

Satoshi Hayakawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2920839/publications.pdf>

Version: 2024-02-01

225
papers

6,986
citations

66250

44
h-index

84171

75
g-index

238
all docs

238
docs citations

238
times ranked

6126
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of the silicon-containing chemical species dissolved from chitosan-siloxane hybrids on nerve cells. Journal of Sol-Gel Science and Technology, 2022, 104, 606-616.	1.1	1
2	Preparation and Drug Release Profile of Chitosan-Siloxane Hybrid Capsules Coated with Hydroxyapatite. Pharmaceutics, 2022, 14, 1111.	2.0	2
3	Blood-compatible ceramic particles, coating layers, and microspheres for blood purification and related applications. , 2021, , 195-243.		0
4	Antibacterial Chitosan Nanofiber Thin Films with Bacitracin Zinc Salt. Polymers, 2021, 13, 1104.	2.0	6
5	Three-dimensional observation and analysis of remineralization in dentinal caries lesions. Scientific Reports, 2020, 10, 4387.	1.6	17
6	Comparative study of in vitro apatite-forming abilities of highly ordered rutile nanorod arrays fabricated on cpTi and Ti6Al4V alloys. Journal of Asian Ceramic Societies, 2020, 8, 29-38.	1.0	2
7	Conversion of sub- μm calcium carbonate (calcite) particles to hollow hydroxyapatite agglomerates in K_2HPO_4 solutions. Nanotechnology Reviews, 2020, 9, 945-960.	2.6	4
8	Atomic level observation and structural analysis of phosphoric-acid ester interaction at dentin. Acta Biomaterialia, 2019, 97, 544-556.	4.1	29
9	Cytocompatible and Antibacterial Properties of Chitosan-Siloxane Hybrid Spheres. Polymers, 2019, 11, 1676.	2.0	3
10	Effect of titanyl sulfate concentration on growth of nanometer-scale rutile rod arrays on the surface of titanium substrate. Journal of the Ceramic Society of Japan, 2019, 127, 545-550.	0.5	1
11	Accelerated induction of <i>in vitro</i> apatite formation by parallel alignment of hydrothermally oxidized titanium substrates separated by sub-millimeter gaps. Journal of Asian Ceramic Societies, 2019, 7, 90-100.	1.0	6
12	The fabrication of nanostructured titania polymorphs layer with high crystallinity and its apatite-forming ability. Surface and Coatings Technology, 2019, 363, 338-343.	2.2	10
13	Chemical interaction of glycerophosphate dimethacrylate (GPDM) with hydroxyapatite and dentin. Dental Materials, 2018, 34, 1072-1081.	1.6	50
14	Etching Efficacy of Self-Etching Functional Monomers. Journal of Dental Research, 2018, 97, 1010-1016.	2.5	75
15	Conversion of silicate glass to highly oriented divalent ion substituted hydroxyapatite nanorod arrays in alkaline phosphate solutions. Ceramics International, 2018, 44, 18719-18726.	2.3	0
16	Alternating Current Electrophoretic Deposition for the Immobilization of Antimicrobial Agents on Titanium Implant Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 8533-8546.	4.0	21
17	Chemical interaction mechanism of 10-MDP with zirconia. Scientific Reports, 2017, 7, 45563.	1.6	144
18	Hydroxyapatites: Key Structural Questions and Answers from Dynamic Nuclear Polarization. Analytical Chemistry, 2017, 89, 10201-10207.	3.2	23

#	ARTICLE	IF	CITATIONS
19	Preparation of chitosan-hydroxyapatite composite mono-fiber using coagulation method and their mechanical properties. <i>Carbohydrate Polymers</i> , 2017, 175, 355-360.	5.1	14
20	Characterization and degradation study of chitosan-siloxane hybrid microspheres synthesized using a microfluidic approach. <i>Materials Science and Engineering C</i> , 2017, 81, 571-579.	3.8	6
21	Fabrication of calcium phosphate nanoparticles in a continuous flow tube reactor. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 101-105.	0.5	11
22	Preparation of Porous Chitosan-Siloxane Hybrids Coated with Hydroxyapatite Particles. <i>BioMed Research International</i> , 2015, 2015, 1-6.	0.9	10
23	Interlaboratory studies on in vitro test methods for estimating in vivo resorption of calcium phosphate ceramics. <i>Acta Biomaterialia</i> , 2015, 25, 347-355.	4.1	24
24	In vitro apatite formation on nano-crystalline titania layer aligned parallel to Ti6Al4V alloy substrates with sub-millimeter gap. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 190.	1.7	5
25	Calcium phosphate crystallization on titania in a flowing Kokubo solution. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 222.	1.7	8
26	Functional monomer impurity affects adhesive performance. <i>Dental Materials</i> , 2015, 31, 1493-1501.	1.6	83
27	The role of hybrid chitosan membranes on scarring process following lumbar surgery: post-laminectomy experimental model. <i>Neurological Research</i> , 2015, 37, 23-29.	0.6	9
28	Preparation and <i>in vitro</i> cytocompatibility of chitosan-siloxane hybrid hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 289-299.	2.1	27
29	Challenges for Nerve Repair Using Chitosan-Siloxane Hybrid Porous Scaffolds. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	16
30	Furthering the understanding of silicate-substitution in β -tricalcium phosphate: An X-ray diffraction, X-ray fluorescence and solid-state nuclear magnetic resonance study. <i>Acta Biomaterialia</i> , 2014, 10, 1443-1450.	4.1	20
31	Liquid phase deposited titania coating to enable in vitro apatite formation on Ti6Al4V alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 375-381.	1.7	14
32	The role of the chemical composition of monetite on the synthesis and properties of β -tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2014, 34, 123-129.	3.8	35
33	Novel Fluoro-carbon Functional Monomer for Dental Bonding. <i>Journal of Dental Research</i> , 2014, 93, 189-194.	2.5	22
34	Biomedical Applications of Sol-Gel Nanocomposites. , 2014, , 167-190.		0
35	TiO ₂ -based superhydrophobicâ€“superhydrophilic pattern with an extremely high wettability contrast. <i>Thin Solid Films</i> , 2014, 558, 221-226.	0.8	45
36	Revisiting structure of silica gels from water glass: an ¹ H and ²⁹ Si MAS and CP-MAS NMR study. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 135-142.	1.1	10

