Kyosuke Ueda

List of Publications by Year
in descending order

108 papers	1,377 citations	411340 20 h-index	511568 30 g-index
115 all docs	115 docs citations	115 times ranked	1109 citing authors

#	Article	IF	Citations
1	Electronegativity Difference as a Descriptor for the Oxidation-Inhibiting Effect of the Alloying Element during the Early Stages of Titanium Oxidation. Langmuir, 2022, 38, 1448-1457.	1.6	3
2	Flexible and Tough Superelastic Coâ€"Cr Alloys for Biomedical Applications. Advanced Materials, 2022, 34, e2202305.	11.1	11
3	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
4	Improvement of Mechanical Properties by Microstructural Evolution of Biomedical Coâ€"Crâ€"Wâ€"Ni Alloys with the Addition of Mn and Si. Materials Transactions, 2021, 62, 229-238.	0.4	7
5	Effect of Precursor Deficiency Induced Ca/P Ratio on Antibacterial and Osteoblast Adhesion Properties of Ag-Incorporated Hydroxyapatite: Reducing Ag Toxicity. Materials, 2021, 14, 3158.	1.3	8
6	Development of Low-Yield Stress Coâ€"Crâ€"Wâ€"Ni Alloy by Adding 6 Mass Pct Mn for Balloon-Expandable Stents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4137-4145.	1.1	4
7	Antibacterial Surface Treatment of Titanium Alloys. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 616-621.	0.1	0
8	Fabrication of Ag and Ta co-doped amorphous calcium phosphate coating films by radiofrequency magnetron sputtering and their antibacterial activity. Materials Science and Engineering C, 2020, 109, 110599.	3.8	24
9	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
10	Using HAADF-STEM for atomic-scale evaluation of incorporation of antibacterial Ag atoms in a Î²-tricalcium phosphate structure. Nanoscale, 2020, 12, 16596-16604.	2.8	7
11	Precipitation during Î³-Îµ Phase Transformation in Biomedical Co-Cr-Mo Alloys Fabricated by Electron Beam Melting. Metals, 2020, 10, 71.	1.0	7
12	Fabrication and bioresorbability of Ag- and Ta-containing amorphous calcium phosphate films formed on titanium substrates by RF magnetron sputtering. MATEC Web of Conferences, 2020, 321, 05007.	0.1	1
13	Development of Ultrahigh Corrosion Resistant Metallic Materials â€•Improvement of Corrosion Resistance of Martensitic Stainless Steel by Selective Laser Melting Processâ€•. Materia Japan, 2020, 59, 679-684.	0.1	1
14	Antibacterial Functionalization of Ti-based Biomaterials Based on the Understanding of the Inactivation Mechanisms of Bacteria via Photocatalytic Activity of Titanium Oxide: Visible-light Responsive Reaction of Titanium Oxide Coating. Materia Japan, 2020, 59, 612-617.	0.1	1
15	Deoxidation of Ti Melt by Newly Developed Two-Step Plasma Arc Melting Process Using Hydrogen. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1553-1558.	1.0	5
16	COX-2 induces T cell accumulation and IFN-Î³ production during the development of chromium allergy. Autoimmunity, 2019, 52, 228-234.	1.2	6
17	Effect of Nonmetallic Inclusions on Fatigue Properties of Superelastic Ti-Ni Fine Wire. Metals, 2019, 9, 999.	1.0	5
18	Overcoming the strength-ductility trade-off by the combination of static recrystallization and low-temperature heat-treatment in Co-Cr-W-Ni alloy for stent application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138400.	2.6	21

