Peter Thomsen

List of Publications by Citations

224 papers	10,832 citations	52 h-index	95 g-index
229 ext. papers	12,049 ext. citations	6.4 avg, IF	6.21 L-index

#	Paper	IF	Citations
224	Biological factors contributing to failures of osseointegrated oral implants. (II). Etiopathogenesis. *European Journal of Oral Sciences*, **1998**, 106, 721-64	2.3	817
223	Biological factors contributing to failures of osseointegrated oral implants. (I). Success criteria and epidemiology. *European Journal of Oral Sciences*, **1998**, 106, 527-51	2.3	769
222	Titanium in Medicine. *Engineering Materials*, **2001**,	0.4	485
221	Aseptic loosening, not only a question of wear: a review of different theories. *Monthly Notices of the Royal Astronomical Society: Letters*, **2006**, 77, 177-97	4.3	418
220	Bone response to surface-modified titanium implants: studies on the early tissue response to machined and electropolished implants with different oxide thicknesses. *Biomaterials*, **1996**, 17, 605-16	15.6	286
219	Guided bone regeneration: materials and biological mechanisms revisited. *European Journal of Oral Sciences*, **2017**, 125, 315-337	2.3	254
218	Bone response to surface modified titanium implants: studies on electropolished implants with different oxide thicknesses and morphology. *Biomaterials*, **1994**, 15, 1062-74	15.6	223
217	Titanium oral implants: surface characteristics, interface biology and clinical outcome. *Journal of the Royal Society Interface*, **2010**, 7 Suppl 5, S515-27	4.1	147
216	Monocyte exosomes stimulate the osteogenic gene expression of mesenchymal stem cells. *PLoS ONE*, **2013**, 8, e75227	3.7	140
215	Structure of the interface between rabbit cortical bone and implants of gold, zirconium and titanium. *Journal of Materials Science: Materials in Medicine*, **1997**, 8, 653-65	4.5	140
214	Biomechanical characterization of osseointegration during healing: an experimental in vivo study in the rat. *Biomaterials*, **1997**, 18, 969-78	15.6	139
213	Novel markers of osteogenic and adipogenic differentiation of human bone marrow stromal cells identified using a quantitative proteomics approach. *Stem Cell Research*, **2014**, 12, 153-65	1.6	128
212	Response of rat osteoblast-like cells to microstructured model surfaces in vitro. *Biomaterials*, **2003**, 24, 649-54	15.6	125
211	Commercially pure titanium (cp-Ti) versus titanium alloy (Ti6Al4V) materials as bone anchored implants - Is one truly better than the other?. *Materials Science and Engineering C*, **2016**, 62, 960-6	8.3	123
210	3D printed Ti6Al4V implant surface promotes bone maturation and retains a higher density of less aged osteocytes at the bone-implant interface. *Acta Biomaterialia*, **2016**, 30, 357-367	10.8	119
209	Osseointegration and current interpretations of the bone-implant interface. *Acta Biomaterialia*, **2019**, 84, 1-15	10.8	117
208	Influence of lidocaine on leukocyte function in the surgical wound. *Anesthesiology*, **1992**, 77, 74-8	4.3	115

207	The inflammatory cell influx and cytokines changes during transition from acute inflammation to fibrous repair around implanted materials. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 669-87	3.5	114
206	Inhibitory effects of amide local anaesthetics on stimulus-induced human leukocyte metabolic activation, LTB4 release and IL-1 secretion in vitro. *Acta Anaesthesiologica Scandinavica*, **1993**, 37, 159-65	1.9	114
205	Advances in dental implant materials and tissue regeneration. *Periodontology 2000*, **2006**, 41, 136-56	12.9	107
204	Bone response to laser-induced micro- and nano-size titanium surface features. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2011**, 7, 220-7	6	102
203	Structure of the bone-titanium interface in retrieved clinical oral implants. *Clinical Oral Implants Research*, **1991**, 2, 103-11	4.8	100
202	Macrophage interactions with modified material surfaces. *Current Opinion in Solid State and Materials Science*, **2001**, 5, 163-176	12	98
201	Endotoxin and interleukin-1 alpha in the cervical mucus and vaginal fluid of pregnant women with bacterial vaginosis. *American Journal of Obstetrics and Gynecology*, **1993**, 169, 1161-6	6.4	98
200	The role of whole blood in thrombin generation in contact with various titanium surfaces. *Biomaterials*, **2007**, 28, 966-74	15.6	96
199	Leukocyte supplementation increases the luteinizing hormone-induced ovulation rate in the in vitro-perfused rat ovary. *Biology of Reproduction*, **1991**, 44, 791-7	3.9	96
198	Integration of titanium implants in irradiated bone. Histologic and clinical study. *Annals of Otology, Rhinology and Laryngology*, **1988**, 97, 337-40	2.1	96
197	Long-term osseointegration of 3D printed CoCr constructs with an interconnected open-pore architecture prepared by electron beam melting. *Acta Biomaterialia*, **2016**, 36, 296-309	10.8	93
196	Stainless steel screws coated with bisphosphonates gave stronger fixation and more surrounding bone. Histomorphometry in rats. *Bone*, **2008**, 42, 365-71	4.7	92
195	The stimulation of an osteogenic response by classical monocyte activation. *Biomaterials*, **2011**, 32, 8190-204	15.6	91
194	Early tissue response to titanium implants inserted in rabbit cortical bone. *Journal of Materials Science: Materials in Medicine*, **1993**, 4, 240-250	4.5	90
193	Long-term biocompatibility and osseointegration of electron beam melted, free-form-fabricated solid and porous titanium alloy: experimental studies in sheep. *Journal of Biomaterials Applications*, **2013**, 27, 1003-16	2.9	85
192	Guided bone regeneration is promoted by the molecular events in the membrane compartment. *Biomaterials*, **2016**, 84, 167-183	15.6	82
191	Mesenchymal stem cell-derived exosomes have altered microRNA profiles and induce osteogenic differentiation depending on the stage of differentiation. *PLoS ONE*, **2018**, 13, e0193059	3.7	78
190	Guided bone regeneration using resorbable membrane and different bone substitutes: Early histological and molecular events. *Acta Biomaterialia*, **2016**, 29, 409-423	10.8	76