#	ARTICLE	IF	CITATIONS
37	Aluminium-free glass polyalkenoate cements: ion release and in vitro antibacterial efficacy. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1167-1178.	1.7	6
38	Adhesive interfacial interaction affected by different carbon-chain monomers. <i>Dental Materials</i> , 2013, 29, 888-897.	1.6	83
39	In vitro cytocompatibility of microspheres derived from chitosan-silicate hybrids. , 2013, , .		0
40	Nucleation and growth of apatite on an anatase layer irradiated with UV light under different environmental conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 712-719.	2.1	18
41	Heterogeneous structure and in vitro degradation behavior of wet-chemically derived nanocrystalline silicon-containing hydroxyapatite particles. <i>Acta Biomaterialia</i> , 2013, 9, 4856-4867.	4.1	43
42	Preparation of injectable hydroxyapatite/collagen paste using sodium alginate and influence of additives. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 775-781.	0.5	11
43	Sol-gel-Derived Silicate Nano-Hybrids for Biomedical Applications. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1683-1687.	0.6	8
44	Sol-gel preparation of apatite-coated silica microspheres from water glass and their adsorption of bovine serum albumin and lysozyme. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 355-361.	0.5	5
45	Electrospun poly(vinyl alcohol) as a template of silica hollow and solid micro-fibrous mats. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 520-524.	0.5	5
46	Self-assembled Nano-layering at the Adhesive Interface. <i>Journal of Dental Research</i> , 2012, 91, 376-381.	2.5	284
47	HEMA Inhibits Interfacial Nano-layering of the Functional Monomer MDP. <i>Journal of Dental Research</i> , 2012, 91, 1060-1065.	2.5	107
48	Characterization of hybrid composite membrane based polymer/precursor/SiO ₂ . <i>Materials Letters</i> , 2012, 81, 88-91.	1.3	7
49	Use of hybrid chitosan membranes and human mesenchymal stem cells from the Wharton jelly of umbilical cord for promoting nerve regeneration in an axonotmesis rat model. <i>Neural Regeneration Research</i> , 2012, 7, 2247-58.	1.6	27
50	BMP-2-loaded silica nanotube fibrous meshes for bone generation. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 065003.	2.8	14
51	Self-etch Monomer-Calcium Salt Deposition on Dentin. <i>Journal of Dental Research</i> , 2011, 90, 602-606.	2.5	93
52	Fabrication of hydroxyapatite with controlled morphology in a micro-reactor. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 116-119.	0.5	8
53	Effect of Disordered Structure of Boron-Containing Calcium Phosphates on their In Vitro Biodegradability. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2656-2662.	1.9	33
54	Nanolayering of phosphoric acid ester monomer on enamel and dentin. <i>Acta Biomaterialia</i> , 2011, 7, 3187-3195.	4.1	168

