Akiko Obata

List of Publications by Year
in descending order

39 papers	615 citations	623188 14 h-index	610482 24 g-index
39 all docs	39 docs citations	39 times ranked	776 citing authors

#	Article	IF	Citations
1	Electrospun microfiber meshes of silicon-doped vaterite/poly(lactic acid) hybrid for guided bone regeneration. Acta Biomaterialia, 2010, 6, 1248-1257.	4.1	91
2	Effects of Niobium Ions Released from Calcium Phosphate Invert Glasses Containing Nb₂O₅ on Osteoblast-Like Cell Functions. ACS Applied Materials & Interfaces, 2012, 4, 5684-5690.	4.0	70
3	Enhanced in vitro cell activity on silicon-doped vaterite/poly(lactic acid) composites. Acta Biomaterialia, 2009, 5, 57-62.	4.1	54
4	Siloxane-poly(lactic acid)-vaterite composites with 3D cotton-like structure. Journal of Materials Science: Materials in Medicine, 2012, 23, 2349-2357.	1.7	38
5	Stimulation of human mesenchymal stem cells and osteoblasts activities in vitro on siliconâ€releasable scaffolds. Journal of Biomedical Materials Research - Part A, 2009, 91A, 11-17.	2.1	31
6	Electrospinning 3D bioactive glasses for wound healing. Biomedical Materials (Bristol), 2020, 15, 015014.	1.7	30
7	Fabrication and inÂvitro characterization of electrospun poly (Î³-glutamic acid)-silica hybrid scaffolds for bone regeneration. Polymer, 2016, 91, 106-117.	1.8	28
8	Combinatorial effects of inorganic ions on adhesion and proliferation of osteoblastâ€like cells. Journal of Biomedical Materials Research - Part A, 2019, 107, 1042-1051.	2.1	28
9	Ion release from SrO-CaO-TiO2-P2O5 glasses in Tris buffer solution. Journal of the Ceramic Society of Japan, 2009, 117, 935-938.	0.5	24
10	Cotton wool-like poly(lactic acid)/vaterite composite scaffolds releasing soluble silica for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2013, 24, 1649-1658.	1.7	24
11	Cellular compatibility of boneâ€like apatite containing silicon species. Journal of Biomedical Materials Research - Part A, 2008, 85A, 140-144.	2.1	20
12	Structure and dissolution behavior of MgO–P₂O₅–TiO₂/Nb<sub>2</sub (Mg/P ≥ 1) invert glasses. Journal of the Ceramic Society of Japan, 2015, 123, 942-948.	0.5	17
13	Preparation of Antibacterial ZnO-CaO-P₂O₅-Nb₂O₅ Invert Glasses. Materials Transactions, 2016, 57, 2072-2076.	1.4	15
14	Construction and Characterization of Protein-Encapsulated Electrospun Fibermats Prepared from a Silica/Poly(Î³-glutamate) Hybrid. Langmuir, 2016, 32, 221-229.	1.6	15
15	Preparation of a Calcium Titanium Phosphate Glassâ€“Ceramic with Improved Chemical Durability. Journal of the American Ceramic Society, 2009, 92, 1709-1712.	1.9	14
16	Development of Magnesium and Siloxane-Containing Vaterite and Its Composite Materials for Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2015, 3, 195.	2.0	14
17	Hydroxyapatite Coatings Incorporating Silicon Ion Releasing System on Titanium Prepared Using Water Glass and Vaterite. Journal of the American Ceramic Society, 2011, 94, 2074-2079.	1.9	11
18	Nanomaterials for Medical Applications: Benefits and Risks. Journal of Nanomaterials, 2016, 2016, 1-2.	1.5	10