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19	Visibleâ€lightâ€responsive antibacterial activity of Auâ€incorporated TiO₂ layers formed on Tiâ€“(0â€“10)at%Au alloys by air oxidation. Journal of Biomedical Materials Research - Part A, 2019, 107, 991-1000.	2.1	12
20	Formation of Photocatalytically Active TiO₂ Layers on Tiâ€“Nb Alloys by Two-Step Thermal Oxidation. Materials Transactions, 2019, 60, 1814-1820.	0.4	4
21	Mechanisms of oxidation of pure and Si-segregated Î±-Ti surfaces. Applied Surface Science, 2019, 463, 686-692.	3.1	8
22	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
23	Synchronous improvement in strength and ductility of biomedical Coâ€“Crâ€“Mo alloys by unique low-temperature heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 53-61.	2.6	16
24	Experimental and theoretical study of the effect of Si on the oxidative behavior of Ti-6Al-4V alloys. Journal of Alloys and Compounds, 2019, 776, 519-528.	2.8	22
25	Microstructural Changes During Plastic Deformation and Corrosion Properties of Biomedical Co-20Cr-15W-10Ni Alloy Heat-Treated at 873ÂK. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2393-2404.	1.1	18
26	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
27	Corrosion resistance and mechanical properties of titanium nitride plating on orthodontic wires. Dental Materials Journal, 2018, 37, 286-292.	0.8	23
28	Preparation of orthophosphate glasses in the MgOâ€“CaOâ€“SiO2â€“Nb2O5â€“P2O5 system. Bio-Medical Materials and Engineering, 2017, 28, 23-30.	0.4	3
29	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
30	In vitro evaluation of Ag-containing calcium phosphates: Effectiveness of Ag-incorporated Î²-tricalcium phosphate. Materials Science and Engineering C, 2017, 75, 926-933.	3.8	31
31	First principles study of oxidation of Si-segregated Î±-Ti(0001) surfaces. Japanese Journal of Applied Physics, 2017, 56, 125701.	0.8	10
32	Effect of Si on the oxidation reaction of Î±-Ti(0â€‰0â€‰0â€‰1) surface: <i>ab initio</i> molecular dynamics study. Science and Technology of Advanced Materials, 2017, 18, 998-1004.	2.8	8
33	Removal of Oxygen in Tiâ€“Si Melts by Arc-Melting. Materials Transactions, 2017, 58, 613-618.	0.4	6
34	TRAV7-2*02 Expressing CD8+ T Cells Are Responsible for Palladium Allergy. International Journal of Molecular Sciences, 2017, 18, 1162.	1.8	10
35	Microstructure and Mechanical Properties of an Î±+Î² Type Ti-4V-0.6O Alloy. Materials Transactions, 2017, 58, 1250-1256.	0.4	5
36	Effects of Mo Addition on the Mechanical Properties and Microstructures of Ti-Mn Alloys Fabricated by Metal Injection Molding for Biomedical Applications. Materials Transactions, 2017, 58, 271-279.	0.4	14

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37	Ceramic Coating of Ti and Its Alloys Using Dry Processes for Biomedical Applications. , 2017, , 23-34.		1
38	Changes in Microstructure of Biomedical Co-Cr-Mo Alloys during Aging at 973 to 1373 K. Materials Transactions, 2016, 57, 2048-2053.	0.4	14
39	The antihistamine olopatadine regulates T cell activation in palladium allergy. International Immunopharmacology, 2016, 35, 70-76.	1.7	8
40	Microstructure and Mechanical Properties of Heat-Treated Co-20Cr-15W-10Ni Alloy for Biomedical Application. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2773-2782.	1.1	21
41	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
42	Effects of Precipitates and Albumin in Simulated Body Fluids on Pin-on-Disk Wear Behavior of Biomedical Co-Cr-Mo Alloys. Materials Transactions, 2016, 57, 2054-2059.	0.4	2
43	Formation of Porous Layer with Low Ni Content on NiTi Substrate by Dealloying in Metallic Melts. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 766-770.	0.1	0
44	Optimization of Microstructure and Mechanical Properties of Coâ€“Crâ€“Mo Alloys by High-Pressure Torsion and Subsequent Short Annealing. Materials Transactions, 2016, 57, 1887-1896.	0.4	10
45	Preparation of Antibacterial ZnO-CaO-P₂O₅-Nb₂O₅ Invert Glasses. Materials Transactions, 2016, 57, 2072-2076.	0.4	15
46	Structure and physicochemical properties of CaOâ€“P2O5â€“Nb2O5â€“Na2O glasses. Journal of Non-Crystalline Solids, 2016, 432, 60-64.	1.5	34
47	Structures and dissolution behaviors of MgOâ€“CaOâ€“P2O5â€“Nb2O5 glasses. Journal of Non-Crystalline Solids, 2016, 438, 18-25.	1.5	22
48	Microstructure and Mechanical Property of α+β Type Ti-(0~10)mass%V-(0.5~1)mass%O Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 60-65.	0.2	6
49	Structure and dissolution behavior of MgO–P₂O₅–TiO₂/Nb<sub>2</su (Mg/P ≥ 1) invert glasses. Journal of the Ceramic Society of Japan, 2015, 123, 942-948.	0.5	17
50	THE ROLE OF NIOBIUM IONS IN CALCIUM PHOSPHATE INVERT GLASSES FOR BONE REGENERATION. Phosphorus Research Bulletin, 2015, 30, 30-34.	0.1	0
51	Evaluation of Photocatalytic Activity of the TiO2 Layer Formed on Ti by Thermal Oxidation. , 2015, , 65-78.		2
52	Structures and dissolution behaviors of CaOâ€“P2O5â€“TiO2/Nb2O5 (Ca/P â‰¥ 1) invert glasses. Journal of Non-Crystalline Solids, 2015, 426, 35-42.	1.5	20
53	Synthesis and characterization of Ag-containing calcium phosphates with various Ca/P ratios. Materials Science and Engineering C, 2015, 53, 111-119.	3.8	36
54	Formation of TiO2 layers on commercially pure Ti and Tiâ€“Mo and Tiâ€“Nb alloys by two-step thermal oxidation and their photocatalytic activity. Applied Surface Science, 2015, 357, 2198-2205.	3.1	15

