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）

* 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
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
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: 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 Atructures 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

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
* 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

* 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～（解説）
Nano- and Microfabrication Using Self-Organized Materials ～Natural Lithography ～

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
* 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)
* T. Yokoyama, H. Asoh 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

Electrodeposition of Hydroxyapatite and Bioactivation of Porous Titanium
チタン, 58 (2), 15-20 (2010.4)
* 小野幸子

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

* 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)

* 小野幸子
マグネシウムのアノード酸化(解説)

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

* S. Ono and H. Asoh
Nano/Micro-Patterning of Silicon by Site-Selective Chemical Etching through Colloidal Crystal Templating

* 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

* 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

* 阿相英孝, 川目達也, 柴田雅子, 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

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 Microwell 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チ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)

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

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

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

* S. Ono, A. Oide and H. Asoh
Nanofabrication of Silicon Substrate Utilizing Self-Organized Anodic Porous Alumina

* S. Ono
Preparation of Highly Ordered Nano-Porous Materials and Their Application

* 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)

H. Asoh and S. Ono

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

2005

* H. Asoh, A. Oide and S. Ono
Fabrication of Self-Ordered Nanohole Arrays on Si by Localized Anodization and Subsequent Chemical Etching

* S. Ono, M. Saito and H. Asoh
Self-Ordering of Anodic Porous Alumina Formed in Organic Acid Electrolytes

* H. Asoh and S. Ono
Design of Two-Dimensional/Three-Dimensional Composite Porous Alumina by Colloidal crystal Templating and Subsequent Anodization

* S. Ono, C. Wada and H. Asoh
Structure and Property of Anodic Barrier Films Formed on Aluminum in Low Voltage Range

* 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,

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,
Anodizing Behavior of Magnesium in Electrolyte Containing Organic Solvent and Water

Effect of Electrolyte pH on Dielectric Properties of Anodic Oxide Films Formed on Niobium

Crystallization and Dielectric Properties of Anodic Oxide Films Formed on Niobium

Study on Self-Ordering Mechanism of Anodic Porous Alumina Formed in Malonic Acid Solution

Effects of Formation Voltage and Electrolyte Ions Concentration on the Structure and Passivity of Anodic Films on Magnesium
Gas Emission Control of Aluminum Alloy Surface by Means of Composite Anodic Film Formation

Fabrication of Porous Silica with Three-Dimensional Periodicity by Si Anodization

Detailed Observation of Cell Junction in Anodic Porous Alumina with Square Cells

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

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

Controlling Factor of Self-Ordering of Anodic Porous Alumina

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

*  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

* 小野幸子
マグネシウムの陽極酸化（解説）
Anodizing of Magnesium

2003

* T. H. Okabe, N. Sato, Y. Mitsuda and S. Ono
Production of Tantalum Powder by Magnesiothermic Reduction of Feed Preform

* 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

* S. Ono, M. Saito and H. Asoh
Self-Ordering Behavior of Anodic Porous Films Formed on Aluminum

* 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

* S. Ono, Y. Suzuki and H. Asoh
Surface Oxidation Behavior of Mg-Li-Y Ultra Light Alloys

* S. Ono, C. Wada and H. Asoh
Evaluation of the Structure of Ultra Thin Anodic Films Formed on Aluminum at Low Voltages

* H. Asoh, A. Oide and S. Ono
Anodizing Behavior of Aluminum Sputtered on Semiconductor Substrate

* H. Asoh, M. Matsuo, M. Yoshihama and S. Ono
Transfer of Nanoporous Pattern of Anodic Porous Alumina into Si Substrate

* Y. W. Keuong, J. H. Nordlien, S. Ono and K. Nisancioglu
Electrochemical Activation of Aluminum by Trace Element Lead

* H. Asoh, S. Ono, T. Hirose, M. Nakao and H. Masuda
Growth of Anodic Porous Alumina with Square Cells

* 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

* S. Ono, Y. Suzuki, H. Asoh, N. Hanzawa and M. Hyakutake
Microstructure of Anodic Films Grown on Magnesium-Lithium-Yttrium Ultra Light Alloy

* 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

* 小野幸子, 阿相英孝, 齋藤真希子, 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

* 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

* H. Asoh and S. Ono
Anodizing of Magnesium in Amine-Ethylene Glycol Electrolyte

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

* 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

* 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

* S. Ono and N. Masuko
Anodic Behavior of Magnesium in Alkaline Solutions

* 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

* 小野幸子, 木島秀夫, 増子昇
ふっ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

* 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

2001

* H. Masuda, M. Ohya, H. Asoh and K. Nishio
Photonic Band Gap in Naturally Occurring Ordered Anodic Porous Alumina

* 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

* 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 Protection2001,
J. D. Sinclair, R. P. Frankenthal, E. Kalman, and W. Plieth, Editors,

* Y. W. Keuong, J. H. Nordlien, S. Ono and K. Nisancioglu
Effect of Lead on Anodic Behavior of Aluminum in Corrosion and Corrosion Protection2001,
J. D. Sinclair, R. P. Frankenthal, E. Kalman, and W. Plieth, Editors,

* 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

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

益田秀樹, 阿相英孝
陽極酸化ボーラスアルミナを用いた二次元フォトニック結晶(解説)
2D Photonic Crystals Using Anodic Porous Alumina
日本結晶成長学会誌, 28 19-24 (2001)

H. Masuda, H. Asoh, M. Watanabe, K. Nishio, M. Nakao and T. Tamamura
Square and Triangular Nanohole Array Architecture of Anodic Porous Alumina
Advanced Materials, 13 (3), 189-192 (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
Photonic Band Gap in Anodic Porous Alumina with Extremely High Aspect Ratio Formed in Phosphoric Acid Solution

K. Asami and S. Ono
Quantitative X-ray Photoelectron Spectroscopy Characterization of Magnesium Oxidized in Air

S. Ono and K. Takeda

S. Ono, S. Yamashita and N. Masuko

S. Ono, K. Takeda and N. Masuko

S. Ono and N. Masuko

1999
H. Masuda, M. Ohya, H. Asoh, M. Nakao, M. Nohtomi and T. Tamamura
Photonic Crystal Using Anodic Porous Alumina

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

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

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 Sr0.9Bi2.1Ta2O9 Thin Films for Ferroelectric Memories Prepared by Sol-Gel Method

小野幸子, 逢坂哲弥, 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

T. Osaka, S. Ono, A. Sakakibara and I. Koiwa
Structural Defects in Sr0.7Bi2.3Ta2O9 Thin Film for Ferroelectric Memory

I. Koiwa, T. Kanehara, J. Mita, T. Osaka, S. Ono, A. Sakakibara and T. Seki
Crystallization Process of Sr0.7Bi2.3Ta2O9 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

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”的開発とそのメカニズム
表面科学 19 (2), 130 (1998)

1997

Highly Ordered Nanochannel-Array Architecture in Anodic Alumina

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)

Correlation between Composition, Microstructure, and Ferroelectric Properties of SrBi2Ta2O9 Thin Films

H. Masuda, F. Hasegawa and S. Ono
Self-Ordering of Cell Arrangement of Anodic Porous Alumina Formed in Sulfuric Acid Solution

志田あづさ, 小野幸子, 斉藤誠, 鈴木正教, 堀口誠, 寺島慶一, 松坂菊生, 増子昇

* Indicates that the author is from Osaka University.
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

* I. Koiwa, T. Kanehara, J. Mita, T. Iwabuchi, T. Osaka and S. Ono
Orientation Control of Sr0.7Bi2.3Ta2O9+α Thin Films by Chemical Liquid Deposition

* 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)