

# Atsuo Ito

## List of Publications by Citations

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203  
papers

6,539  
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208  
ext. papers

7,109  
ext. citations

5.6  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
203	Cluster Growth Model for Hydroxyapatite. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 3346-3351	9.6	277
202	Preparation, solubility, and cytocompatibility of zinc-releasing calcium phosphate ceramics. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 50, 178-83		236
201	Zinc-releasing calcium phosphate for stimulating bone formation. <i>Materials Science and Engineering C</i> , <b>2002</b> , 22, 21-25	8.3	215
200	Sol-Gel Synthesis of Amorphous Calcium Phosphate and Sintering into Microporous Hydroxyapatite Bioceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1421-1428	3.8	179
199	Stimulatory effect of zinc-releasing calcium phosphate implant on bone formation in rabbit femora. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 50, 184-90		178
198	Simple surface modification of poly(epsilon-caprolactone) for apatite deposition from simulated body fluid. <i>Biomaterials</i> , <b>2005</b> , 26, 2407-13	15.6	169
197	Formation and growth of clusters in conventional and new kinds of simulated body fluids. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 64, 339-48		160
196	Biomimetic Coating of Laminin/Apatite Composite on Titanium Metal and Its Excellent Cell-Adhesive Properties. <i>Advanced Materials</i> , <b>2004</b> , 16, 1071-1074	24	145
195	Inhibitory Effect of Magnesium and Zinc on Crystallization Kinetics of Hydroxyapatite (0001) Face. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 4189-4194	3.4	133
194	Simple surface modification of poly(epsilon-caprolactone) to induce its apatite-forming ability. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 75, 138-45	5.4	125
193	Synthesis and characterization of hierarchically macroporous and mesoporous CaO-MO-SiO(2)-P(2)O(5) (M=Mg, Zn, Sr) bioactive glass scaffolds. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 3638-44	10.8	111
192	Zinc-containing tricalcium phosphate and related materials for promoting bone formation. <i>Current Applied Physics</i> , <b>2005</b> , 5, 402-406	2.6	106
191	Zinc-containing apatite layers on external fixation rods promoting cell activity. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 962-8	10.8	94
190	Stimulation of In Vivo Antitumor Immunity with Hollow Mesoporous Silica Nanospheres. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1899-903	16.4	89
189	Fabrication of Zn containing apatite cement and its initial evaluation using human osteoblastic cells. <i>Biomaterials</i> , <b>2002</b> , 23, 423-8	15.6	88
188	Hollow boron nitride nanospheres as boron reservoir for prostate cancer treatment. <i>Nature Communications</i> , <b>2017</b> , 8, 13936	17.4	86
187	Calcium phosphate composite layers for surface-mediated gene transfer. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2034-46	10.8	83

186	Resorbability and solubility of zinc-containing tricalcium phosphate. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 60, 224-31		78
185	Solubility product of OH-carbonated hydroxyapatite. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 36, 522-8		76
184	Effect of Alloying Elements on Mechanical Properties of Titanium Alloys for Medical Implants. <i>Materials Transactions, JIM</i> , <b>1993</b> , 34, 1217-1222		76
183	Antibiotic-loaded poly-epsilon-caprolactone and porous beta-tricalcium phosphate composite for treating osteomyelitis. <i>Biomaterials</i> , <b>2008</b> , 29, 350-8	15.6	75
182	Solubility of Mg-containing beta-tricalcium phosphate at 25 degrees C. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 508-170.8		74
181	Calcium phosphate clusters. <i>Biomaterials</i> , <b>2001</b> , 22, 2921-9	15.6	74
180	Osteogenic differentiation of cultured rat and human bone marrow cells on the surface of zinc-releasing calcium phosphate ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2003</b> , 67, 1115-22	5.4	72
179	Calcium-phosphate-hybridized tendon directly promotes regeneration of tendon-bone insertion. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 319-27		71
178	In vitro bioactivity of starch thermoplastic/hydroxyapatite composite biomaterials: an in situ study using atomic force microscopy. <i>Biomaterials</i> , <b>2003</b> , 24, 579-85	15.6	71
177	Long-term implantation of zinc-releasing calcium phosphate ceramics in rabbit femora. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 65, 468-74		70
176	Existence of Posner's Cluster in Vacuum. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 5111-5114	2.8	68
175	Clustering of Calcium Phosphate in the System $\text{CaCl}_2\text{-H}_3\text{PO}_4\text{-H}_2\text{O}$ . <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 8230-8235	3.4	68
174	The optimum zinc content in set calcium phosphate cement for promoting bone formation in vivo. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 969-975	8.3	66
173	Hydrothermal growth of carbonate-containing hydroxyapatite single crystals. <i>Journal of Crystal Growth</i> , <b>1996</b> , 163, 311-317	1.6	65
172	Direct Growth Rate Measurement of Hydroxyapatite Single Crystal by Moire Phase Shift Interferometry. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 6471-6476	3.4	63
171	Inhibitory effect of $\text{Zn}^{2+}$ in zinc-containing beta-tricalcium phosphate on resorbing activity of mature osteoclasts. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 84, 344-52	5.4	62
170	Hollow Structure Improved Anti-Cancer Immunity of Mesoporous Silica Nanospheres In Vivo. <i>Small</i> , <b>2016</b> , 12, 3510-5	11	62
169	Growth kinetics of hydroxyapatite crystal revealed by atomic force microscopy. <i>Journal of Crystal Growth</i> , <b>1995</b> , 154, 118-125	1.6	61