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55	Co-Cr Alloys as Effective Metallic Biomaterials. Springer Series in Biomaterials Science and Engineering, 2015, , 157-178.	0.7	27
56	Formation of the Ï‡-Phase Precipitate in Co-28Cr-6Mo Alloys with Additional Si and C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4342-4350.	1.1	6
57	Surface Improvement for Biocompatibility of Biomedical Ti Alloy by Dealloying in Metallic Melt. Springer Series in Biomaterials Science and Engineering, 2015, , 153-179.	0.7	1
58	NKG2D+ IFN-Î³+ CD8+ T Cells Are Responsible for Palladium Allergy. PLoS ONE, 2014, 9, e86810.	1.1	23
59	Evaluation of Thin Amorphous Calcium Phosphate Coatings on Titanium Dental Implants Deposited Using Magnetron Sputtering. Implant Dentistry, 2014, 23, 343-350.	1.7	23
60	Preparation of calcium pyrophosphate glass-ceramics containing Nb₂O₅. Journal of the Ceramic Society of Japan, 2014, 122, 122-124.	0.5	12
61	Precipitates in Biomedical Co-Cr Alloys. Jom, 2013, 65, 489-504.	0.9	61
62	Phase and Formation/Dissolution of Precipitates in Biomedical Co-Cr-Mo Alloys with Nitrogen Addition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 494-503.	1.1	14
63	Effect of Ba deoxidation on oxygen content in NiTi alloys and non-metallic inclusions. Journal of Materials Science, 2013, 48, 359-366.	1.7	8
64	Formation of Anatase on Commercially Pure Ti by Two-Step Thermal Oxidation Using N₂–CO Gas. Materials Transactions, 2013, 54, 1302-1307.	0.4	14
65	β-Grain Refinement of α+β-Type Ti–4.5Al–6Nb–2Fe–2Mo Alloy by Using Rare-Earth-Oxide Precipitates. Materials Transactions, 2013, 54, 161-168.	0.4	9
66	Mass Loss and Ion Elution of Biomedical Co–Cr–Mo Alloys during Pin-on-Disk Wear Tests. Materials Transactions, 2013, 54, 1281-1287.	0.4	6
67	Accelerated Bone Formation Around Titanium Dental Implants with Amorphous Calcium Phosphate Coating in Rabbits. , 2012, , 243-245.		0
68	Surface Modification of Titanium for Improvement of the Bone Compatibility by Bioresorbable Calcium Phosphate Coating. Materia Japan, 2012, 51, 424-427.	0.1	0
69	Effects of Niobium Ions Released from Calcium Phosphate Invert Glasses Containing Nb₂O₅ on Osteoblast-Like Cell Functions. ACS Applied Materials & Interfaces, 2012, 4, 5684-5690.	4.0	70
70	Precipitates in Biomedical Co-Cr-Mo-C-N-Si-Mn Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2125-2132.	1.1	13
71	Precipitates in Biomedical Co-28Cr-6Mo-(0â€“0.41)C Alloys Heat-Treated at 1473ÂK to 1623ÂK (1200ÂÂ°C to) Tj ETQq1 1 0.784314 rg 43, 3351-3358.	1.1	24
72	Ï€-Phase and Ï‡-Phase: New Precipitates in Biomedical Coâ€“Crâ€“Mo Alloys. , 2012, , 72-80.		6

