

Toshiki Miyazaki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

3,033
citations

24
h-index

53
g-index

129
ext. papers

3,237
ext. citations

3.7
avg, IF

4.86
L-index

#	Paper	IF	Citations
127	Apatite formation on electrochemically modified surface of hafnium metal in simulated body environment. <i>Journal of Asian Ceramic Societies</i> , 2022 , 10, 215-222	2.4	
126	Effect of sodium tungstate on anaerobic digestion of waste sewage sludge: Enhanced methane production via increased acetoclastic methanogens. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107524	6.8	1
125	Relationship between valence of titania and apatite mineralization behavior in simulated body environment. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3545-3553	3.8	0
124	Preparation of bioactive and antibacterial PMMA-based bone cement by modification with quaternary ammonium and alkoxy silane. <i>Journal of Biomaterials Applications</i> , 2021 , 36, 311-320	2.9	0
123	Release Profiles of Dyes and Proteins from Calcium Phosphate Microspheres with Different Crystalline Phases. <i>Ceramics</i> , 2021 , 4, 291-301	1.7	
122	Spontaneous fabrication of octacalcium phosphate: synthesis conditions and basic characterizations. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	
121	Factors governing the fluorination of hydroxyapatite by an ionic liquid. <i>Ceramics International</i> , 2021 , 47, 16225-16231	5.1	2
120	Organic modification of magnetite nanoparticles for biomedical applications 2021 , 77-82		1
119	Fabrication and properties of alginate/calcium phosphate hybrid beads: A comparative study. <i>Bio-Medical Materials and Engineering</i> , 2021 , 32, 15-27	1	
118	Synthesis and in vitro biodegradation of pure octacalcium phosphate spheres. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 372-379	2	4
117	Effect of Calcium Acetate Content on Apatite-Forming Ability and Mechanical Property of PMMA Bone Cement Modified with Quaternary Ammonium. <i>Materials</i> , 2020 , 13,	3.5	2
116	Compositional dependence of the apatite formation ability of Ti-Zr alloys designed for hard tissue reconstruction. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 110	4.5	0
115	Structural control of magnetite nanoparticles for hyperthermia by modification with organic polymers: effect of molecular weight.. <i>RSC Advances</i> , 2020 , 10, 26374-26380	3.7	1
114	Setting behavior, apatite-forming ability, mechanical strength of polymethylmethacrylate bone cement through bioactivity modification of phosphate functional groups combined with Ca ions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 2128-2151	3.5	2
113	In vitro apatite mineralization and heat generation of magnetite-reduced graphene oxide nanocomposites for hyperthermia treatment. <i>Materials Science and Engineering C</i> , 2019 , 99, 68-72	8.3	6
112	Control of crystalline phase and morphology of calcium carbonate by electrolysis: Effects of current and temperature. <i>Ceramics International</i> , 2019 , 45, 14039-14044	5.1	9
111	In situ synthesis of magnetic iron oxide nanoparticles in chitosan hydrogels as a reaction field: Effect of cross-linking density. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 179, 334-339	6	13