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19	Apatite-forming ability on titanium surface modified by hydrothermal treatment and ultraviolet irradiation. Journal of Materials Research, 2008, 23, 3169-3175.	1.2	9
20	New Fabrication Process of Layered Membranes Based on Poly(Lactic Acid) Fibers for Guided Bone Regeneration. Materials Transactions, 2009, 50, 1737-1741.	0.4	7
21	Preparation and Rheological Characterization of Imogolite Hydrogels. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	7
22	Silver-doped calcium silicate sol-gel glasses with a cotton-wool-like structure for wound healing. Materials Science and Engineering C, 2022, 134, 112561.	3.8	7
23	Enhancement of Bone-Like Apatite Forming Abilities of Calcium Phosphate Ceramics in SBF by Autoclaving. Journal of the Ceramic Society of Japan, 2006, 114, 63-66.	1.3	6
24	Preparation of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)-based composites releasing soluble silica for bone regeneration. Journal of the Ceramic Society of Japan, 2013, 121, 753-758.	0.5	6
25	Construction of DNAzyme-Encapsulated Fibermats Using the Precursor Network Polymer of Poly(Î³-glutamate) and 4-Glycidyloxypropyltrimethoxysilane. Langmuir, 2017, 33, 4028-4035.	1.6	6
26	Coaxial Electrospun Fibermat of Poly(AM/DAAM)/ADH and PCL: Versatile Platform for Functioning Active Enzymes. Bulletin of the Chemical Society of Japan, 2020, 93, 1155-1163.	2.0	6
27	Preparation of Poly(lactic acid) Composite Hollow Spheres Containing Calcium Carbonate, .BETA.-Tricalcium Phosphate and Siloxane. Journal of the Ceramic Society of Japan, 2006, 114, 743-747.	1.3	4
28	Preparation of bone-like apatite coating on mullite ceramics with silicon-ion releasability. Journal of the Ceramic Society of Japan, 2008, 116, 14-19.	0.5	4
29	Sintering and Crystallization of Phosphate Glasses by <scp><scp>CO₂</scp></scp>â€Laser Irradiation on Hydroxyapatite Ceramics. International Journal of Applied Ceramic Technology, 2012, 9, 541-549.	1.1	4
30	Electrospun cottonâ€“wool-like silica/gelatin hybrids with covalent coupling. Journal of Sol-Gel Science and Technology, 2021, 97, 11-26.	1.1	4
31	Structural Analysis of 65ZnOâ€“30P₂O₅â€“5Nb₂O₅3 Invert Glass Using X-ray Photoelectron Spectroscopy. Materials Transactions, 2019, 60, 1707-1710.	1.1	3
32	SiO2-CaO-P2O5 sol-gel-derived glass coating on porous .BETA.-tricalcium phosphate ceramics. Journal of the Ceramic Society of Japan, 2009, 117, 1120-1125.	0.5	2
33	Induction of hydroxycarbonate apatite formation on polyethylene or alumina substrates by spherical vaterite particles deposition. Materials Science and Engineering C, 2012, 32, 1976-1981.	3.8	2
34	Development of biomaterials with inorganic ions stimulating osteogenic cell functions. Journal of the Ceramic Society of Japan, 2013, 121, 377-381.	0.5	2
35	Preparation of siloxane-containing vaterite/poly (L-lactic acid) hybrid microbeads with silicate and calcium ions-releasing ability. Journal of the Ceramic Society of Japan, 2010, 118, 541-544.	0.5	1
36	Preparation of siloxane-containing vaterite/poly (lactic acid) hybrid fibermats with improved ductility for bone regeneration. Journal of the Ceramic Society of Japan, 2010, 118, 623-625.	0.5	1

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37	MECHANICAL-TENSILE STRENGTHS AND CELL-PROLIFERATIVE ACTIVITIES OF ELECTROSPUN POLY(LACTIC-co-GLYCOLIC ACID) COMPOSITES CONTAINING ^|^beta;-TRICALCIUM PHOSPHATE. Phosphorus Research Bulletin, 2012, 26, 109-112.	0.1	0
38	THE ROLE OF NIOBIUM IONS IN CALCIUM PHOSPHATE INVERT GLASSES FOR BONE REGENERATION. Phosphorus Research Bulletin, 2015, 30, 30-34.	0.1	0
39	Development of Scaffold Materials with Ion-releasing Ability for Stimulating Osteoblasts. Materia Japan, 2020, 59, 606-611.	0.1	0