168	Particle-size-dependent toxicity and immunogenic activity of mesoporous silica-based adjuvants for tumor immunotherapy. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 7480-9	10.8	54
167	Tailoring inorganic nanoadjuvants towards next-generation vaccines. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 4954-4980	58.5	53
166	The formation of an antibacterial agent-apatite composite coating on a polymer surface using a metastable calcium phosphate solution. <i>Biomaterials</i> , <b>2006</b> , 27, 3295-303	15.6	53
165	Symmetry of Posner's Cluster. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 8323-8324	16.4	51
164	In vitro biocompatibility, mechanical properties, and corrosion resistance of Ti-Zr-Nb-Ta-Pd and Ti-Sn-Nb-Ta-Pd alloys. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 893-9		50
163	The most appropriate (Ca+Zn)/P molar ratio to minimize the zinc content of ZnTCP/HAP ceramic used in the promotion of bone formation. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 62, 457-63		49
162	Comprehensive Mechanism Analysis of Mesoporous-Silica-Nanoparticle-Induced Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1169-76	10.1	49
161	Laminin-apatite composite coating to enhance cell adhesion to ethylene-vinyl alcohol copolymer. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 72, 168-74	5.4	48
160	Mesoporous bioactive glass coatings on stainless steel for enhanced cell activity, cytoskeletal organization and AsMg immobilization. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 6437		45
159	Precipitation Kinetics of Hydroxyapatite Revealed by the Continuous-Angle Laser Light-Scattering Technique. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 10563-10568	3.4	45
158	Efficacy of the injectable calcium phosphate ceramics suspensions containing magnesium, zinc and fluoride on the bone mineral deficiency in ovariectomized rats. <i>Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 97, 421-32	3.9	44
157	Spontaneous growth of a laminin-apatite nano-composite in a metastable calcium phosphate solution. <i>Biomaterials</i> , <b>2006</b> , 27, 167-75	15.6	43
156	Biodegradable Metal Ion-Doped Mesoporous Silica Nanospheres Stimulate Anticancer Th1 Immune Response in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43538-43544	9.5	42
155	Enhanced bone formation using hydroxyapatite ceramic coated with fibroblast growth factor-2. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2751-9	10.8	41
154	Nucleation of Calcium Phosphate on 11-Mercaptoundecanoic Acid Self-assembled Monolayer in a Pseudophysiological Solution. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 11950-11956	3.4	41
153	Fibroblast growth factor-2-apatite composite layers on titanium screw to reduce pin tract infection rate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 86, 365-74	3.5	39
152	Fibronectin-calcium phosphate composite layer on hydroxyapatite to enhance adhesion, cell spread and osteogenic differentiation of human mesenchymal stem cells in vitro. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 116-23	3.5	39
151	Reduced platelet adhesion to titanium metal coated with apatite, albumin-apatite composite or laminin-apatite composite. <i>Biomaterials</i> , <b>2005</b> , 26, 6924-31	15.6	39