#	ARTICLE	IF	CITATIONS
55	The Effect of Si(IV) Species Derived from Chitosan-Silicate Hydrogels on Osteoblast Behavior. Key Engineering Materials, 2011, 493-494, 698-702.	0.4	2
56	Preparation of osteocompatible Si(IV)-enriched chitosan-silicate hybrids. Journal of the Ceramic Society of Japan, 2010, 118, 989-992.	0.5	23
57	Enhancement of apatite-forming ability of parallelly aligned Ti-substrates with optimum gaps by autoclaving. Journal of the Ceramic Society of Japan, 2010, 118, 483-486.	0.5	17
58	Effects of UV-irradiation on in vitro apatite-forming ability of TiO ₂ layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 213-215.	1.7	13
59	Nano-controlled molecular interaction at adhesive interfaces for hard tissue reconstruction. Acta Biomaterialia, 2010, 6, 3573-3582.	4.1	208
60	Morphology and structure of organosilica hybrid particles derived from tetramethoxysilane and vinyltrimethoxysilane via a catalyst-free sol-gel route. Journal of Materials Chemistry, 2010, 20, 7337.	6.7	13
61	Synthesis of Bioactive HEMA-MPS-CaCl ₂ Hybrid Gels: Effects of Catalysts in the Sol-Gel Processing on Mechanical Properties and in vitro Hydroxyapatite Formation in a Simulated Body Fluid. Journal of Biomaterials Applications, 2009, 23, 519-532.	1.2	6
62	XPS study on potential suppression factors of suppressing in vitro apatite formation on anatase films prepared on various substrates. Surface and Coatings Technology, 2009, 203, 2181-2185.	2.2	6
63	Effect of spatial design and thermal oxidation on apatite formation on Ti-15Zr-4Ta-4Nb alloy. Acta Biomaterialia, 2009, 5, 298-304.	4.1	52
64	Physical, chemical and in vitro biological profile of chitosan hybrid membrane as a function of organosiloxane concentration. Acta Biomaterialia, 2009, 5, 346-355.	4.1	99
65	Sol-Gel Synthesis and Microstructure Analysis of Amino-Modified Hybrid Silica Nanoparticles from Aminopropyltriethoxysilane and Tetraethoxysilane. Journal of the American Ceramic Society, 2009, 92, 2074-2082.	1.9	67
66	Preparation of nanometer-scale rod array of hydroxyapatite crystal. Acta Biomaterialia, 2009, 5, 2152-2160.	4.1	47
67	Surface, Interface, and Bulk Structure of Borate Containing Apatitic Biomaterials. Chemistry of Materials, 2009, 21, 3102-3109.	3.2	24
68	Analysis of ³¹ P-irradiated synthetic bone grafts by ²⁹ Si MAS-NMR spectroscopy, calorimetry and XRD. Journal of Non-Crystalline Solids, 2009, 355, 2285-2288.	1.5	14
69	Induced deposition of bone-like hydroxyapatite on thermally oxidized titanium substrates using a spatial gap in a solution that mimics a body fluid. Journal of the Ceramic Society of Japan, 2009, 117, 515-520.	0.5	28
70	Pore Structure of Hard Carbon Made from Phenolic Resin Studied by ¹²⁹ Xe NMR. Bulletin of the Chemical Society of Japan, 2009, 82, 1232-1239.	2.0	6
71	Structure and morphology of aminopropyltriethoxysilane-modified TiO ₂ nano-particles derived from sol-gel processing of tetraethylorthotitanate. Journal of the Ceramic Society of Japan, 2009, 117, 537-541.	0.5	0
72	Biodegradable Chitosan-Silicate Porous Hybrids for Drug Delivery. Key Engineering Materials, 2008, 361-363, 1219-1222.	0.4	9

#	ARTICLE	IF	CITATIONS
73	Preparation and Characterization of Boron-Containing Hydroxyapatite. Key Engineering Materials, 2008, 361-363, 191-194.	0.4	11
74	Bilirubin adsorption property of sol-gel-derived titania particles for blood purification therapy. Acta Biomaterialia, 2008, 4, 1067-1072.	4.1	33
75	Synthesis and cytocompatibility of porous chitosan-silicate hybrids for tissue engineering scaffold application. Chemical Engineering Journal, 2008, 137, 122-128.	6.6	76
76	Microstructure evolution in Stober-type silica nanoparticles and their in vitro apatite deposition. Journal of Sol-Gel Science and Technology, 2008, 48, 322-335.	1.1	41
77	Novel fabrication of nano-rod array structures on titanium and in vitro cell responses. Journal of Materials Science: Materials in Medicine, 2008, 19, 2735-2741.	1.7	6
78	Revisiting silicate substituted hydroxyapatite by solid-state NMR. Magnetic Resonance in Chemistry, 2008, 46, 342-346.	1.1	48
79	Modification of Ti implant surface for cell proliferation and cell alignment. Journal of Biomedical Materials Research - Part A, 2008, 84A, 988-993.	2.1	12
80	Low density lipoprotein adsorption on sol-gel derived alumina for blood purification therapy. Bio-Medical Materials and Engineering, 2008, 18, 161-170.	0.4	5
81	A NMR Investigation of Borate Incorporation in Apatitic Biomaterials. Key Engineering Materials, 2008, 396-398, 205-208.	0.4	2
82	Enhancement of in vitro apatite-forming ability of thermally oxidized titanium surfaces by ultraviolet irradiation. Journal of the Ceramic Society of Japan, 2008, 116, 530-535.	0.5	18
83	Novel One-pot Sol-Gel Preparation of Amino-functionalized Silica Nanoparticles. Chemistry Letters, 2008, 37, 1170-1171.	0.7	19
84	Surface Topography Designed to Provide Osteoconductivity to Titanium after Thermal Oxidation. Materials Transactions, 2008, 49, 428-434.	0.4	28
85	Gelatin-Siloxane Hybrid Scaffolds with Vascular Endothelial Growth Factor Induces Brain Tissue Regeneration. Current Neurovascular Research, 2008, 5, 112-117.	0.4	16
86	Gap Effect on the Heterogeneous Nucleation of Apatite on Thermally Oxidized Titanium Substrate. Key Engineering Materials, 2007, 361-363, 621-624.	0.4	10
87	Synthesis and Characterization of Mg-Containing Nano-Apatite. Key Engineering Materials, 2007, 361-363, 47-50.	0.4	3
88	Enhanced In Vitro Apatite-Forming Ability of Sol-Gel Derived Titania Films by Ultraviolet Irradiation. Key Engineering Materials, 2007, 361-363, 601-604.	0.4	2
89	Sol-Gel Synthesis and In Vitro Cell Compatibility Analysis of Silicate-Containing Biodegradable Hybrid Gels. Key Engineering Materials, 2007, 361-363, 447-450.	0.4	7
90	Preparation of Porous Organically-Modified Silicate Hybrids for Cell Culture Matrix. Key Engineering Materials, 2007, 330-332, 1177-1180.	0.4	3