110	Cytocompatible and Antibacterial Properties of Chitosan-Siloxane Hybrid Spheres. <i>Polymers</i> , 2019 , 11,	4.5	3
109	Development of hafnium metal and titanium-hafnium alloys having apatite-forming ability by chemical surface modification. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2519-2523	3.5	6
108	Microparticles Preparation Using Water-in-Oil Emulsion 2018 , 453-481		1
107	Effect of metallographic structure and machining process on the apatite-forming ability of sodium hydroxide- and heat-treated titanium. <i>Bio-Medical Materials and Engineering</i> , 2018 , 29, 109-118	1	1
106	Structural effects of phosphate groups on apatite formation in a copolymer modified with Ca in a simulated body fluid. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 174-182	7.3	5
105	Structural Effects of Sulfur-Containing Functional Groups on Apatite Formation on Ca-Modified Copolymers in a Simulated Body Environment. <i>ACS Omega</i> , 2018 , 3, 5627-5633	3.9	4
104	Apatite formation on a hydrogel containing sulfinic acid group under physiological conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1924-1929	3.5	3
103	Enhanced biosafety of silica coated gadolinium based nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 46	4.5	13
102	Bioactive Glass-Ceramics 2017 , 213-237		0
101	Preparation of chitosan-hydroxyapatite composite mono-fiber using coagulation method and their mechanical properties. <i>Carbohydrate Polymers</i> , 2017 , 175, 355-360	10.3	8
100	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	8.3	5
99	TiO microspheres containing magnetic nanoparticles for intra-arterial hyperthermia. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2308-2314	3.5	4
98	Bioactive carbon-PEEK composites prepared by chemical surface treatment. <i>Materials Science and Engineering C</i> , 2017 , 70, 71-75	8.3	26
97	Effect of fibronectin adsorption on osteoblastic cellular responses to hydroxyapatite and alumina. <i>Materials Science and Engineering C</i> , 2016 , 69, 1268-72	8.3	10
96	Biofilm formation of periodontal pathogens on hydroxyapatite surfaces: Implications for periodontium damage. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2873-80	5.4	8
95	Apatite-forming ability of vinylphosphonic acid-based copolymer in simulated body fluid: effects of phosphate group content. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 152	4.5	2
94	Structures of organic additives modified magnetite nanoparticles. <i>Ceramics International</i> , 2016 , 42, 6000-6004	5.6	10
93	Microparticles Preparation Using Water-in-Oil Emulsion 2016 , 1-29		

92	Adsorption of Laminin on Hydroxyapatite and Alumina and the MC3T3-E1 Cell Response. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1162-1168	5.5	11
91	Ceramic-Polymer Composites for Biomedical Applications 2016 , 287-300		0
90	Formation of bioactive N-doped TiO ₂ on Ti with visible light-induced antibacterial activity using NaOH, hot water, and subsequent ammonia atmospheric heat treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 145, 285-290	6	14
89	Bioactive polymethylmethacrylate bone cement modified with combinations of phosphate group-containing monomers and calcium acetate. <i>Journal of Biomaterials Applications</i> , 2015 , 29, 1296-303 ⁹		3
88	Sol-gel synthesis of magnetic TiO ₂ microspheres and characterization of their in vitro heating ability for hyperthermia treatment of cancer. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 75, 90-97	2.3	14
87	Bioactive Co-Cr alloy for biomedical applications prepared by surface modification using self-assembled monolayers and poly- γ -glutamic acid. <i>Dental Materials Journal</i> , 2015 , 34, 707-12	2.5	5
86	Biom mineralization behavior of a vinylphosphonic acid-based copolymer added with polymerization accelerator in simulated body fluidPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2015 , 3, 407-411	2.4	2
85	In vitro apatite formation and drug loading/release of porous TiO ₂ microspheres prepared by sol-gel processing with different SiO ₂ nanoparticle contents. <i>Materials Science and Engineering C</i> , 2015 , 50, 317-23	8.3	13
84	Ceramic-Polymer Composites for Biomedical Applications 2015 , 1-12		2
83	Organic-Inorganic Composites Toward Biomaterial Application. <i>Frontiers of Oral Biology</i> , 2015 , 17, 33-8		6
82	Enhancement of sludge reduction and methane production by removing extracellular polymeric substances from waste activated sludge. <i>Chemosphere</i> , 2014 , 117, 552-8	8.4	27
81	Effects of organic polymer addition in magnetite synthesis on the crystalline structure. <i>RSC Advances</i> , 2014 , 4, 23359-23363	3.7	14
80	Bisphosphonate release profiles from magnetite microspheres. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 543-7	2.9	4
79	MC3T3-E1 and RAW264.7 cell response to hydroxyapatite and alpha-type alumina adsorbed with bovine serum albumin. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1880-6	5.4	15
78	Effect of ammonia or nitric acid treatment on surface structure, in vitro apatite formation, and visible-light photocatalytic activity of bioactive titanium metal. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 503-8	6	3
77	Carboxymethyl dextran/magnetite hybrid microspheres designed for hyperthermia. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1125-9	4.5	13
76	Apatite mineralization behavior on polyglutamic acid hydrogels in aqueous condition: effects of molecular weight. <i>Bio-Medical Materials and Engineering</i> , 2013 , 23, 339-47	1	3
75	The Investigation of Bioactivity and Mechanical Properties of Glass Ionomer Cements Prepared from Al ₂ O ₃ -SiO ₂ Glass and Poly(γ -glutamic acid). <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	3