150	Boron nitride nanotube-enhanced osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 323-9	3.5	39
149	Effect of controlled zinc release on bone mineral density from injectable Zn-containing beta-tricalcium phosphate suspension in zinc-deficient diseased rats. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 69, 552-60		37
148	Investigation of a growth unit of hydroxyapatite crystal from the measurements of step kinetics. <i>Journal of Crystal Growth</i> , <b>1996</b> , 167, 773-776	1.6	37
147	Growth Kinetics of the Hydroxyapatite (0001) Face Revealed by Phase Shift Interferometry and Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 7833-7838	3.4	36
146	Signal molecules-calcium phosphate coprecipitation and its biomedical application as a functional coating. <i>Biofabrication</i> , <b>2011</b> , 3, 022001	10.5	35
145	Dissolution rate of zinc-containing beta-tricalcium phosphate ceramics. <i>Biomedical Materials (Bristol)</i> , <b>2006</b> , 1, 134-9	3.5	34
144	Formation of a FGF-2 and calcium phosphate composite layer on a hydroxyapatite ceramic for promoting bone formation. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, S175-80	3.5	34
143	Zinc containing hydroxyapatite ceramics to promote osteoblastic cell activity. <i>Materials Science and Technology</i> , <b>2004</b> , 20, 1079-1083	1.5	34
142	Calcium level-responsive in-vitro zinc release from zinc containing tricalcium phosphate (ZnTCP). <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 52, 819-24		34
141	Effect of Alloying Elements on Anodic Polarization Properties of Titanium Alloys in Acid Solutions. <i>Materials Transactions, JIM</i> , <b>1994</b> , 35, 58-66		34
140	Coprecipitation of cytochrome C with calcium phosphate on hydroxyapatite ceramic. <i>Current Applied Physics</i> , <b>2005</b> , 5, 526-530	2.6	33
139	Reducing the risk of impaired bone apposition to titanium screws with the use of fibroblast growth factor-2-apatite composite layer coating. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2017</b> , 12, 1	2.8	31
138	Novel gene-transferring scaffolds having a cell adhesion molecule-DNA-apatite nanocomposite surface. <i>Gene Therapy</i> , <b>2007</b> , 14, 1750-3	4	31
137	Ultra-Structural Study of the Laminin-Apatite Composite Layer Formed on Ethylene-Vinyl Alcohol Copolymer by a Biomimetic Process. <i>Key Engineering Materials</i> , <b>2005</b> , 284-286, 227-230	0.4	30
136	Mesoporous silica-calcium phosphate-tuberculin purified protein derivative composites as an effective adjuvant for cancer immunotherapy. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 863-71	10.1	29
135	Mechanical properties of hydroxyapatite and OH-carbonated hydroxyapatite single crystals. <i>Journal of Dental Research</i> , <b>1998</b> , 77, 1560-8	8.1	29
134	BMP-2 gene-fibronectin-apatite composite layer enhances bone formation. <i>Journal of Biomedical Science</i> , <b>2011</b> , 18, 62	13.3	27
133	Biomimetic coating of an apatite layer on poly(L-lactic acid); improvement of adhesive strength of the coating. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1727-34	4.5	26