#	ARTICLE	IF	CITATIONS
91	Bonelike Apatite Formation on Synthetic Organic Polymers and Fiber Coated with Titania. Key Engineering Materials, 2007, 330-332, 679-682.	0.4	0
92	In Vitro Apatite-Forming Ability of Titania Films Depends on Their Substrates. Key Engineering Materials, 2007, 330-332, 633-636.	0.4	5
93	Cell Proliferation on Titania Layer with In Vitro Apatite Forming Ability. Key Engineering Materials, 2007, 330-332, 131-134.	0.4	0
94	Preparation of Hydroxyapatite / Titania Double Layer Coating on Poly-L-lactide due to Hydrolysis of Titanium Tetrachloride. Key Engineering Materials, 2007, 330-332, 687-690.	0.4	0
95	Hybrid Chitosan Membranes Tested in Sheep for Guided Tissue Regeneration. Key Engineering Materials, 2007, 361-363, 1265-1268.	0.4	4
96	Structure and In Vitro Solubility of Silicon-Substituted Hydroxyapatite. Key Engineering Materials, 2007, 361-363, 63-66.	0.4	6
97	Structural Characterization and Protein Adsorption Property of Hydroxyapatite Particles Modified With Zinc Ions. Journal of the American Ceramic Society, 2007, 90, 565-569.	1.9	44
98	Vascular endothelial growth factor promotes brain tissue regeneration with a novel biomaterial polydimethylsiloxane- α -tetraethoxysilane. Brain Research, 2007, 1132, 29-35.	1.1	33
99	Anatase/rutile dual layer deposition due to hydrolysis of titanium oxysulfate with hydrogen peroxide solution at low temperature. Journal of Materials Science, 2007, 42, 6339-6346.	1.7	4
100	Low-temperature deposition of rutile film on biomaterials substrates and its ability to induce apatite deposition in vitro. Journal of Materials Science: Materials in Medicine, 2007, 18, 1529-1536.	1.7	20
101	Chemical Interaction of Phosphoric Acid Ester with Hydroxyapatite. Journal of Dental Research, 2006, 85, 941-944.	2.5	262
102	In vivo Performance of Biodegradable Calcium Phosphate Glass Ceramics using the Rabbit Model: Histological and SEM Observation. Journal of Biomaterials Applications, 2006, 20, 253-266.	1.2	17
103	Selective Protein Adsorption Property and Structure of Nano-Crystalline Hydroxy-Carbonate Apatite. Key Engineering Materials, 2006, 309-311, 503-506.	0.4	11
104	Apatite Formation on Rutile and Anatase Layers Derived by Hydrolysis of Titanyl sulfate in a Simulated Body Fluid. Journal of the Ceramic Society of Japan, 2006, 114, 253-258.	1.3	3
105	Cytocompatibility of Silicone Elastomer Grafted with γ -Methacryloxypropyltrimethoxysilane. Journal of the Ceramic Society of Japan, 2006, 114, 72-76.	1.3	5
106	Synthesis and Structural Characterization of Silica-Hybridized Hydroxyapatite with Gas Adsorption Capability. Journal of the Ceramic Society of Japan, 2006, 114, 769-773.	1.3	13
107	Implantation of a New Porous Gelatin- α -Siloxane Hybrid into a Brain Lesion as a Potential Scaffold for Tissue Regeneration. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1263-1273.	2.4	69
108	Selective protein adsorption property and characterization of nano-crystalline zinc-containing hydroxyapatite. Acta Biomaterialia, 2006, 2, 69-74.	4.1	166