74	Preparation and in vitro apatite-forming ability of porous and non-porous titania microspheres. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 782-787	1	6
73	Organic-inorganic composites designed for biomedical applications. <i>Biological and Pharmaceutical Bulletin</i> , 2013 , 36, 1670-5	2.3	23
72	Effect of Autoclave and Hot Water Treatments on Surface Structure and In Vitro Apatite-Forming Ability of NaOH- and Heat-Treated Bioactive Titanium Metal. <i>Materials Transactions</i> , 2013 , 54, 811-816	1.3	13
71	Biom mineralization on chemically synthesized collagen containing immobilized poly- γ -glutamic acid. <i>Dental Materials Journal</i> , 2013 , 32, 544-9	2.5	11
70	Design of bone-integrating organic-inorganic composite suitable for bone repair. <i>Frontiers in Bioscience - Elite</i> , 2013 , 5, 333-40	1.6	8
69	Preparation of ferromagnetic microcapsules for hyperthermia using water/oil emulsion as a reaction field. <i>Materials Science and Engineering C</i> , 2012 , 32, 692-696	8.3	18
68	COMPARISON OF ADSORPTION BEHAVIOR OF BOVINE SERUM ALBUMIN AND OSTEOPOINTIN ON HYDROXYAPATITE AND ALUMINA. <i>Phosphorus Research Bulletin</i> , 2012 , 26, 23-28	0.3	6
67	Modification of polyglutamic acid with silanol groups and calcium salts to induce calcification in a simulated body fluid. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 581-94	2.9	17
66	Thermoreversible behavior of κ -carrageenan and its apatite-forming ability in simulated body fluid. <i>Materials Science and Engineering C</i> , 2011 , 31, 1472-1476	8.3	21
65	Biointegration of Prosthetic Devices 2011 , 777-802		
64	Apatite formation abilities of various carrageenan gels in simulated body environment. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 487-490	1	9
63	Fabrication of yttria microcapsules for radiotherapy from water/oil emulsion. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 479-482	1	12
62	Acceleration of calcium phosphate formation on bioactive PMMA-based bone cement by controlling spatial design. <i>Materials Science and Engineering C</i> , 2010 , 30, 624-630	8.3	2
61	Bioactive ceramic-based materials with designed reactivity for bone tissue regeneration. <i>Journal of the Royal Society Interface</i> , 2009 , 6 Suppl 3, S349-60	4.1	112
60	Apatite formation abilities and mechanical properties of hydroxyethylmethacrylate-based organic-inorganic hybrids incorporated with sulfonic groups and calcium ions. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 157-61	4.5	16
59	Apatite mineralization abilities and mechanical properties of covalently cross-linked pectin hydrogels. <i>Materials Science and Engineering C</i> , 2009 , 29, 1765-1769	8.3	24
58	Apatite Deposition on Hyaluronic Acid Gels in Biomimetic Conditions. <i>Transactions of the Materials Research Society of Japan</i> , 2009 , 34, 85-87	0.2	1
57	Development of Bioactive Organic-Inorganic Hybrids Through Sol-Gel Processing 2009 , 769-793		1