132	Effect of Impurity on Two-Dimensional Nucleation Kinetics: Case Studies of Magnesium and Zinc on Hydroxyapatite (0001) Face. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 1991-1994	3.4	26
131	Surface observations of synthetic hydroxyapatite single crystal by atomic force microscopy. <i>Journal of Crystal Growth</i> , <b>1995</b> , 148, 201-206	1.6	26
130	Ascorbate-apatite composite and ascorbate-FGF-2-apatite composite layers formed on external fixation rods and their effects on cell activity in vitro. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2647-56	10.8	25
129	Preparation of a bonelike apatite-polymer fiber composite using a simple biomimetic process. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 86, 341-52	3.5	25
128	Rod-shaped and fluorine-substituted hydroxyapatite free of molecular immunopotentiators stimulates anti-cancer immunity in vivo. <i>Chemical Communications</i> , <b>2016</b> , 52, 7078-81	5.8	25
127	Effect of coprecipitation temperature on the properties and activity of fibroblast growth factor-2 apatite composite layer. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 216-221	8.3	24
126	Control of gene transfer on a DNA-fibronectin-apatite composite layer by the incorporation of carbonate and fluoride ions. <i>Biomaterials</i> , <b>2011</b> , 32, 4896-902	15.6	24
125	The interaction between osteoclast-like cells and osteoblasts mediated by nanophase calcium phosphate-hybridized tendons. <i>Biomaterials</i> , <b>2005</b> , 26, 1027-34	15.6	24
124	A nanoscale metal organic frameworks-based vaccine synergises with PD-1 blockade to potentiate anti-tumour immunity. <i>Nature Communications</i> , <b>2020</b> , 11, 3858	17.4	24
123	A phase I study on combined therapy with proton-beam radiotherapy and in situ tumor vaccination for locally advanced recurrent hepatocellular carcinoma. <i>Radiation Oncology</i> , <b>2013</b> , 8, 239	4.2	23
122	Synthesis of fluoride-releasing carbonate apatites for bone substitutes. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1001-7	4.5	23
121	Simple Surface Modification Process to Produce a Transparent ApatitePolystyrene Composite for In Situ Observation of Cell Behavior. <i>Chemistry Letters</i> , <b>2006</b> , 35, 1300-1301	1.7	23
120	Dissolution kinetics of dicalcium phosphate dihydrate under pseudophysiological conditions. <i>Journal of Crystal Growth</i> , <b>2002</b> , 235, 465-470	1.6	23
119	Hierarchically porous, and Cu- and Zn-containing $\beta$ -ALOOH mesostrands as adjuvants for cancer immunotherapy. <i>Scientific Reports</i> , <b>2017</b> , 7, 16749	4.9	22
118	BMP-2 and ALP gene expression induced by a BMP-2 gene-fibronectin-apatite composite layer. <i>Biomedical Materials (Bristol)</i> , <b>2011</b> , 6, 045004	3.5	22
117	Enhanced immobilization of acidic proteins in the apatite layer via electrostatic interactions in a supersaturated calcium phosphate solution. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2969-76	10.8	22
116	Effect of geometrical structure on drug release rate of a three-dimensionally perforated porous apatite/collagen composite cement. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 286-92	3.9	22
115	Hydrolysis and cytocompatibility of zinc-containing $\beta$ -tricalcium phosphate powder. <i>Materials Science and Engineering C</i> , <b>2004</b> , 24, 709-715	8.3	22

114	Rod-shaped and substituted hydroxyapatite nanoparticles stimulating type 1 and 2 cytokine secretion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 139, 10-6	6	21
113	In situ study of partially crystallized Bioglass and hydroxylapatite in vitro bioactivity using atomic force microscopy. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 62, 82-8		20
112	Effect of Alloying Elements on Mechanical Properties of Titanium Alloys for Medical Implants. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>1993</b> , 57, 332-337	0.4	20
111	Rod-Scale Design Strategies for Immune-Targeted Delivery System toward Cancer Immunotherapy. <i>ACS Nano</i> , <b>2019</b> , 13, 7705-7715	16.7	19
110	Interlaboratory studies on in vitro test methods for estimating in vivo resorption of calcium phosphate ceramics. <i>Acta Biomaterialia</i> , <b>2015</b> , 25, 347-55	10.8	19
109	Enhanced wound healing associated with Sharpey's fiber-like tissue formation around FGF-2-apatite composite layers on percutaneous titanium screws in rabbits. <i>Archives of Orthopaedic and Trauma Surgery</i> , <b>2012</b> , 132, 113-21	3.6	19
108	Energy-Preeminent Isomer of the Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> Cluster. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 8118-8128		19
107	Controlled superficial assembly of DNA-amorphous calcium phosphate nanocomposite spheres for surface-mediated gene delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 141, 519-527	6	18
106	Zn- and Mg- containing tricalcium phosphates-based adjuvants for cancer immunotherapy. <i>Scientific Reports</i> , <b>2013</b> , 3, 2203	4.9	18
105	Flux Growth and Crystal Structure of Boron-Containing Apatite. <i>Journal of the Ceramic Society of Japan</i> , <b>1988</b> , 96, 305-309		18
104	Laser-assisted biomimetic process for surface functionalization of titanium metal. <i>Colloids and Interface Science Communications</i> , <b>2015</b> , 4, 5-9	5.4	17
103	Pore size-dependent immunogenic activity of mesoporous silica-based adjuvants in cancer immunotherapy. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 967-74	5.4	17
102	Highly efficient gene transfer system using a laminin-DNA-apatite composite layer. <i>Journal of Gene Medicine</i> , <b>2010</b> , 12, 194-206	3.5	17
101	Fretting corrosion resistance and fretting corrosion product cytocompatibility of ferritic stainless steel. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 34, 9-14		17
100	Stimulation of In Vivo Antitumor Immunity with Hollow Mesoporous Silica Nanospheres. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 1931-1935	3.6	16
99	Preliminary in vivo study of apatite and laminin-apatite composite layers on polymeric percutaneous implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2011</b> , 97, 96-104	3.5	16
98	Calcium phosphate coating formed in infusion fluid mixture to enhance fixation strength of titanium screws. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1799-808	4.5	16
97	Mesoporous Caged- $\beta$ -ALOOH-Double-Stranded RNA Analog Complexes for Cancer Immunotherapy. <i>Advanced Biology</i> , <b>2018</b> , 2, 1700114	3.5	16

