

# Hanna Tiainen

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,093  
citations

394286

19  
h-index

454834

30  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the foreign body response of titanium implants modified with polyphenolic coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1341-1355.	2.1	5
2	Sodium alendronate loaded poly( $\epsilon$ -lactide-co-glycolide) microparticles immobilized on ceramic scaffolds for local treatment of bone defects. <i>International Journal of Energy Production and Management</i> , 2021, 8, 293-302.	1.9	13
3	Development and initial testing of an in vitro model simulating class II furcation defects. <i>Clinical and Experimental Dental Research</i> , 2021, 7, 179-188.	0.8	1
4	Multifunctional Surfaces for Improving Soft Tissue Integration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001985.	3.9	11
5	Human Platelet Lysate-Loaded Poly(ethylene glycol) Hydrogels Induce Stem Cell Chemotaxis <i>In Vitro</i> . <i>Biomacromolecules</i> , 2021, 22, 3486-3496.	2.6	11
6	Highly porous Sr-doped TiO <sub>2</sub> ceramics maintain compressive strength after grain boundary corrosion. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5721-5727.	2.8	5
7	Impact of simultaneous placement of implant and block bone graft substitute: an in vivo peri-implant defect model. <i>Biomaterials Research</i> , 2021, 25, 43.	3.2	6
8	Tannic Acid Radicals in the Presence of Alkali Metal Salts and Their Impact on the Formation of Silicate-Phenolic Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52457-52466.	4.0	18
9	Osteogenic potential of poly(ethylene glycol)-amorphous calcium phosphate composites on human mesenchymal stem cells. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142092684.	2.3	30
10	Comparison of titanium dioxide scaffold with commercial bone graft materials through micro-finite element modelling in flow perfusion. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 311-324.	1.6	18
11	Silicate-Phenolic Networks: Coordination-Mediated Deposition of Bioinspired Tannic Acid Coatings. <i>Chemistry - A European Journal</i> , 2019, 25, 9870-9874.	1.7	20
12	<i>In Vitro</i> Performance of Bioinspired Phenolic Nanocoatings for Endosseous Implant Applications. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3340-3351.	2.6	11
13	Stabilisation of amorphous calcium phosphate in polyethylene glycol hydrogels. <i>Acta Biomaterialia</i> , 2019, 90, 132-145.	4.1	27
14	Silicic Acid-Mediated Formation of Tannic Acid Nanocoatings. <i>Langmuir</i> , 2019, 35, 3327-3336.	1.6	21
15	Grain boundary corrosion in TiO <sub>2</sub> bone scaffolds doped with group II cations. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1577-1585.	2.8	5
16	Coagulated concentrated anatase slurry leads to improved strength of ceramic TiO <sub>2</sub> bone scaffolds. <i>Ceramics International</i> , 2018, 44, 6265-6271.	2.3	10
17	Attachment and spatial organisation of human mesenchymal stem cells on poly(ethylene glycol) hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 46-53.	1.5	10
18	Injectable synthetic hydrogel for bone regeneration: Physicochemical characterisation of a high and a low pH gelling system. <i>Materials Science and Engineering C</i> , 2018, 90, 67-76.	3.8	11

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19	Impact of particulate deproteinized bovine bone mineral and porous titanium granules on early stability and osseointegration of dental implants in narrow marginal circumferential bone defects. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2018, 47, 1086-1094.	0.7	7
20	Polycaprolactone / bioactive glass hybrid scaffolds for bone regeneration. <i>Biomedical Glasses</i> , 2018, 4, 108-122.	2.4	27
21	Antibacterial Surface Coating for Bone Scaffolds Based on the Dark Catalytic Effect of Titanium Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35784-35793.	4.0	15
22	Adiponectin Reduces Bone Stiffness: Verified in a Three-Dimensional Artificial Human Bone Model In Vitro. <i>Frontiers in Endocrinology</i> , 2018, 9, 236.	1.5	11
23	Ceramic scaffolds with immobilized vancomycin-loaded poly(lactide-co-glycolide) microparticles for bone defects treatment. <i>Materials Letters</i> , 2017, 190, 67-70.	1.3	17
24	Antibacterial effect of hydrogen peroxide-titanium dioxide suspensions in the decontamination of rough titanium surfaces. <i>Biofouling</i> , 2017, 33, 451-459.	0.8	27
25	Oxidative power of aqueous non-irradiated TiO <sub>2</sub> -H <sub>2</sub> O <sub>2</sub> suspensions: Methylene blue degradation and the role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 9-15.	10.8	57
26	Deposition Kinetics of Bioinspired Phenolic Coatings on Titanium Surfaces. <i>Langmuir</i> , 2016, 32, 8050-8060.	1.6	76
27	Ceramic scaffolds enriched with gentamicin loaded poly(lactide-co-glycolide) microparticles for prevention and treatment of bone tissue infections. <i>Materials Science and Engineering C</i> , 2016, 69, 856-864.	3.8	36
28	TiO <sub>2</sub> scaffolds in peri-implant dehiscence defects: an experimental pilot study. <i>Clinical Oral Implants Research</i> , 2016, 27, 1200-1206.	1.9	7
29	Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials. <i>Journal of Materials Chemistry B</i> , 2016, 4, 282-291.	2.9	39
30	Enhanced X-ray absorption for micro-CT analysis of low density polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 805-823.	1.9	18
31	Atomic layer deposited TiO <sub>2</sub> protects porous ceramic foams from grain boundary corrosion. <i>Corrosion Science</i> , 2016, 106, 35-42.	3.0	9
32	Effect of cathodic polarization on coating doxycycline on titanium surfaces. <i>Materials Science and Engineering C</i> , 2016, 63, 359-366.	3.8	10
33	Grain boundary corrosion of highly porous ceramic TiO <sub>2</sub> foams is reduced by annealing and quenching. <i>Journal of the European Ceramic Society</i> , 2016, 36, 179-188.	2.8	5
34	Alginate hydrogel enriched with enamel matrix derivative to target osteogenic cell differentiation in TiO <sub>2</sub> scaffolds. <i>Journal of Tissue Engineering</i> , 2015, 6, 204173141557587.	2.3	13
35	Antibacterial effect of doxycycline-coated dental abutment surfaces. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 055003.	1.7	18
36	Design of an inorganic dual-paste apatite cement using cation exchange. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 63.	1.7	23