#	ARTICLE	IF	CITATIONS
109	Wet deposition of titania-apatite composite in cotton fibrils. Journal of Sol-Gel Science and Technology, 2006, 40, 253-258.	1.1	3
110	³¹ P MAS-NMR Studies of CaO-P ₂ O ₅ Glass Ceramics. Key Engineering Materials, 2006, 309-311, 301-304.	0.4	1
111	In Vitro Bioactivity of Hydrogen Peroxide Modified Titanium: Effects of Surface Morphology and Film Thickness. Key Engineering Materials, 2006, 309-311, 407-410.	0.4	8
112	Direct Deposition of a Rutile Layer on Polymer Substrates to Induce Bioactivity In Vitro. Key Engineering Materials, 2006, 309-311, 419-422.	0.4	6
113	Characterization of Sol-Gel Derived Titania Films on Titanium and Biomimetic Apatite-Formation. Key Engineering Materials, 2006, 309-311, 717-722.	0.4	3
114	Preparation of Aluminum Oxide-Hybridized Hydroxyapatite Powder by the Sol-Gel Method. Journal of the Ceramic Society of Japan, 2005, 113, 241-244.	1.3	2
115	In vitro cytocompatibility of MG63 cells on chitosan-organosiloxane hybrid membranes. Biomaterials, 2005, 26, 485-493.	5.7	160
116	An organic-inorganic hybrid scaffold for the culture of HepG2 cells in a bioreactor. Biomaterials, 2005, 26, 2509-2516.	5.7	69
117	Blood Compatibility of Organic-Inorganic Biomedical Materials. Key Engineering Materials, 2005, 284-286, 713-716.	0.4	0
118	In Vitro Biodegradability of Chitosan-Organosiloxane Hybrid Membrane. Key Engineering Materials, 2005, 284-286, 823-826.	0.4	6
119	Conformational Change of Protein due to Contact with Bioceramic Materials. Key Engineering Materials, 2005, 284-286, 517-520.	0.4	1
120	In vitro apatite formation on organic polymers modified with a silane coupling reagent. Journal of the Royal Society Interface, 2005, 2, 335-340.	1.5	13
121	Large-Scale Preparation of Ordered Titania Nanorods with Enhanced Photocatalytic Activity. Langmuir, 2005, 21, 6995-7002.	1.6	185
122	Self-organized Lattice Control of Hydroxyapatite and Adsorption Property of Bioactive Substance. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2005, 13, 117-121.	0.0	0
123	Platelet Adhesion on Metal Oxide Layers. Key Engineering Materials, 2004, 254-256, 853-856.	0.4	2
124	Control of Morphology of Titania Film with High Apatite-Forming Ability Derived from Chemical Treatments of Titanium with Hydrogen Peroxide. Key Engineering Materials, 2004, 254-256, 443-446.	0.4	1
125	In Vitro Cytocompatibility of Osteoblastic Cells Cultured on Chitosan-Organosiloxane Hybrid Membrane. Key Engineering Materials, 2004, 254-256, 857-860.	0.4	2
126	Formation of Titania Submicron-Scale Rod Arrays on Titanium Substrate and <i>In Vitro</i> Biocompatibility. Materials Research Society Symposia Proceedings, 2004, 845, 281.	0.1	3

#	ARTICLE	IF	CITATIONS
127	Low Temperature Preparation of Anatase and Rutile Layers on Titanium Substrates and Their Ability To Induce in Vitro Apatite Deposition. Journal of the American Ceramic Society, 2004, 87, 1635-1642.	1.9	160
128	Synthesis of Blood Compatible PDMS-Based Organic-Inorganic Hybrid Coatings. Journal of Sol-Gel Science and Technology, 2004, 31, 273-276.	1.1	19
129	Platelet adhesion on titanium oxide gels: effect of surface oxidation. Biomaterials, 2004, 25, 3485-3492.	5.7	107
130	Synthesis of Bioactive and Porous Organic-Inorganic Hybrids for Biomedical Applications. Journal of Sol-Gel Science and Technology, 2004, 32, 201-205.	1.1	23
131	Selective protein adsorption and blood compatibility of hydroxy-carbonate apatites. Journal of Biomedical Materials Research Part B, 2004, 69A, 544-551.	3.0	77
132	Preparation of organotitanium molecular layers for biomedical applications. Materials Science and Engineering C, 2004, 24, 901-905.	3.8	6
133	TITANIA DERIVED FROM COMBINED CHEMICAL AND THERMAL TREATMENTS OF TITANIUM: <I>IN VITRO</I> APATITE FORMING ABILITY. Phosphorus Research Bulletin, 2004, 17, 130-141.	0.1	23
134	In Vitro Bioactive Nano-Crystalline TiO ₂ Layers Grown at Glass-Coating/Titanium Interface. Journal of the Ceramic Society of Japan, 2004, 112, 452-457.	1.3	5
135	Potassium Titanate Nanorod Arrays Grown on Titanium Substrates and Their in vitro Bioactivity. Journal of the Ceramic Society of Japan, 2004, 112, 634-640.	1.3	9
136	Topotaxial Nucleation and Growth of TiO ₂ Submicron-Scale Rod Arrays on Titanium Substrates via Sodium Tetraborate Glass Coating. Journal of the Ceramic Society of Japan, 2004, 112, 567-571.	1.3	12
137	Bioactivity of metallic biomaterials with anatase layers deposited in acidic titanium tetrafluoride solution. Journal of Materials Science: Materials in Medicine, 2003, 14, 1027-1032.	1.7	33
138	Synthesis of PDMS-Based Porous Materials for Biomedical Applications. Journal of Sol-Gel Science and Technology, 2003, 26, 1219-1222.	1.1	62
139	In vitro Evaluation of Osteoblast Response to Sol-Gel Derived Gelatin-Siloxane Hybrids. Journal of Sol-Gel Science and Technology, 2003, 26, 1137-1140.	1.1	20
140	In vitro apatite deposition on titania film derived from chemical treatment of Ti substrates with an oxysulfate solution containing hydrogen peroxide at low temperature. Thin Solid Films, 2003, 441, 271-276.	0.8	70
141	Preparation of alginate acid layers on stainless-steel substrates for biomedical applications. Biomaterials, 2003, 24, 2889-2894.	5.7	71
142	Apatite deposition on thermally and anodically oxidized titanium surfaces in a simulated body fluid. Biomaterials, 2003, 24, 4631-4637.	5.7	139
143	Deactivation of Active Oxygen Species due to Metals and their Blood Compatibility. Key Engineering Materials, 2003, 240-242, 105-110.	0.4	0
144	Low Temperature Deposition of Bioactive Crystalline Titania Films: Effects of Tantalum. Key Engineering Materials, 2003, 240-242, 533-536.	0.4	1