96	Hollow ZnO Nanospheres Enhance Anticancer Immunity by Promoting CD4 and CD8 T Cell Populations In Vivo. <i>Small</i> , <b>2017</b> , 13, 1701816	11	15
95	Angiogenesis therapy for brain infarction using a slow-releasing drug delivery system for fibroblast growth factor 2. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 432, 182-7	3-4	15
94	Formation of apatite coatings on an artificial ligament using a plasma- and precursor-assisted biomimetic process. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 19155-68	6.3	15
93	Long-term therapeutic effect of novel calcium phosphate-based compounds injected in ovariectomized rats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 90, 229-37	3.5	15
92	Fibronectin-DNA-apatite composite layer for highly efficient and area-specific gene transfer. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 92, 1038-47	5.4	14
91	Spontaneous assembly of DNA-morphous calcium phosphate nanocomposite spheres for surface-mediated gene transfer. <i>CrystEngComm</i> , <b>2013</b> , 15, 4994	3.3	13
90	Effect of zinc-containing tricalcium phosphate nano particles injection on jawbone mineral density and mechanical strength of osteoporosis model rats. <i>Biological and Pharmaceutical Bulletin</i> , <b>2011</b> , 34, 1215-8	2.3	13
89	Silicate-apatite composite layers on external fixation rods and in vitro evaluation using fibroblast and osteoblast. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 92, 1181-9	5.4	13
88	In Situ Atomic Force Microscopy Study of the Dissolution Kinetics of Dicalcium Phosphate Dihydrate Crystal in a Physiological Solution. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 8534-8539	3.4	13
87	Effect of Zn and Mg in tricalcium phosphate and in culture medium on apoptosis and actin ring formation of mature osteoclasts. <i>Biomedical Materials (Bristol)</i> , <b>2008</b> , 3, 045002	3.5	13
86	Biomimetic apatite coating on yttria-stabilized tetragonal zirconia utilizing femtosecond laser surface processing. <i>Surface and Coatings Technology</i> , <b>2016</b> , 296, 88-95	4.4	13
85	Synergistical chemotherapy and cancer immunotherapy using dual drug-delivering and immunopotentiating mesoporous silica. <i>Applied Materials Today</i> , <b>2019</b> , 16, 102-111	6.6	12
84	Mechanical properties of a laminin-apatite composite layer formed on an ethylene-vinyl alcohol copolymer. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 1681-1686	8.3	12
83	Effect of geometrical structure on the biodegradation of a three-dimensionally perforated porous apatite/collagen composite bone cell scaffold. <i>Biological and Pharmaceutical Bulletin</i> , <b>2010</b> , 33, 1228-32	2.3	12
82	Magnesium- and Zinc-Substituted Beta-Tricalcium Phosphates as Potential Bone Substitute Biomaterials. <i>Key Engineering Materials</i> , <b>2008</b> , 377, 85-98	0.4	12
81	Growth of Hydroxyapatite Crystals <b>2003</b> , 525-559		12
80	Effect of geometrical structure on the in vivo quality change of a three-dimensionally perforated porous bone cell scaffold made of apatite/collagen composite. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2013</b> , 101, 338-45	3.5	11
79	Reduced platelet adhesion and blood coagulation on cross-linked albumin films. <i>Materials Science and Engineering C</i> , <b>2010</b> , 30, 812-816	8.3	11