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73	Enhancement of nickel elution by lipopolysaccharide-induced inflammation. Journal of Dermatological Science, 2011, 62, 50-7.	1.0	10
74	Anatase formation on titanium by two-step thermal oxidation. Journal of Materials Science, 2011, 46, 2998-3005.	1.7	24
75	Precipitates in As-Cast and Heat-Treated ASTM F75 Co-Cr-Mo-C Alloys Containing Si and/or Mn. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1941-1949.	1.1	29
76	Assessment of the release of nickel from biomaterials in vivo and in vitro: enhancement by lipopolysaccharide. Inflammation and Regeneration, 2011, 31, 302-306.	1.5	2
77	Surface modification of titanium by pack cementation treatment using calcium phosphate powders for biomedical applications. Metals and Materials International, 2010, 16, 569-572.	1.8	2
78	Carbide Formation and Dissolution in Biomedical Co-Cr-Mo Alloys with Different Carbon Contents during Solution Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2129-2138.	1.1	57
79	Fabrication and Evaluation of Multi-layered Calcium Phosphate Coating Film on Titanium. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2010, 57, 314-320.	0.1	1
80	Calcium Phosphate Coating on Titanium Using Dry Process. Materials Science Forum, 2010, 654-656, 2162-2167.	0.3	0
81	Pack Cementation Treatment of Titanium Using Tetracalcium Phosphate Powder for Biomedical Applications. Materials Science Forum, 2010, 654-656, 2172-2175.	0.3	0
82	Preparation of Functionally Graded Bio-Ceramic Film by MOCVD. Materials Science Forum, 2009, 631-632, 193-198.	0.3	2
83	Calcium Phosphate Films with/without Heat Treatments Fabricated Using RF Magnetron Sputtering. Journal of Biomechanical Science and Engineering, 2009, 4, 392-403.	0.1	16
84	Fatigue Behaviors of Ultra Fine Wires of β-Type and α-Type Titanium Alloys. Materials Transactions, 2009, 50, 1713-1719.	0.4	3
85	Precipitation Behavior in a Hanks’ Solution on Ca-P-O Films Prepared by Laser CVD. Materials Transactions, 2009, 50, 2455-2459.	0.4	5
86	Apatite formation behavior on bio-ceramic films prepared by MOCVD. Journal of the Ceramic Society of Japan, 2009, 117, 461-465.	0.5	11
87	Hydroxyapatite Formation on Ca-P-O Coating Prepared by MOCVD. Materials Transactions, 2008, 49, 1848-1852.	0.4	16
88	Fabrication and Evaluation of Calcium Phosphate Coating Films on Blast-treated Ti-6Al-4V Alloy Substrate. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 318-324.	0.1	4
89	Preparation of Ca-Ti-O/Ca-P-O Functionally Graded Bio-ceramic Film by MOCVD. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 325-330.	0.1	2
90	In Vitro Evaluation of RF Magnetron-Sputtered Calcium Phosphate Films on Titanium. Key Engineering Materials, 2007, 352, 305-309.	0.4	1

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91	Hydroxyapatite Formation on MOCVD-CaTiO₃ Coated Ti. Key Engineering Materials, 2007, 352, 301-304.	0.4	5
92	Calcium Phosphate Films Coated on Titanium by RF Magnetron Sputtering for Medical Applications. Materials Science Forum, 2007, 539-543, 551-556.	0.3	4
93	Hydroxyapatite Formation on Calcium Phosphate Coated Titanium. Materials Science Forum, 2007, 561-565, 1513-1516.	0.3	6
94	Evaluation of Calcium Phosphate Coating Films on Titanium Fabricated Using RF Magnetron Sputtering. Materials Transactions, 2007, 48, 307-312.	0.4	34
95	Hydroxyapatite Formation on CaTiO₃ Film Prepared by Metal-Organic Chemical Vapor Deposition. Materials Transactions, 2007, 48, 1505-1510.	0.4	20
96	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
97	Preparation of Calcium Phosphate Films by Radiofrequency Magnetron Sputtering. Materials Transactions, 2005, 46, 2246-2252.	0.4	63
98	Wear Loss and Elution of C.P.Ti and Titanium Alloys in Simulated Body Fluids. Materials Science Forum, 2005, 475-479, 2333-2336.	0.3	3
99	Characterization of Calcium Phosphate Films Prepared by RF Magnetron Sputtering. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	0
100	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
101	Calcium Phosphate Coating on Blast-Treated Titanium Implants by RF Magnetron Sputtering. Materials Science Forum, 0, 631-632, 211-216.	0.3	4
102	Changes in Microstructure of Biomedical Co-Cr-Mo-C Alloys with Solution Treating and Aging. Advanced Materials Research, 0, 89-91, 377-382.	0.3	2
103	Phase and Morphology of Carbides in ASTM F75 Co-Cr-Mo-C Alloys Formed at 1473 to 1623 K. Materials Science Forum, 0, 654-656, 2176-2179.	0.3	4
104	Heat Treatment of ASTM F75 Co-Cr-Mo-C-Si-Mn Alloys. Materials Science Forum, 0, 654-656, 2180-2183.	0.3	8
105	Precipitates in Biomedical Co-Cr-Mo-C-Si-Mn Alloys. Advanced Materials Research, 0, 277, 51-58.	0.3	12
106	Precipitate Phases and Mechanical Properties of Heat-Treated ASTM F 90 Co-Cr-W-Ni Alloy. Key Engineering Materials, 0, 616, 258-262.	0.4	7
107	Improvement of Strength and Ductility by Combining Static Recrystallization and Unique Heat Treatment in Co-20Cr-15W-10Ni Alloy for Stent Application. Materials Science Forum, 0, 1016, 1503-1509.	0.3	0
108	Calcium Phosphate Coating on Titanium by RF Magnetron Sputtering. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 223-233.	0.2	0