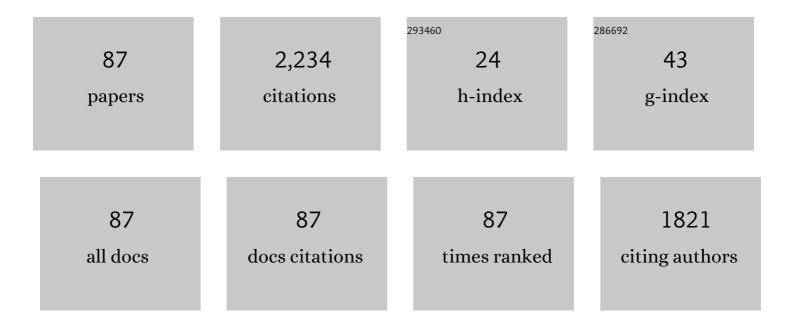
## Takayuki Narushima

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Formation of carbon-added anatase-rich TiO2 layers on titanium and their antibacterial properties in visible light. Dental Materials, 2021, 37, e37-e46.  | 1.6 | 7         |
| 2  | Unique crystallographic texture formation in Inconel 718 by laser powder bed fusion and its effect on mechanical anisotropy. Acta Materialia, 2021, 212, 116876.  | 3.8 | 174       |
| 3  | Effect of Precursor Deficiency Induced Ca/P Ratio on Antibacterial and Osteoblast Adhesion<br>Properties of Ag-Incorporated Hydroxyapatite: Reducing Ag Toxicity. Materials, 2021, 14, 3158.  | 1.3 | 8         |
| 4  | Effect of Scan Length on Densification and Crystallographic Texture Formation of Pure Chromium<br>Fabricated by Laser Powder Bed Fusion. Crystals, 2021, 11, 9.   | 1.0 | 18        |
| 5  | Fabrication of Ag and Ta co-doped amorphous calcium phosphate coating films by radiofrequency<br>magnetron sputtering and their antibacterial activity. Materials Science and Engineering C, 2020, 109,<br>110599.  | 3.8 | 24        |
| 6  | Predicting the Parabolic Rate Constants of High-Temperature Oxidation of Ti Alloys Using Machine<br>Learning. Oxidation of Metals, 2020, 94, 205-218.   | 1.0 | 16        |
| 7  | Crystallographic orientation control of pure chromium via laser powder bed fusion and improved high temperature oxidation resistance. Additive Manufacturing, 2020, 36, 101624.   | 1.7 | 36        |
| 8  | Using HAADF-STEM for atomic-scale evaluation of incorporation of antibacterial Ag atoms in a β-tricalcium phosphate structure. Nanoscale, 2020, 12, 16596-16604.  | 2.8 | 7         |
| 9  | Precipitation during γ-ε Phase Transformation in Biomedical Co-Cr-Mo Alloys Fabricated by Electron<br>Beam Melting. Metals, 2020, 10, 71.   | 1.0 | 7         |
| 10 | Effect of Nonmetallic Inclusions on Fatigue Properties of Superelastic Ti-Ni Fine Wire. Metals, 2019, 9,<br>999.  | 1.0 | 5         |
| 11 | Overcoming the strength-ductility trade-off by the combination of static recrystallization and<br>low-temperature heat-treatment in Co-Cr-W-Ni alloy for stent application. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138400. | 2.6 | 21        |
| 12 | Visibleâ€lightâ€responsive antibacterial activity of Auâ€incorporated TiO <sub>2</sub> layers formed on<br>Ti–(0–10)at%Au alloys by air oxidation. Journal of Biomedical Materials Research - Part A, 2019, 107,<br>991-1000.   | 2.1 | 12        |
| 13 | Mechanisms of oxidation of pure and Si-segregated α-Ti surfaces. Applied Surface Science, 2019, 463, 686-692.   | 3.1 | 8         |
| 14 | Antibacterial activity of Ag nanoparticle-containing hydroxyapatite powders in simulated body fluids with Cl ions. Materials Chemistry and Physics, 2019, 223, 473-478.   | 2.0 | 11        |
| 15 | Synchronous improvement in strength and ductility of biomedical Co–Cr–Mo alloys by unique<br>low-temperature heat treatment. Materials Science & Engineering A: Structural Materials:<br>Properties, Microstructure and Processing, 2019, 739, 53-61.   | 2.6 | 16        |
| 16 | Experimental and theoretical study of the effect of Si on the oxidative behavior of Ti-6Al-4V alloys.<br>Journal of Alloys and Compounds, 2019, 776, 519-528.   | 2.8 | 22        |
| 17 | Heterogeneous microstructures and corrosion resistance of biomedical Co-Cr-Mo alloy fabricated by electron beam melting (EBM). Additive Manufacturing, 2018, 24, 103-114.   | 1.7 | 32        |
| 18 | Preparation of orthophosphate glasses in the MgO–CaO–SiO2–Nb2O5–P2O5 system. Bio-Medical<br>Materials and Engineering, 2017, 28, 23-30.   | 0.4 | 3         |

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|----|---|-------------|-----------|