78	Effects of ion beam assist on the formation of calcium phosphate film. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 206, 522-526	1.2	11
77	Fabrication of a DNA-lipid-apatite composite layer for efficient and area-specific gene transfer. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1011-9	4.5	10
76	Preparation and biological evaluation of a fibroblast growth factor-2-apatite composite layer on polymeric material. <i>Biomedical Materials (Bristol)</i> , <b>2010</b> , 5, 065008	3.5	10
75	Synergistic effects of stellated fibrous mesoporous silica and synthetic dsRNA analogues for cancer immunotherapy. <i>Chemical Communications</i> , <b>2018</b> , 54, 1057-1060	5.8	9
74	Silica Nanospheres: Hollow Structure Improved Anti-Cancer Immunity of Mesoporous Silica Nanospheres In Vivo (Small 26/2016). <i>Small</i> , <b>2016</b> , 12, 3602-3602	11	9
73	Simple synthesis route of mesoporous ALOOH nanofibers to enhance immune responses. <i>RSC Advances</i> , <b>2013</b> , 3, 8164	3.7	9
72	Coprecipitation of DNA-lipid complexes with apatite and comparison with superficial adsorption for gene transfer applications. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 28, 937-45	2.9	9
71	Gatifloxacin-loaded PLGA and tricalcium phosphate composite for treating osteomyelitis. <i>Dental Materials Journal</i> , <b>2011</b> , 30, 264-73	2.5	9
70	Bending strength of synthetic OH-carbonated hydroxyapatite single crystals. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 34, 269-72		9
69	Formation of an ascorbate-apatite composite layer on titanium. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, S181-5	3.5	9
68	In-vitro analysis of metallic particles, colloidal nanoparticles and ions in wear-corrosion products of SUS317L stainless steel. <i>Materials Science and Engineering C</i> , <b>2001</b> , 17, 161-166	8.3	9
67	Si-doping increases the adjuvant activity of hydroxyapatite nanorods. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 174, 300-307	6	9
66	DNA-lipid-apatite composite layers enhance gene expression of mesenchymal stem cells. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 512-8	8.3	8
65	Calcium Phosphate Coating on a Bioresorbable Hydroxyapatite/Collagen Nanocomposite for Surface Functionalization. <i>Chemistry Letters</i> , <b>2013</b> , 42, 1029-1031	1.7	8
64	Fundamentals of Hydroxyapatite and Related Calcium Phosphates <b>2010</b> , 19-52		8
63	Hydrothermal growth of hydroxyapatite single crystals under natural convection. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2655-2661	2.5	8
62	Total body irradiation causes a chronic decrease in antioxidant levels. <i>Scientific Reports</i> , <b>2021</b> , 11, 6716	4.9	8
61	Preparation, solubility, and cytocompatibility of zinc-releasing calcium phosphate ceramics <b>2000</b> , 50, 178		8

60	Initial clinical trial of pins coated with fibroblast growth factor-2-apatite composite layer in external fixation of distal radius fractures. <i>Journal of Orthopaedics</i> , <b>2019</b> , 16, 69-73	1.6	7
59	An immuno-potentiating vehicle made of mesoporous silica-zinc oxide micro-rosettes with enhanced doxorubicin loading for combined chemoimmunotherapy. <i>Chemical Communications</i> , <b>2019</b> , 55, 961-964	5.8	7
58	The calcium phosphate matrix of FGF-2-apatite composite layers contributes to their biological effects. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 10252-70	6.3	7
57	Laser microscopic measurement of osteoclastic resorption pits on biomaterials. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 762-766	8.3	7
56	Reduction of surface roughness of a laminin-apatite composite coating via inhibitory effect of magnesium ions on apatite crystal growth. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 1342-8	10.8	7
55	Biological Evaluation of a Laminin/Apatite/Polymer Composite for Use in Skin Terminals. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 1181-1184	0.4	7
54	Hydroxyapatite containing immobilized collagen and fibronectin promotes bone regeneration. <i>International Congress Series</i> , <b>2005</b> , 1284, 330-331		7
53	Structure of Borate Groups in Boron-Containing Apatite. <i>Journal of the Ceramic Society of Japan</i> , <b>1988</b> , 96, 707-709		7
52	Effects of gatifloxaine content in gatifloxacin-loaded PLGA and tricalcium phosphate composites on efficacy in treating osteomyelitis. <i>Odontology / the Society of the Nippon Dental University</i> , <b>2016</b> , 104, 105-13	3.6	6
51	Improved bonding of partially osteomyelitic bone to titanium pins owing to biomimetic coating of apatite. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 24366-79	6.3	6
50	Improvement in endothelial cell adhesion and retention under physiological shear stress using a laminin-apatite composite layer on titanium. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130014	4.1	6
49	Fabrication of DNA-antibody-apatite composite layers for cell-targeted gene transfer. <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 064204	7.1	6
48	Dynamic Light Scattering Investigation in Aqueous Solutions of bc1-Complex Membrane Protein. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 4318-4324	3.4	6
47	In vitro/in vivo evaluation of the efficacy of gatifloxacin-loaded PLGA and hydroxyapatite composite for treating osteomyelitis. <i>Dental Materials Journal</i> , <b>2017</b> , 36, 714-723	2.5	5
46	Formation of cytochrome C/apatite composite layer on NaOH- and heat-treated titanium. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 766-770	8.3	5
45	Synthesis of Albumin/DCP Nano-Composite Particles. <i>Key Engineering Materials</i> , <b>2007</b> , 330-332, 239-242	0.4	5
44	Biomimetic Coating of Laminin -Apatite Composite Layer onto Ethylene-Vinyl Alcohol Copolymer. <i>Key Engineering Materials</i> , <b>2003</b> , 254-256, 541-544	0.4	5
43	Improved gene transfer efficiency of a DNA-lipid-apatite composite layer by controlling the layer molecular composition. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 122, 465-471	6	4