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37	Cell growth on pore-graded biomimetic TiO <sub>2</sub> bone scaffolds. Journal of Biomaterials Applications, 2015, 29, 1284-1295.	1.2	8
38	The influence of sintering conditions on microstructure and mechanical properties of titanium dioxide scaffolds for the treatment of bone tissue defects. Acta of Bioengineering and Biomechanics, 2015, 17, 3-9.	0.2	4
39	The effect of hydrofluoric acid treatment of titanium and titanium dioxide surface on primary human osteoblasts. Clinical Oral Implants Research, 2014, 25, 385-394.	1.9	15
40	Coating of metal implant materials with strontium. Journal of Materials Science: Materials in Medicine, 2013, 24, 2537-2548.	1.7	15
41	Processing of highly porous TiO <sub>2</sub> bone scaffolds with improved compressive strength. Journal of the European Ceramic Society, 2013, 33, 15-24.	2.8	47
42	Effect of TiO <sub>2</sub> scaffolds coated with alginate hydrogel containing a proline-rich peptide on osteoblast growth and differentiation <i>in vitro</i> . Journal of Biomedical Materials Research - Part A, 2013, 101A, 1768-1777.	2.1	12
43	Enhanced <i>in vitro</i> osteoblast differentiation on TiO <sub>2</sub> scaffold coated with alginate hydrogel containing simvastatin. Journal of Tissue Engineering, 2013, 4, 204173141351567.	2.3	30
44	Dimensional Ridge Preservation with a Novel Highly Porous TiO <sub>2</sub> Scaffold: An Experimental Study in Minipigs. International Journal of Biomaterials, 2012, 2012, 1-9.	1.1	2
45	Enhanced Osteoblast Differentiation on Scaffolds Coated with TiO <sub>2</sub> Compared to SiO <sub>2</sub> and CaP Coatings. Biointerphases, 2012, 7, 36.	0.6	29
46	Effect of ZrO <sub>2</sub> addition on the mechanical properties of porous TiO <sub>2</sub> bone scaffolds. Materials Science and Engineering C, 2012, 32, 1386-1393.	3.8	21
47	Clinical color intensity of white spot lesions might be a better predictor of enamel demineralization depth than traditional clinical grading. American Journal of Orthodontics and Dentofacial Orthopedics, 2012, 142, 191-198.	0.8	18
48	Bone formation in TiO <sub>2</sub> bone scaffolds in extraction sockets of minipigs. Acta Biomaterialia, 2012, 8, 2384-2391.	4.1	56
49	TiO <sub>2</sub> Scaffolds Sustain Differentiation of MC3T3-E1 Cells. Journal of Biomaterials and Tissue Engineering, 2012, 2, 336-344.	0.0	14
50	A Novel Ultra-porous Titanium Dioxide Ceramic with Excellent Biocompatibility. Journal of Biomaterials Applications, 2011, 25, 559-580.	1.2	67
51	The effect of fluoride surface modification of ceramic TiO <sub>2</sub> on the surface properties and biological response of osteoblastic cells <i>in vitro</i> . Biomedical Materials (Bristol), 2011, 6, 045006.	1.7	17
52	Ultra-porous titanium oxide scaffold with high compressive strength. Journal of Materials Science: Materials in Medicine, 2010, 21, 2783-2792.	1.7	69
53	Impact of trace elements on biocompatibility of titanium scaffolds. Biomedical Materials (Bristol), 2010, 5, 015003.	1.7	20