| 19 | In vitro performance of Ag-incorporated hydroxyapatite and its adhesive porous coatings deposited by electrostatic spraying. Materials Science and Engineering C, 2017, 77, 556-564.  | 3.8         | 36        |
| 20 | In vitro evaluation of Ag-containing calcium phosphates: Effectiveness of Ag-incorporated β-tricalcium phosphate. Materials Science and Engineering C, 2017, 75, 926-933.   | 3.8         | 31        |
| 21 | First principles study of oxidation of Si-segregated α-Ti(0001) surfaces. Japanese Journal of Applied Physics, 2017, 56, 125701.  | 0.8         | 10        |
| 22 | Effect of Si on the oxidation reaction of α-Ti(0 0 0 1) surface: <i>ab initio</i> molecular dynamics st<br>Science and Technology of Advanced Materials, 2017, 18, 998-1004.  | udy.<br>2.8 | 8         |
| 23 | The antihistamine olopatadine regulates T cell activation in palladium allergy. International<br>Immunopharmacology, 2016, 35, 70-76.   | 1.7         | 8         |
| 24 | TiO2 layers on Ti-Au alloy formed by two-step thermal oxidation and their photocatalytic activity in visible-light. Materials Letters, 2016, 185, 290-294.  | 1.3         | 10        |
| 25 | Formation of Porous Layer with Low Ni Content on NiTi Substrate by Dealloying in Metallic Melts.<br>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63,<br>766-770.           | 0.1         | 0         |
| 26 | Structure and physicochemical properties of CaO–P2O5–Nb2O5–Na2O glasses. Journal of<br>Non-Crystalline Solids, 2016, 432, 60-64.  | 1.5         | 34        |
| 27 | Microstructural evolution and mechanical properties of biomedical Co–Cr–Mo alloy subjected to<br>high-pressure torsion. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 226-235.                        | 1.5         | 26        |
| 28 | Fabrication of low-cost beta-type Ti–Mn alloys for biomedical applications by metal injection molding process and their mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 497-507. | 1.5         | 71        |
| 29 | Structures and dissolution behaviors of MgO–CaO–P2O5–Nb2O5 glasses. Journal of Non-Crystalline<br>Solids, 2016, 438, 18-25.   | 1.5         | 22        |
| 30 | Improvement in mechanical strength of low-cost β-type Ti–Mn alloys fabricated by metal injection molding through cold rolling. Journal of Alloys and Compounds, 2016, 664, 272-283.   | 2.8         | 42        |
| 31 | Structures and dissolution behaviors of CaO–P2O5–TiO2/Nb2O5 (Ca/P ≥ 1) invert glasses. Journal of<br>Non-Crystalline Solids, 2015, 426, 35-42.  | 1.5         | 20        |
| 32 | Synthesis and characterization of Ag-containing calcium phosphates with various Ca/P ratios.<br>Materials Science and Engineering C, 2015, 53, 111-119.   | 3.8         | 36        |
| 33 | Formation of TiO2 layers on commercially pure Ti and Ti–Mo and Ti–Nb alloys by two-step thermal oxidation and their photocatalytic activity. Applied Surface Science, 2015, 357, 2198-2205.                                   | 3.1         | 15        |
| 34 | Microstructures, mechanical properties and cytotoxicity of low cost beta Ti–Mn alloys for<br>biomedical applications. Acta Biomaterialia, 2015, 26, 366-376.  | 4.1         | 80        |
| 35 | NKG2D+ IFN-Î <sup>3</sup> + CD8+ T Cells Are Responsible for Palladium Allergy. PLoS ONE, 2014, 9, e86810.  | 1.1         | 23        |
| 36 | Evaluation of Thin Amorphous Calcium Phosphate Coatings on Titanium Dental Implants Deposited<br>Using Magnetron Sputtering. Implant Dentistry, 2014, 23, 343-350.  | 1.7         | 23        |

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|----|---|------------|-----------------------|
| 37 | Effects of Niobium Ions Released from Calcium Phosphate Invert Glasses Containing<br>Nb <sub>2</sub> O <sub>5</sub> on Osteoblast-Like Cell Functions. ACS Applied Materials &<br>Interfaces, 2012, 4, 5684-5690.     | 4.0        | 70                    |