42	Laser-Assisted Biomimetic Process for Calcium Phosphate Coating on a Hydroxyapatite Ceramic. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 217-222	0.4	4
41	Tissue-engineered endothelial cell layers on surface-modified Ti for inhibiting platelet adhesion. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 035002	7.1	4
40	Resorbability and solubility of zinc-containing tricalcium phosphate <b>2002</b> , 60, 224		4
39	Biological activity of terminally gamma-ray-sterilized titanium and hydroxyapatite coated with a growth factor-apatite composite layer. <i>Materials Today Communications</i> , <b>2020</b> , 24, 101098	2.5	3
38	Correlation between cell attachment areas after 2 h of culture and osteogenic differentiation activity of rat mesenchymal stem cells on hydroxyapatite substrates with various surface properties. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 430, 156-60	3.4	3
37	Coprecipitation of DNA and Calcium Phosphate Using an Infusion Fluid Mixture. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 465-470	0.4	3
36	Effect of Mg on Surface Roughness and Protein Content of Protein-Apatite Composite Layers. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 85-88	0.4	3
35	Zinc-Containing Calcium Phosphate Ceramics with a (Ca+Zn)/P Molar Ratio of 1.67. <i>Key Engineering Materials</i> , <b>2005</b> , 284-286, 31-34	0.4	3
34	Resorbability Reduction by the Incorporation of Zinc into Tricalcium Phosphate. <i>Key Engineering Materials</i> , <b>2000</b> , 192-195, 199-202	0.4	3
33	SOL-GEL SYNTHESIS OF ZINC CONTAINING. <i>Phosphorus Research Bulletin</i> , <b>1996</b> , 6, 63-66	0.3	3
32	Area-specific cell stimulation via surface-mediated gene transfer using apatite-based composite layers. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 8294-309	6.3	2
31	Cefazolin-containing poly( $\epsilon$ -caprolactone) sponge pad to reduce pin tract infection rate in rabbits. <i>Asia-Pacific Journal of Sports Medicine, Arthroscopy, Rehabilitation and Technology</i> , <b>2014</b> , 1, 54-61	1.2	2
30	Therapeutic effects of transdermal systems containing zinc-related materials on thermal burn rats. <i>Bio-Medical Materials and Engineering</i> , <b>2015</b> , 25, 143-56	1	2
29	Therapeutic effect of zinc-containing calcium phosphate suspension injection in thermal burn-rats. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 1518-24	5.4	2
28	Development of an early estimation method for predicting later osteogenic differentiation activity of rat mesenchymal stromal cells from their attachment areas. <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 064209	7.1	2
27	Coprecipitation of Cell Adhesion Molecule with Calcium Phosphate on Hydroxyapatite Ceramic. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 767-770	0.4	2
26	Therapeutic Effect of Selected Biomaterials (Mg/Zn/F-CaPs, Administered by Injection) on Bone Properties of Ovariectomized Rats. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 243-246	0.4	2
25	Solubility of Magnesium-Containing $\beta$ -Tricalcium Phosphate: Comparison with that of Zinc-Containing $\beta$ -Tricalcium Phosphate. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 239-242	0.4	2