#	ARTICLE	IF	CITATIONS
145	Platelet Adhesion on Titania Film Prepared from Interaction of Ni-Ti Alloy with Hydrogen Peroxide Solution. Key Engineering Materials, 2003, 254-256, 865-868.	0.4	2
146	Cytocompatibility on Silicone Modified with Organoalkoxysilane due to Emulsion Polymerization. Key Engineering Materials, 2003, 240-242, 687-690.	0.4	0
147	Biomimetic Apatite Deposition on Titanium Substrates Treated with Low Concentrations H ₂ O ₂ Solutions. Key Engineering Materials, 2003, 240-242, 55-58.	0.4	4
148	Low Temperature Synthesis of Bioactive TiO ₂ Thin Film by Two-Step Treatment. Key Engineering Materials, 2003, 240-242, 537-540.	0.4	2
149	Response to Osteoblastic Cells of Bioactive Organic-Inorganic Hybrid. Key Engineering Materials, 2003, 240-242, 683-686.	0.4	0
150	Bioactivity of Viscoelastic Ormosil-Type Organic-Inorganic Hybrids Containing Colloidal Silica Particles. Journal of the Ceramic Society of Japan, 2003, 111, 318-322.	1.3	4
151	Sol-Gel Preparation of Blood-Compatible Titania as an Adsorbent of Bilirubin. Journal of the Ceramic Society of Japan, 2003, 111, 645-650.	1.3	13
152	Mechanical Property and Microstructure of Bioactive Organic-Inorganic Hybrids Containing Colloidal Silica Particles. Journal of the Ceramic Society of Japan, 2003, 111, 247-251.	1.3	3
153	Structure and Biomineralization of Calcium Silicate Glasses Containing Fluoride Ions. Journal of the Ceramic Society of Japan, 2003, 111, 762-766.	1.3	14
154	Crystallization of Anatase from Amorphous Titania in Hot Water and In Vitro Biomineralization.. Journal of the Ceramic Society of Japan, 2002, 110, 78-80.	1.3	24
155	Blood Compatibility of Metal Oxide Layers on Stainless-steel. Materials Research Society Symposia Proceedings, 2002, 734, 9471.	0.1	1
156	Blood Compatibility of Stainless-Steel and Titanium Immobilized with Alginic Acid Layers. Materials Research Society Symposia Proceedings, 2002, 734, 9481.	0.1	1
157	Nanocrystalline Titania Made from Interactions of Ti with Hydrogen Peroxide Solutions Containing Tantalum Chloride. Crystal Growth and Design, 2002, 2, 147-149.	1.4	25
158	Porous titania films prepared from interactions of titanium with hydrogen peroxide solution. Scripta Materialia, 2002, 46, 101-106.	2.6	85
159	Soft solution approach to prepare crystalline titania films. Scripta Materialia, 2002, 46, 705-709.	2.6	27
160	Mechanical properties and microstructure of bioactive ORMOSILs containing silica particles. Materials Science and Engineering C, 2002, 20, 195-198.	3.8	12
161	Bioactive titania gel layers formed by chemical treatment of Ti substrate with a H ₂ O ₂ /HCl solution. Biomaterials, 2002, 23, 1353-1357.	5.7	247
162	Novel approach to fabricate porous gelatin-siloxane hybrids for bone tissue engineering. Biomaterials, 2002, 23, 4765-4773.	5.7	214