| 38 | Enhancement of nickel elution by lipopolysaccharide-induced inflammation. Journal of Dermatological Science, 2011, 62, 50-7.  | 1.0        | 10                    |
| 39 | Recovery of Calcium from BF Slag and Synthesis of Zeolite A Using Its Residue. ISIJ International, 2011, 51, 901-905.   | 0.6        | 15                    |
| 40 | Alkali Hydrothermal Synthesis of Zeolite A Using Oxide By-products. ISIJ International, 2011, 51, 158-165.  | 0.6        | 7                     |
| 41 | Microscopic observations and inflammatory cytokine productions of human macrophage<br>phagocytising submicron titanium particles. Journal of Materials Science: Materials in Medicine, 2010,<br>21, 267-275.          | 1.7        | 23                    |
| 42 | Gene expression analyses of human macrophage phagocytizing sub-μ  titanium particles by allergy DNA<br>chip (GenopalTM). Bio-Medical Materials and Engineering, 2009, 19, 63-70.                                      | 0.4        | 7                     |
| 43 | Calcium Phosphate Films with/without Heat Treatments Fabricated Using RF Magnetron Sputtering.<br>Journal of Biomechanical Science and Engineering, 2009, 4, 392-403.   | 0.1        | 16                    |
| 44 | "Strategy for Ubiquitous Titanium Alloysâ€: Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of<br>Metals, 2008, 72, 915.  | 0.2        | 3                     |
| 45 | Evaluation of Sliding Wear Resistant Property of C.P. Titanium and SP-700 Titanium Alloy<br>Surface-hardened by Ar–5%CO Gas. ISIJ International, 2008, 48, 89-98.   | 0.6        | 10                    |
| 46 | 骔é©å•性å•ä,Šã,'ç>®çš"ã•ã⊷ãŸãfã,¿ãf³ææ–™ã®è;"é¢å‡¦ç†. Keikinzoku/Journal of Japan Institute of Light Me   | tal\$92008 | , 5 <b>8,</b> &77-582 |
| 47 | Austenitic Grain Growth behavior Immediately after Dynamic Recrystallization in HSLA Steels and Austenitic Stainless Steel. ISIJ International, 2008, 48, 1419-1428.  | 0.6        | 6                     |
| 48 | Fabrication of calcium phosphate films for coating on titanium substrates heated up to 773 K by RF magnetron sputtering and their evaluations. Biomedical Materials (Bristol), 2007, 2, S160-S166.                    | 1.7        | 41                    |
| 49 | Variations in the Microstructure and Hardness with Solution Treating and Aging Conditions in New<br>.ALPHA.+.BETA. Titanium Alloy Ti-4.5%Al-6%Nb-2%Fe-2%Mo. ISIJ International, 2007, 47, 1042-1049.                  | 0.6        | 1                     |
| 50 | Alloy Design and Properties of New α+β Titanium Alloy with Excellent Cold Workability, Superplasticity<br>and Cytocompatibility. ISIJ International, 2007, 47, 745-752.   | 0.6        | 7                     |
| 51 | Alloy Design and Property Evaluation of New .BETA. Type Titanium Alloy with Excellent Cold<br>Workability and Biocompatibility. ISIJ International, 2006, 46, 292-301.  | 0.6        | 6                     |
| 52 | Accumulation of Element Ti in Macrophage-like RAW264 Cells Cultured in Medium with 1 ppm Ti and<br>Effects on Cell Viability, SOD Production and TNFALPHA. Secretion. Dental Materials Journal, 2006,<br>25, 726-732. | 0.8        | 19                    |
| 53 | .BETA. Grain Refinement due to Small Amounts of Yttrium Addition in .ALPHA.+.BETA. Type Titanium<br>Alloy, SP-700. ISIJ International, 2006, 46, 129-137.   | 0.6        | 26                    |
| 54 | Surface Hardening Treatment in Use of CO Gas and Post-Heat Treatment in C.P. Titanium and Titanium  | 0.3        | 6                     |

Surface Hardening Treatment in Use of CO Gas and Post-Heat Treatment in C.P. Titanium and Titanium Alloys. Solid State Phenomena, 2006, 118, 109-114.