56	Effect of pulse current on structure and adhesion of apatite electrochemically deposited onto titanium substrates. <i>Journal of Materials Research</i> , 2008 , 23, 3176-3183	2.5	4
55	In vivo response of bioactive PMMA-based bone cement modified with alkoxysilane and calcium acetate. <i>Journal of Biomaterials Applications</i> , 2008 , 23, 213-28	2.9	15
54	Development of bioactive materials based on bone-bonding mechanism on metal oxides. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 260-264	1	12
53	Apatite-forming ability of organic-inorganic hybrids fabricated from glucomannan by chemical modification with alkoxysilane and calcium salt. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 46-49 ¹		1
52	Evaluation of apatite-forming ability and mechanical property of pectin hydrogels. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 74-78	1	14
51	Biomimetic deposition of hydroxyapatite on a synthetic polypeptide with beta sheet structure in a solution mimicking body fluid. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 387-93	4.5	18
50	Relationship between apatite-forming ability and mechanical properties of bioactive PMMA-based bone cement modified with calcium salts and alkoxysilane. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1399-405	4.5	24
49	Apatite-forming ability of polyglutamic acid hydrogels in a body-simulating environment. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2269-74	4.5	49
48	Design of novel bioactive materials through organic modification of calcium silicate. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1527-1533	6	21
47	Coating bone-like apatite onto organic substrates using solutions mimicking body fluid. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 33-8	4.4	62
46	In vitro apatite formation on polyamide containing carboxyl groups modified with silanol groups. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1037-42	4.5	26
45	Fabrication of poly(vinyl alcohol)apatite hybrids through biomimetic process. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1585-1588	6	17
44	Apatite-Forming Ability of Polyglutamic Acid Gel in Simulated Body Fluid: Effect of Cross-Linking Agent. <i>Key Engineering Materials</i> , 2007 , 330-332, 683-686	0.4	3
43	Synthesis of osteoconductive organic inorganic nanohybrids through modification of chitin with alkoxysilane and calcium chloride. <i>Journal of Biomaterials Applications</i> , 2007 , 22, 71-81	2.9	8
42	Effects of Cross-Linking Agent on Apatite-Forming Ability and Mechanical Property of Organic-Inorganic Hybrids Based on Starch. <i>Materials Transactions</i> , 2007 , 48, 317-321	1.3	11
41	Mechanical Properties and Cyclic Fatigue of the Newly Developed Ceramic Material for Artificial Joints. <i>Journal of the Ceramic Society of Japan</i> , 2007 , 115, 466-470	1	3
40	Coating of bone-like apatite for development of bioactive materials for bone reconstruction. <i>Biomedical Materials (Bristol)</i> , 2007 , 2, R17-23	3.5	44
39	Comparison of Apatite Formation on Polyamide Films Containing Carboxyl and Sulfonic Groups in a Solution Mimicking Body Fluid. <i>Key Engineering Materials</i> , 2006 , 309-311, 477-480	0.4	

38	Bioactivity and mechanical properties of cellulose/carbonate hydroxyapatite composites prepared in situ through mechanochemical reaction. <i>Journal of Biomaterials Applications</i> , 2006 , 21, 179-94	2.9	26
37	Removal of formaldehyde by hydroxyapatite layer biomimetically deposited on polyamide film. <i>Environmental Science & Technology</i> , 2006 , 40, 4281-5	10.3	40
36	Preparation of Porous Glass-Ceramics Containing Whitlockite and Diopside for Bone Repair. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 82-86		14
35	Synthesis of Bioactive Organic-Inorganic Hybrids From Tetraisopropyl Titanate and Hydroxyethylmethacrylate. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 87-91		7
34	Mechanical Properties of .BETA.-Tricalcium Phosphate/Poly(lactic Acid) Composites Prepared through Ball-Milling. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 332-335		4
33	Hydroxyapatite-Forming Ability and Mechanical Properties of Organic-Inorganic Hybrids Reinforced by Calcium Phosphates. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 692-696		3
32	FABRICATION OF INORGANIC-ORGANIC HYBRIDS UTILIZING BIOMIMETIC PROCESS. <i>Phosphorus Research Bulletin</i> , 2006 , 20, 79-88	0.3	
31	A Comparative Study of Apatite Deposition on Polyamide Films Containing Different Functional Groups under a Biomimetic Condition. <i>Journal of the Ceramic Society of Japan</i> , 2005 , 113, 588-592		16
30	Mesoporous Calcium Phosphate Via Post-Treatment of β -TCP. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 822-826	3.8	25
29	Apatite Deposition on Polyamide Film Containing Silanol Groups in Simulated Body Environment. <i>Key Engineering Materials</i> , 2005 , 284-286, 505-508	0.4	2
28	Control of the Microstructure of Porous Tricalcium Phosphate: Effects of addition of Mg, Zn and Fe. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005 , 52, 356-359	0.2	5
27	A novel covalently crosslinked gel of alginate and silane with the ability to form bone-like apatite. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 596-601		48
26	Coating of an apatite layer on polyamide films containing sulfonic groups by a biomimetic process. <i>Biomaterials</i> , 2004 , 25, 4529-34	15.6	139
25	PREPARATION AND CHARACTERISTICS OF CELLULOSE-HYDROXYAPATITE COMPOSITES THROUGH MECHANOCHEMICAL REACTION. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 197-202	0.3	1
24	DESIGN OF A NOVEL BIOACTIVE CALCIUM PHOSPHATE PASTE CONTAINING ACETYL CELLULOSE. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 203-208	0.3	1
23	DESIGN OF BONE-BONDING ORGANIC-INORGANIC HYBRIDS. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 59-66	0.3	
22	FABRICATION AND CHEMICAL DURABILITY OF POROUS BODIES CONSISTING OF BIPHASIC TRICALCIUM PHOSPHATES. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 95-100	0.3	17
21	Preparation of Bioactive Chitosan-hydroxyapatite Nanocomposites for Bone Repair through Mechanochemical Reaction. <i>Materials Transactions</i> , 2004 , 45, 994-998	1.3	33