#	ARTICLE	IF	CITATIONS
163	In vitro bioactivity of anatase film obtained by direct deposition from aqueous titanium tetrafluoride solutions. <i>Thin Solid Films</i> , 2002, 414, 275-280.	0.8	42
164	Biomimetic Deposition of Apatite on Electrochemically Oxidized Titanium Substrates. <i>Key Engineering Materials</i> , 2001, 192-195, 263-266.	0.4	0
165	Biomimetic Deposition of Calcium Phosphate on Thermally Oxidized Titanium and PTFE Substrates. <i>Key Engineering Materials</i> , 2001, 192-195, 291-294.	0.4	0
166	Sol-gel preparation and in vitro deposition of apatite on porous gelatin-siloxane hybrids. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 116-122.	1.5	60
167	Kinetics of Apatite Deposition of Silica Gel Dependent on the Inorganic Ion Composition of Simulated Body Fluids.. <i>Journal of the Ceramic Society of Japan</i> , 2001, 109, 412-418.	1.3	20
168	Incorporation of Ca ²⁺ Ions in Gelatin-Siloxane Hybrids Through a Sol-Gel Process.. <i>Journal of the Ceramic Society of Japan</i> , 2001, 109, 406-411.	1.3	13
169	In vivo evaluation of bone-bonding of titanium metal chemically treated with a hydrogen peroxide solution containing tantalum chloride. <i>Biomaterials</i> , 2001, 22, 875-881.	5.7	71
170	A comparative study of in vitro apatite deposition on heat-, H ₂ O ₂ -, and NaOH-treated titanium surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 172-178.	3.0	157
171	Synthesis and In Vitro Behavior of Organically Modified Silicate Containing Ca Ions. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 21, 89-96.	1.1	52
172	Synthesis and Characterization of Gelatin-Siloxane Hybrids Derived through Sol-Gel Procedure. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 21, 115-121.	1.1	89
173	Highly Blood Compatible Titania Gel. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 21, 97-104.	1.1	25
174	¹²⁵ Te, ²⁷ Al, and ⁷¹ Ga NMR Study of M ₂ O ₃ ?TeO ₂ (M = Al and Ga) Glasses. <i>Journal of the American Ceramic Society</i> , 2001, 84, 836-842.	1.9	33
175	Synthesis of Carbonate-Hydroxy Apatite and Selective Adsorption Activity against Specific Pathogenic Substances. <i>Key Engineering Materials</i> , 2001, 218-220, 175-178.	0.4	4
176	Apatite Induction on Titania due to Combined Chemical and Thermal Treatments of Titanium. <i>Key Engineering Materials</i> , 2001, 218-220, 71-74.	0.4	1
177	Heating Effect on Properties of Organic-Inorganic Hybrids Containing Colloidal Silica Particles. <i>Key Engineering Materials</i> , 2001, 218-220, 445-448.	0.4	0
178	In Vitro Evaluation on Bone-Bonding of Chemically Modified Titanium. <i>Key Engineering Materials</i> , 2001, 218-220, 141-144.	0.4	1
179	Improvement of bioactivity of H ₂ O ₂ /TaCl ₅ -treated titanium after subsequent heat treatments. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 171-176.	3.0	163
180	Synthesis of Bioactive Organic-Inorganic Hybrids with ¹³ C-Methacryloxypropyltrimethoxysilane. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 745-748.	1.1	29

#	ARTICLE	IF	CITATIONS
181	In vitro Apatite Deposition and Biodegradation of Porous Gelatin-Silicate Hybrids Derived from Sol-Gel Process. Materials Research Society Symposia Proceedings, 2000, 628, 1.	0.1	0
182	¹²⁵ Te and ⁵¹ V static NMR study of V ₂ O ₅ -TeO ₂ glasses. Journal of Physics Condensed Matter, 2000, 12, 2579-2595.	0.7	33
183	Blood Compatibility and Protein Adsorption Characteristics of Sol-Gel Derived Titania. Key Engineering Materials, 2000, 192-195, 889-892.	0.4	2
184	Structure of lead oxyfluorosilicate glasses: X-ray photoelectron and nuclear magnetic resonance spectroscopy and molecular dynamics simulation. Journal of Non-Crystalline Solids, 2000, 272, 103-118.	1.5	38
185	Biomimetic deposition of calcium phosphates on oxides soaked in a simulated body fluid. Journal of Non-Crystalline Solids, 2000, 263-264, 409-415.	1.5	18
186	AM1 study on infra-red spectra of silica clusters modified by fluorine. Journal of Non-Crystalline Solids, 2000, 262, 264-270.	1.5	61
187	Part 1. ¹²⁵ Te NMR study of tellurite crystals. Journal of Non-Crystalline Solids, 1999, 243, 1-12.	1.5	54
188	Part 2. ¹²⁵ Te NMR study of M ₂ O•TeO ₂ (M=Li, Na, K, Rb and Cs) glasses. Journal of Non-Crystalline Solids, 1999, 243, 13-25.	1.5	117
189	Surface Modification Of Polymers With Grafting And Coating Of Silane Hybrids And Their Bioactivity. Materials Research Society Symposia Proceedings, 1999, 576, 377.	0.1	4
190	¹²⁵ Te NMR Study of MO-TeO ₂ (M=Mg, Zn, Sr, Ba and Pb) Glasses.. Journal of the Ceramic Society of Japan, 1999, 107, 395-402.	1.3	26
191	Mechanism of Apatite Formation on a Sodium Silicate Glass in a Simulated Body Fluid. Journal of the American Ceramic Society, 1999, 82, 2155-2160.	1.9	94
192	In vitro BIOACTIVITY OF TITANIA GEL LAYERS FORMED BY REACTION BETWEEN TITANIUM SUBSTRATE AND AN H ₂ O ₂ /TaCl ₅ SOLUTION. , 1999, , .		2
193	SYNTHESIS OF BLOOD COMPATIBLE CERAMIC POWDERS AND NEW METHODS OF EXAMINING ANTI CLOTTING PROPERTIES. , 1999, , .		2
194	SYNTHESIS OF BIOACTIVE ORGANIC-INORGANIC HYBRIDS REINFORCED WITH AEROSIL®. , 1999, , .		2
195	Bioactive Gel Coatings Derived from Vinyltrimethoxysilane. Journal of Sol-Gel Science and Technology, 1998, 13, 237-240.	1.1	19
196	Ultrasonic implantation of calcium metasilicate glass particles into PMMA. Journal of Materials Science: Materials in Medicine, 1998, 9, 479-484.	1.7	15
197	Molecular dynamic simulation of heterogeneity and chemical states of fluorine in amorphous alkaline earth silicate systems. Computational Materials Science, 1998, 9, 337-342.	1.4	6
198	Molecular orbital models of silica clusters modified by fluorine. Journal of Non-Crystalline Solids, 1998, 242, 131-140.	1.5	10