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|----|---|-----|-----------|
| 55 | Surface Hardening Treatment for C.P. Titanium and Titanium Alloys in Use of Ar–5%CO Gas. ISIJ<br>International, 2006, 46, 1329-1338.  | 0.6 | 11        |
| 56 | Surface Hardening Treatment for Titanium and Titanium Alloys in Use of CO <sub>2</sub> Gas.<br>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2006, 92, 1-9.                                       | 0.1 | 6         |
| 57 | Hydrothermal Synthesis of Zeolite A Using Blast Furnace Slag. ISIJ International, 2005, 45, 937-945.  | 0.6 | 57        |
| 58 | Effects of Dynamic Recrystallization on .GAMMA. Grain Refinement and Improvement of Micro<br>Segregation of As Cast Austenite in 9% Ni Steel. ISIJ International, 2005, 45, 338-346.                                  | 0.6 | 16        |
| 59 | Development of dental and medical systems for reconstruction of human body with high performance titanium materials. International Congress Series, 2005, 1284, 324-325.  | 0.2 | 2         |
| 60 | Application of Srβ-alumina solid electrolyte to a CO2 gas sensor. Solid State Ionics, 2003, 156, 329-336.   | 1.3 | 12        |
| 61 | Grain Refinement of As Cast Austenite by Dynamic Recrystallization in HSLA Steels. ISIJ International, 2003, 43, 1063-1072.   | 0.6 | 27        |
| 62 | Oxidation of Silicon and Silicon Carbide in Ozoneâ€Containing Atmospheres at 973 K. Journal of the<br>American Ceramic Society, 2002, 85, 2049-2055.  | 1.9 | 15        |
| 63 | Calorimetric study on hydration of CaO-based oxides. Journal of Alloys and Compounds, 2001, 321, 276-281.   | 2.8 | 12        |
| 64 | Highâ€īemperature Morphological Evolution of Lithographically Introduced Cavities in Silicon Carbide.<br>Journal of the American Ceramic Society, 2001, 84, 921-928.  | 1.9 | 13        |
| 65 | Activity of Ga <sub>2</sub> O <sub>3</sub> in B <sub>2</sub> O <sub>3</sub> Flux and Standard Free Energies of Formation of GaBO <sub>3</sub> and InBO <sub>3</sub> . Materials Transactions, JIM, 2000, 41, 714-718. | 0.9 | 5         |
| 66 | Electrical conductivity of alkaline-earth metal β-aluminas and their application to a CO2 gas sensor.<br>Solid State Ionics, 1999, 121, 313-319.  | 1.3 | 11        |
| 67 | Electrical conductivity and ionic transference number of Sr and Baβ-aluminas. Solid State Ionics, 1999, 124, 119-124.   | 1.3 | 13        |
| 68 | Effect of Alloying Elements on Carbon Solubility in Liquid Silicon Equilibrated with Silicon Carbide.<br>Materials Transactions, JIM, 1998, 39, 819-823.  | 0.9 | 10        |
| 69 | High-Temperature Oxidation of Silicon Carbide and Silicon Nitride. Materials Transactions, JIM, 1997, 38, 821-835.  | 0.9 | 151       |
| 70 | Solubility of Carbon in Liquid Silicon Equilibrated with Silicon Carbide. Materials Transactions, JIM, 1997, 38, 990-994.   | 0.9 | 38        |
| 71 | Oxygen Solubility in Liquid Si–X (X=Sb, B, P and As) Alloys. Materials Transactions, JIM, 1995,<br>36, 763-769.   | 0.9 | 15        |