20	Bioactive PMMA-Based Bone Cement Modified with Methacryloxypropyltrimethoxysilane and Calcium Salts-Effects of Calcium Salts on Apatite-Forming Ability-. <i>Journal of the Ceramic Society of Japan</i> , 2003 , 111, 738-742		17
19	Apatite deposition on polyamide films containing carboxyl group in a biomimetic solution. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 569-74	4.5	93
18	Deposition of bone-like apatite on silk fiber in a solution that mimics extracellular fluid. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 283-9		131
17	Preparation and assessment of revised simulated body fluids. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 188-95		783
16	Bioactive PMMA bone cement prepared by modification with methacryloxypropyltrimethoxysilane and calcium chloride. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 67, 1417-23	5.4	46
15	Apatite Deposition on Organic-inorganic Hybrids Prepared from Chitin by Modification with Alkoxysilane and Calcium Salt. <i>Key Engineering Materials</i> , 2003 , 254-256, 545-548	0.4	2
14	Synthesis of bioactive organic-inorganic nanohybrid for bone repair through sol-gel processing. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 511-5	1.3	30
13	Mechanism of bonelike apatite formation on bioactive tantalum metal in a simulated body fluid. <i>Biomaterials</i> , 2002 , 23, 827-32	15.6	189
12	Properties of Bone-bonding PMMA Cement. <i>Proceedings of the 1992 Annual Meeting of JSME/MMD</i> , 2002 , 2002, 5-6		
11	Mechanical properties of PMMA-based bone cement with enhanced biological compatibility via a chemical modification. <i>Proceedings of the 1992 Annual Meeting of JSME/MMD</i> , 2002 , 2002, 435-436		
10	Apatite-Forming Ability of Niobium Oxide Gels in a Simulated Body Fluid.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, 929-933		75
9	Induction and Acceleration of Bonelike Apatite Formation on Tantalum Oxide Gel in Simulated Body Fluid. <i>Journal of Sol-Gel Science and Technology</i> , 2001 , 21, 83-88	2.3	89
8	Bonding of alkali- and heat-treated tantalum implants to bone. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 53, 28-35		151
7	Bioactive tantalum metal prepared by NaOH treatment. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 35-42		112
6	Design of Bioactive Nano-Hybrids for Bone Tissue Regeneration339-366		
5	Apatite Deposition on OrganicInorganic Hybrids Prepared from Hydroxyethylmethacrylate by Modification with Alkoxysilane and Calcium Salt in Body Environment. <i>Ceramic Engineering and Science Proceedings</i> ,797-804	0.1	
4	Fabrication of Composite for Bone Repairing fromTricalcium Phosphate and Hydroxypropylcellulose215-220		
3	Apatite Formation on the Pmma Bone Cement Modified with Alkoxysilane and Calcium Salt in a Simulated Body Fluid233-238		

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1 Apatite-Polyglutamic Acid Composites Prepared Through Biomimetic Process. *Ceramic Engineering and Science Proceedings*, 181-187

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