#	ARTICLE	IF	CITATIONS
199	An x-ray photoelectron spectroscopic study of the chemical states of fluorine atoms in calcium silicate glasses. <i>Journal of Materials Research</i> , 1998, 13, 739-743.	1.2	29
200	Properties of Alumina-Zirconia Powder Prepared from Aluminium Chelate Compound and Zirconium Alkoxide. <i>Journal of the Ceramic Society of Japan</i> , 1998, 106, 155-159.	1.3	4
201	BIOMIMETIC COATING OF BONE-LIKE APATITE ON GLASS BEADS. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 1998, 47, 60-63.	0.1	1
202	Spray Pyrolysis Preparation of Apatite-Composite Particles for Biological Application. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 655-661.	1.1	0
203	Spray pyrolysis preparation of apatite-composite particles for biological application. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 655-661.	1.1	6
204	Bioactivity of titanium treated with hydrogen peroxide solutions containing metal chlorides. , 1997, 35, 39-47.		219
205	Coagulation times of blood in contact with gel-derived silica-alumina composite powders. , 1997, , 527-530.		1
206	Bioactivity and structure of organically modified silicate synthesized by the sol-gel method. , 1997, , 33-36.		1
207	Effect of multivalent cations in calcium silicate glasses on bioactivity. , 1997, , 41-44.		0
208	³¹ P MAS-NMR Studies of Phosphate Salts Formation on Calcium-Containing Oxide Glasses in a Simulated Body Fluid. <i>Journal of the Ceramic Society of Japan</i> , 1996, 104, 1000-1003.	1.3	15
209	IR and NMR structural studies on lead vanadate glasses. <i>Journal of Non-Crystalline Solids</i> , 1995, 183, 73-84.	1.5	51
210	⁵¹ V NMR Studies of Crystalline Monovalent and Divalent Metal Metavanadates. <i>Journal of Solid State Chemistry</i> , 1994, 112, 329-339.	1.4	34
211	Structural Studies on Alkaline Earth Vanadate Glasses (Part 1). <i>Journal of the Ceramic Society of Japan</i> , 1994, 102, 522-529.	1.3	15
212	Structural Studies on Alkaline Earth Vanadate Glasses (Part 2). <i>Journal of the Ceramic Society of Japan</i> , 1994, 102, 530-536.	1.3	16
213	⁵¹ V NMR Studies of Crystalline Divalent Metal Vanadates and Divanadates. <i>Bulletin of the Chemical Society of Japan</i> , 1993, 66, 3393-3400.	2.0	30
214	Medical Applications of Hybrid Materials. , 0, , 301-335.		0
215	Cell Proliferation and Tissue Compatibility of Organic-Inorganic Hybrid Materials. <i>Key Engineering Materials</i> , 0, 377, 167-180.	0.4	5
216	One-Step Preparation of Organosiloxane-Derived Silica Particles. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 1-15.	0.1	0

#	ARTICLE	IF	CITATIONS
217	Acceleration of Apatite Nucleation on Parallel Aligned Ti-Substrates with Optimum Gaps by UV-Light Pre-Irradiation. Key Engineering Materials, 0, 493-494, 936-939.	0.4	0
218	Heterogeneous Structure of Hydroxyapatite and <i>In Vitro</i> Biodegradability. Key Engineering Materials, 0, 529-530, 70-73.	0.4	1
219	Sol-Gel Preparation of HAp-Coated Silica Macrospheres from Water Glass and their Protein Adsorption. Key Engineering Materials, 0, 529-530, 637-640.	0.4	0
220	Nerve Regeneration by Using of Chitosan-Silicate Hybrid Porous Membranes. Key Engineering Materials, 0, 529-530, 361-364.	0.4	1
221	NMR Structural Characterization of Mg-Containing Nano-Apatite. Key Engineering Materials, 0, 631, 57-60.	0.4	0
222	Preparation and Biomineralization of Silica-Based Organic-Inorganic Hybrid Hollow Nanoparticles for Bone Tissue Generation. Ceramic Engineering and Science Proceedings, 0, , 19-26.	0.1	1
223	Hydroxyapatite Hybridized with Metal Oxides for Biomedical Applications. Ceramic Engineering and Science Proceedings, 0, , 39-47.	0.1	0
224	Bioactive Titania Gel Derived from Combined Chemical and Thermal Treatments of Titanium. , 0, , 227-232.		1
225	Ultraviolet Irradiation had Limited Effects on Enhancing in Vitro Apatite Formation on Sol-Gel Derived Titania Films. Ceramic Engineering and Science Proceedings, 0, , 199-210.	0.1	0