K. Naitoh and T. Osaka
Initial Propagation Stage of Direct Copper Plating on Non-Conducting Substrates
Electrochimica Acta, **44** 3697-3705 (1999)

* 土屋敏明, 豊高宏典, 青柳裕司, 小野幸子, 武田邦彦
ボックスコンタクト法によるコンピュータ・シミュレーションと分離への適用
Computer Simulation by Box-Contact Method and it's Application for a Separation
System
資源と素材 (Journal of Mining and Materials Processing Institute of Japan), **115** (3),
152-158 (1999)

* S. Ono, A. Sakakibara, T. Osaka, I. Koiwa, J. Mita and K. Asami
Characterization of Ferroelectric SrBi₂Ta₂O₉ Thin Films Prepared from Alkoxide
Solutions
Journal of the Electrochemical Society, **146** (2), 685-690 (1999)

1998

* 小野幸子

金属のアノード酸化皮膜 その生成機構 アノード酸化により生成する多孔質皮膜の構造と成長機構 - アルミニウムおよびマグネシウムについて - (解説)

表面科学 **19** (12), 790 (1998)

* I. Koiwa, T. Kanehara, H. Kato, S. Ono, A. Sakakibara, T. Osaka and K. Asami
Effects of H₂ Sintering and Pt Upper Electrode on Metallic Bi Content in
Sr_{0.9}Bi_{2.1}Ta₂O₉ Thin Films for Ferroelectric Memories Prepared by Sol-Gel Method
Japanese Journal of Applied Physics, **37** (9B), 5192-5197 (1998)

* 小野幸子, 逢坂哲彌, 内藤和久, 中岸豊

Pd/Sn 混合触媒を利用した銅のダイレクトプレーティング導体化過程の解析
Analysis of Direct Copper Plating Acceleration by Pd/Sn Mixed Catalyst
表面技術(J. Surf. Finish. Soc. Jpn.), **49** (6), 625-630 (1998)

* T. Osaka, S. Ono, A. Sakakibara and I. Koiwa

Structural Defects in Sr_{0.7}Bi_{2.3}Ta₂O₉ Thin Film for Ferroelectric Memory
IEICE, Transactions on Electronics, **E81-C** (4), 545-550(1998)

* I. Koiwa, T. Kanehara, J. Mita, T. Osaka, S. Ono, A. Sakakibara and T. Seki
Crystallization Process of Sr_{0.7}Bi_{2.3}Ta₂O₉ Thin Films with Different Crystal
Orientation Prepared by Chemical Liquid Deposition Using Alkoxide Precursor
IEICE, Transactions on Electronics, **E81-C** (4), 552-559(1998)

* T. Osaka, A. Sakakibara, T. Seki, S. Ono, I. Koiwa and A. Hashimoto

Phase Transition in Ferroelectric SrBi₂Ta₂O₉ Thin Films with Change of Heat-treatment Temperature

Japanese Journal of Applied Physics, **37** (2), 597-601 (1998)

* S. Ono

Surface Phenomena and Protective Film Growth on Magnesium and Magnesium Alloys

Metallurgical Science and Technology, **16** Nos.1-2, 91-104 (1998)

- * S. Ono, T. Osaka, K. Asami and N. Masuko
Oxide Films Formed on Magnesium and Magnesium Alloys by Anodizing and
Chemical Conversion Coating
Corrosion Reviews, **16** Nos.1-2, 175-190 (1998)
- * 小野幸子
先端追跡 - 非伝導体へのめっきプロセス"ダイレクトプレーティング"の開発とそのメカニズム
表面科学 **19** (2), 130 (1998)
- ## 1997
- * H. Masuda, H. Yamada, M. Satoh, H. Asoh, M. Nakao and T. Tamamura
Highly Ordered Nanochannel-Array Architecture in Anodic Alumina
Applied Physics Letters, **71** (19), 2770-2772 (1997)
- * J. H. Nordlien, S. Ono, N. Masuko and K. Nisancioglu
A TEM Investigation of Naturally Formed Oxide Films on Pure Magnesium
Corrosion Science, **39** (8), 1397-1414 (1997)
- * S. Ono, A. Sakakibara, T. Seki, T. Osaka, I. Koiwa, J. Mita, T. Iwabuchi and K. Asami
Correlation between Composition, Microstructure, and Ferroelectric Properties of
SrBi₂Ta₂O₉ Thin Films
Journal of the Electrochemical Society, **144** (7), L185-L187 (1997)
- * H. Masuda, F. Hasegawa and S. Ono
Self-Ordering of Cell Arrangement of Anodic Porous Alumina Formed in Sulfuric
Acid Solution
Journal of the Electrochemical Society, **144** (5), L127-L130 (1997)
- * 志田あづさ, 小野幸子, 斎藤誠, 鈴木正教, 堀口誠, 寺島慶一, 松坂菊生, 増
子昇

マグネシウムダイカスト AZ91D の化成処理および陽極酸化により生成した皮膜の組成と形態

Composition and Morphology of Surface Films Coated by Chemical Conversion and Anodic Oxidation on Magnesium Die Cast AZ91D

表面技術(J. Surf. Finish. Soc. Jpn.), **48** (3), 349-354 (1997)

* I. Koiwa, T. Kanehara, J. Mita, T. Iwabuchi, T. Osaka and S. Ono

Orientation Control of Sr_{0.7}Bi_{2.3}Ta₂O_{9+α} Thin Films by Chemical Liquid Deposition

Japanese Journal of Applied Physics, **36** (3B), 1597-1601 (1997)

* J. H. Nordlien, K. Nisancioglu, S. Ono and N. Masuko

Morphology and Structure of Water-Formed Oxides on Ternary MgAl Alloys

Journal of the Electrochemical Society, **144** (2), 461-466 (1997)

* 小野幸子

先端追跡 - 陽極酸化アルミナのセル配列の高規則化

表面科学 **18** (3), 189 (1997)