24	Effect of Alloying Elements on Anodic Polarization Properties of Titanium Alloys for Medical Implants in Acid Solutions. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>1993</b> , 57, 338-346	0.4	2
23	Cancer Immunotherapy: Comprehensive Mechanism Analysis of Mesoporous-Silica-Nanoparticle-Induced Cancer Immunotherapy (Adv. Healthcare Mater. 10/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1246	10.1	2
22	An MRI-visible immunoadjuvant based on hollow GdO nanospheres for cancer immunotherapy. <i>Chemical Communications</i> , <b>2020</b> , 56, 8186-8189	5.8	1
21	Pulsewidth dependence of laser-induced periodic surface structure formed on yttria-stabilized zirconia polycrystal <b>2016</b> ,		1
20	Influence of Ca <sup>2+</sup> and Mg <sup>2+</sup> Supplementation on In Vitro Biological Properties of Hydroxyapatite/Collagen Nanocomposite Membrane. <i>Key Engineering Materials</i> , <b>2011</b> , 493-494, 126-131	0.4	1
19	Calcium Phosphate Coated Hydroxyapatite/Collagen Nanocomposite Membrane for Surface-Mediated Gene Transfer. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 490-494	0.4	1
18	Novel Gene-Transferring System Using a Laminin-DNA-Apatite Composite Layer. <i>Key Engineering Materials</i> , <b>2007</b> , 330-332, 1021-1025	0.4	1
17	Formation of FGF-2-Apatite Composite Layer on Hydroxyapatite Ceramic. <i>Key Engineering Materials</i> , <b>2006</b> , 309-311, 763-766	0.4	1
16	FGF-2/Calcium Phosphate Composite Layer to Resist Bacterial Infection. <i>Key Engineering Materials</i> , <b>2007</b> , 330-332, 691-694	0.4	1
15	Formation of a Laminin-Apatite Composite Layer with Low Surface Roughness on a Polymer Surface. <i>Key Engineering Materials</i> , <b>2007</b> , 330-332, 659-662	0.4	1
14	Corrosion Resistance of Titanium Alloys for Medical Implants in Physiological Saline Solution. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>1993</b> , 57, 347-355	0.4	1
13	Reprint of Biomimetic apatite coating on yttria-stabilized tetragonal zirconia utilizing femtosecond laser surface processing. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 1144-1151	4.4	1
12	Impacts of chemically different surfaces of implants on a biological activity of fibroblast growth factor-2-apatite composite layers formed on the implants. <i>Orthopaedics and Traumatology: Surgery and Research</i> , <b>2021</b> , 107, 102748	2.9	1
11	Biosafety of mesoporous silica nanoparticles: a combined experimental and literature study. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2021</b> , 32, 102	4.5	1
10	Novel method for selecting slices of the same cross-sectional view from digital tomosynthesis for monitoring posterior spinal instrumentation. <i>Journal of Clinical Neuroscience</i> , <b>2021</b> , 92, 183-188	2.2	1
9	Cell attachment area of rat mesenchymal stem cells correlates with their osteogenic differentiation level on substrates without osteoconductive property. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 525, 1081-1086	3.4	0
8	Signal Molecule-Calcium Phosphate Composites: Novel Approaches to Controlling Cellular and/or Biological Reactions and Functions. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2014</b> , 171-197	0.6	
7	Novel Apatite-Pathogen-Associated Molecular Patterns Adjuvants for Cancer Immune Therapy. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 471-474	0.4	

- 6 FGF-2-Zinc-Apatite Composite Layers on External Fixation Rod for Promoting Cell Activity. *Key Engineering Materials*, **2012**, 529-530, 480-485 0.4
- 5 Therapeutic Effect of Lipophilic and/or Hydrophilic Zinc Related Compound Injections on Alveolar Bone Mass in Zinc-Deficient Osteoporosis Rats. *Key Engineering Materials*, **2012**, 529-530, 457-460 0.4
- 4 F-Substituted Carbonate Apatite for Promoting Bone Formation. *Key Engineering Materials*, **2006**, 309-311, 141-144 0.4
- 3 Attenuation of Osteoclastic Activity Induced by Zinc-Containing Tricalcium Phosphate. *Key Engineering Materials*, **2007**, 330-332, 1071-1074 0.4
- 2 Formation of an FGF-2-Apatite Composite Layer on Ethylene-Vinyl Alcohol Copolymer. *Key Engineering Materials*, **2007**, 361-363, 455-458 0.4
- 1 Variation of Clusters in Simulated Body Fluids with Time. *Key Engineering Materials*, **2001**, 218-220, 629-632 0.4