Berit Lokensgard Strand

List of Publications by Year
in descending order

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57	4,557	147566	143772
papers	citations	31 h-index	57 g-index

58	58	58	5195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Ca2+, Ba2+, and Sr2+ on Alginate Microbeads. Biomacromolecules, 2006, 7, 1471-1480.	2.6	696
2	Alginate-based microcapsules for immunoisolation of pancreatic islets. Biomaterials, 2006, 27, 5603-5617.	5.7	467
3	Alginate encapsulation as long-term immune protection of allogeneic pancreatic islet cells transplanted into the omental bursa of macaques. Nature Biomedical Engineering, 2018, 2, 810-821.	11.6	242
4	Poly-L-Lysine Induces Fibrosis on Alginate Microcapsules via the Induction of Cytokines. Cell Transplantation, 2001, 10, 263-275.	1.2	228
5	Multiscale requirements for bioencapsulation in medicine and biotechnology. Biomaterials, 2009, 30, 2559-2570.	5.7	198
6	Sustained function of alginate-encapsulated human islet cell implants in the peritoneal cavity of mice leading to a pilot study in a type 1 diabetic patient. Diabetologia, 2013, 56, 1605-1614.	2.9	190
7	Alginate-polylysine-alginate microcapsules: effect of size reduction on capsule properties. Journal of Microencapsulation, 2002, 19, 615-630.	1.2	134
8	Alginates as biomaterials in tissue engineering. Carbohydrate Chemistry, 2011, , 227-258.	0.3	132
9	Visualization of alginate-poly-L-lysine-alginate microcapsules by confocal laser scanning microscopy. Biotechnology and Bioengineering, 2003, 82, 386-394.	1.7	130
10	Advances in biocompatibility and physico-chemical characterization of microspheres for cell encapsulation. Advanced Drug Delivery Reviews, 2014, 67-68, 111-130.	6.6	129
11	Efficient functionalization of alginate biomaterials. Biomaterials, 2016, 80, 146-156.	5.7	108
12	Alginate/lactoseâ€modified chitosan hydrogels: A bioactive biomaterial for chondrocyte encapsulation. Journal of Biomedical Materials Research - Part A, 2008, 84A, 364-376.	2.1	103
13	Molecular Engineering as an Approach to Design New Functional Properties of Alginate. Biomacromolecules, 2007, 8, 2809-2814.	2.6	101
14	Current and Future Perspectives on Alginate Encapsulated Pancreatic Islet. Stem Cells Translational Medicine, 2017, 6, 1053-1058.	1.6	95
15	Alginate microbeads are complement compatible, in contrast to polycation containing microcapsules, as revealed in a human whole blood model. Acta Biomaterialia, 2011, 7, 2566-2578.	4.1	91
16	Ionic and acid gel formation of epimerised alginates; the effect of AlgE4. International Journal of Biological Macromolecules, 2000, 27, 117-122.	3.6	85
17	Osteogenic Differentiation of Human Mesenchymal Stem Cells in Mineralized Alginate Matrices. PLoS ONE, 2015, 10, e0120374.	1.1	85
18	Viscoelastic properties of nanocellulose based inks for 3D printing and mechanical properties of CNF/alginate biocomposite gels. Cellulose, 2019, 26, 581-595.	2.4	77

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19	Encapsulation of Human Islets in Novel Inhomogeneous Alginate-Ca2+/Ba2+Microbeads:In VitroandIn VivoFunction. Artificial Cells, Blood Substitutes, and Biotechnology, 2008, 36, 403-420.	0.9	74
20	Mechanical Properties of Composite Hydrogels of Alginate and Cellulose Nanofibrils. Polymers, 2017, 9, 378.	2.0	74
21	Binding and leakage of barium in alginate microbeads. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2939-2947.	2.1	69
22	Alginate-controlled formation of nanoscale calcium carbonate and hydroxyapatite mineral phase within hydrogel networks. Acta Biomaterialia, 2010, 6, 3665-3675.	4.1	68
23	Microcapsules made by enzymatically tailored alginate. Journal of Biomedical Materials Research - Part A, 2003, 64A, 540-550.	2.1	65
24	Mechanical Properties of C-5 Epimerized Alginates. Biomacromolecules, 2008, 9, 2360-2368.	2.6	64
25	RGDâ€peptide modified alginate by a chemoenzymatic strategy for tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2015, 103, 896-906.	2.1	62
26	Cell-compatible covalently reinforced beads obtained from a chemoenzymatically engineered alginate. Biomaterials, 2006, 27, 4726-4737.	5.7	61
27	Effect of Elongation of Alternating Sequences on Swelling Behavior and Large Deformation Properties of Natural Alginate Gels. Journal of Physical Chemistry B, 2009, 113, 12916-12922.	1.2	50
28	Analysis of G-Block Distributions and Their Impact on Gel Properties of in Vitro Epimerized Mannuronan. Biomacromolecules, 2013, 14, 3409-3416.	2.6	48
29	Growth and Nucleation of Calcium Carbonate Vaterite Crystals in Presence of Alginate. Crystal Growth and Design, 2009, 9, 5176-5183.	1.4	45
30	Survival of human islets in microbeads containing high guluronic acid alginate crosslinked with Ca²⁺ and Ba²⁺. Xenotransplantation, 2012, 19, 355-364.	1.6	45
31	The induction of cytokines by polycation containing microspheres by a complement dependent mechanism. Biomaterials, 2013, 34, 621-630.	5.7	35
32	Encapsulation boosts islet-cell signature in differentiating human induced pluripotent stem cells via integrin signalling. Scientific Reports, 2020, 10, 414.	1.6	33
33	Efficient Grafting of Cyclodextrin to Alginate and Performance of the Hydrogel for Release of Model Drug. Scientific Reports, 2019, 9, 9325.	1.6	32
34	Lyase-catalyzed degradation of alginate in the gelled state: Effect of gelling ions and lyase specificity. Carbohydrate Polymers, 2014, 110, 100-106.	5.1	29
35	Gelling kinetics and in situ mineralization of alginate hydrogels: A correlative spatiotemporal characterization toolbox. Acta Biomaterialia, 2016, 44, 243-253.	4.1	27
36	Evaluation of Different Types of Alginate Microcapsules as Bioreactors for Producing Endostatin. Cell Transplantation, 2003, 12, 351-364.	1.2	26