| 72 | Oxygen Solubility in Liquid Gallium and Liquid Indium. Nippon Kinzoku Gakkaishi/Journal of the Japan<br>Institute of Metals, 1995, 59, 37-43.   | 0.2 | 8         |

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|----|--|-----|-----------|
| 73 | Theoretical estimation of the effect of minor elements on the solubility of oxygen in silicon melt.<br>Journal of Crystal Growth, 1994, 139, 357-362.  | 0.7 | 3         |
| 74 | High-Temperature Oxidation of Chemically Vapor-Deposited Silicon Nitride in a Carbon<br>Monoxide-Carbon Dioxide Atmosphere. Journal of the American Ceramic Society, 1994, 77, 2921-2925.                                | 1.9 | 4         |
| 75 | High-Temperature Active Oxidation and Active-to-Passive Transition of Chemically Vapor-Deposited<br>Silicon Nitride in N2-O2 and Ar-O2 Atmospheres. Journal of the American Ceramic Society, 1994, 77,<br>2369-2375.     | 1.9 | 26        |
| 76 | Active-to-Passive Transition and Bubble Formation for High-Temperature Oxidation of Chemically<br>Vapor-Deposited Silicon Carbide in CO-CO2 Atmosphere. Journal of the American Ceramic Society, 1994,<br>77, 1079-1082. | 1.9 | 30        |
| 77 | Oxygen Solubility in Liquid Silicon. Materials Transactions, JIM, 1994, 35, 522-528.   | 0.9 | 37        |
| 78 | Nitrogen Solubility in Liquid Silicon. Materials Transactions, JIM, 1994, 35, 821-826.   | 0.9 | 24        |
| 79 | High-Temperature Active Oxidation of Chemically Vapor-Deposited Silicon Carbide in COCO2<br>Atmosphere. Journal of the American Ceramic Society, 1993, 76, 2521-2524.  | 1.9 | 54        |
| 80 | Oxidation of Chemically Vapor-Deposited Silicon Nitride in Dry Oxygen at 1923 to 2003 K. Journal of the<br>American Ceramic Society, 1993, 76, 1047-1051.  | 1.9 | 20        |
| 81 | Phase Diagrams of the<br>Ga <sub>2</sub> O <sub>3</sub> –B <sub>2</sub> O <sub><br/>and<br/>In<sub>2</sub>O<sub>3</sub>–B<sub>2</sub>O<sub>3</sub></sub>   | 0.9 | 10        |
| 82 | High-Temperature Active Oxidation of Chemically Vapor-Deposited Silicon Carbide in an ArO2<br>Atmosphere. Journal of the American Ceramic Society, 1991, 74, 2583-2586.  | 1.9 | 100       |
| 83 | High-Temperature Oxidation of Chemically Vapor-Deposited Silicon Carbide in Wet Oxygen at 1823 to 1923 K. Journal of the American Ceramic Society, 1990, 73, 3580-3584.  | 1.9 | 94        |
| 84 | High-Temperature Passive Oxidation of Chemically Vapor Deposited Silicon Carbide. Journal of the<br>American Ceramic Society, 1989, 72, 1386-1390.   | 1.9 | 176       |
| 85 | Precipitates in Biomedical Co-Cr-Mo-C-Si-Mn Alloys. Advanced Materials Research, 0, 277, 51-58.  | 0.3 | 12        |
| 86 | Microstructural Analysis of Biomedical Co-Cr-Mo Alloy Subjected to High-Pressure Torsion<br>Processing. Key Engineering Materials, 0, 616, 263-269.  | 0.4 | 2         |
| 87 | Precipitate Phases and Mechanical Properties of Heat-Treated ASTM F 90 Co-Cr-W-Ni Alloy. Key<br>Engineering Materials, 0, 616, 258-262.  | 0.4 | 7         |