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37	Viscoelastic properties of mineralized alginate hydrogel beads. Journal of Materials Science: Materials in Medicine, 2012, 23, 1619-1627.	1.7	26
38	A correlative spatiotemporal microscale study of calcium phosphate formation and transformation within an alginate hydrogel matrix. Acta Biomaterialia, 2016, 44, 254-266.	4.1	25
39	Biocomposites prepared by alkaline phosphatase mediated mineralization of alginate microbeads. RSC Advances, 2012, 2, 1457-1465.	1.7	24
40	A Recommended Laparoscopic Procedure for Implantation of Microcapsules in the Peritoneal Cavity of Non-Human Primates. Journal of Surgical Research, 2011, 168, e117-e123.	0.8	23
41	Mechanical Properties of Ca-Saturated Hydrogels with Functionalized Alginate. Gels, 2019, 5, 23.	2.1	23
42	Formation of Hydroxyapatite via Transformation of Amorphous Calcium Phosphate in the Presence of Alginate Additives. Crystal Growth and Design, 2019, 19, 7077-7087.	1.4	22
43	The role of capsule composition and biologic responses in the function of transplanted microencapsulated islets of langerhans1. Transplantation, 2003, 76, 275-279.	0.5	21
44	Nucleation and Growth of Brushite in the Presence of Alginate. Crystal Growth and Design, 2015, 15, 5397-5405.	1.4	20
45	Culture of hESCâ€derived pancreatic progenitors in alginateâ€based scaffolds. Journal of Biomedical Materials Research - Part A, 2015, 103, 3717-3726.	2.1	19
46	Transformation of brushite to hydroxyapatite and effects of alginate additives. Journal of Crystal Growth, 2017, 468, 774-780.	0.7	19
47	Transplantation of Alginate Microcapsules with Proliferating Cells in Mice. Annals of the New York Academy of Sciences, 2001, 944, 216-225.	1.8	18
48	Polymorph Switching in the Calcium Carbonate System by Well-Defined Alginate Oligomers. Crystal Growth and Design, 2011, 11, 520-529.	1.4	18
49	Injectable Gel Form of a Decellularized Bladder Induces Adipose-Derived Stem Cell Differentiation into Smooth Muscle Cells In Vitro. International Journal of Molecular Sciences, 2020, 21, 8608.	1.8	18
50	Alginate hydrogels functionalized with Î²â€cyclodextrin as a local paclitaxel delivery system. Journal of Biomedical Materials Research - Part A, 2021, 109, 2625-2639.	2.1	18
51	Relationship between energetic stress and pro-apoptotic/cytoprotective kinase mechanisms in intestinal preservation. Surgery, 2007, 141, 795-803.	1.0	15
52	High resolution imaging of soft alginate hydrogels by atomic force microscopy. Carbohydrate Polymers, 2022, 276, 118804.	5.1	12
53	Microcapsule Formulation and Formation. Focus on Biotechnology, 2004, , 165-183.	0.4	11
54	Click chemistry for block polysaccharides with dihydrazide and dioxyamine linkers - A review. Carbohydrate Polymers, 2022, 278, 118840.	5.1	7

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55	Sulfated Alginate Reduces Pericapsular Fibrotic Overgrowth on Encapsulated cGMP-Compliant hPSC-Hepatocytes in Mice. Frontiers in Bioengineering and Biotechnology, 2021, 9, 816542.	2.0	7
56	Pericapsular fibrotic overgrowth mitigated in immunocompetent mice through microbead formulations based on sulfated or intermediate G alginates. Acta Biomaterialia, 2022, 137, 172-185.	4.1	6
57	Alginate and tunicate nanocellulose composite microbeads â€“ Preparation, characterization and cell encapsulation. Carbohydrate Polymers, 2022, 286, 119284.	5.1	6