189	Surface analysis of failed oral titanium implants. *Journal of Biomedical Materials Research Part B*, **1999**, 48, 559-68		76
188	Biomineralized strontium-substituted apatite/titanium dioxide coating on titanium surfaces. *Acta Biomaterialia*, **2010**, 6, 1591-600	10.8	71
187	Histopathologic observations on late oral implant failures. *Clinical Implant Dentistry and Related Research*, **2000**, 2, 18-32	3.9	70
186	Integrin and chemokine receptor gene expression in implant-adherent cells during early osseointegration. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 969-80	4.5	69
185	Cell and soft tissue interactions with methyl- and hydroxyl-terminated alkane thiols on gold surfaces. *Biomaterials*, **1997**, 18, 1059-68	15.6	67
184	Electron beam-melted, free-form-fabricated titanium alloy implants: Material surface characterization and early bone response in rabbits. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 90, 35-44	3.5	67
183	Barrier membranes: More than the barrier effect?. *Journal of Clinical Periodontology*, **2019**, 46 Suppl 21, 103-123	7.7	65
182	The correlation between gene expression of proinflammatory markers and bone formation during osseointegration with titanium implants. *Biomaterials*, **2011**, 32, 374-86	15.6	65
181	Characterization of the surface properties of commercially available dental implants using scanning electron microscopy, focused ion beam, and high-resolution transmission electron microscopy. *Clinical Implant Dentistry and Related Research*, **2008**, 10, 11-22	3.9	65
180	Ultrastructure of the bone-titanium interface in rabbits. *Journal of Materials Science: Materials in Medicine*, **1992**, 3, 262-271	4.5	64
179	Difference in tissue response to nitrogen-ion-implanted titanium and c.p. titanium in the abdominal wall of the rat. *Journal of Biomedical Materials Research Part B*, **1990**, 24, 847-60		62
178	Laser-Modified Surface Enhances Osseointegration and Biomechanical Anchorage of Commercially Pure Titanium Implants for Bone-Anchored Hearing Systems. *PLoS ONE*, **2016**, 11, e0157504	3.7	62
177	A 5-year follow-up comparative analysis of the efficacy of various osseointegrated dental implant systems: a systematic review of randomized controlled clinical trials. *International Journal of Oral and Maxillofacial Implants*, **2005**, 20, 557-68	2.8	60
176	Human embryonic mesodermal progenitors highly resemble human mesenchymal stem cells and display high potential for tissue engineering applications. *Tissue Engineering - Part A*, **2010**, 16, 2161-82	3.9	59
175	Morphologic and immunohistochemical observations of tissues surrounding retrieved transvenous pacemaker leads. *Journal of Biomedical Materials Research Part B*, **2002**, 63, 548-58		55
174	Long-term biocompatibility and osseointegration of electron beam melted, free-formFabricated solid and porous titanium alloy: Experimental studies in sheep. *Journal of Biomaterials Applications*, **2013**, 27, 1003-1016	2.9	54
173	Method for ultrastructural studies of the intact tissue-metal interface. *Biomaterials*, **1990**, 11, 596-601	15.6	54
172	Preparation of multilayer plasma protein films on silicon by EDC/NHS coupling chemistry. *Colloids and Surfaces B: Biointerfaces*, **2003**, 28, 261-272	6	51

171	In vivo cell recruitment, cytokine release and chemiluminescence response at gold, and thiol functionalized surfaces. *Biomaterials*, **1999**, 20, 2123-37	15.6	51
170	Light and transmission electron microscopy used to study the tissue morphology close to implants. *Biomaterials*, **1985**, 6, 421-4	15.6	51
169	Bone response to a novel Ti-Ta-Nb-Zr alloy. *Acta Biomaterialia*, **2015**, 20, 165-175	10.8	50
168	Technique for preparation and characterization in cross-section of oral titanium implant surfaces using focused ion beam and transmission electron microscopy. *Journal of Biomedical Materials Research - Part A*, **2008**, 87, 1003-9	5.4	50
167	The influence of controlled surface nanotopography on the early biological events of osseointegration. *Acta Biomaterialia*, **2017**, 53, 559-571	10.8	49
166	Bone response to surface modified titanium implants - studies on the tissue response after 1 year to machined and electropolished implants with different oxide thicknesses. *Journal of Materials Science: Materials in Medicine*, **1997**, 8, 721-9	4.5	49
165	Adhesion, apoptosis and cytokine release of human mononuclear cells cultured on degradable poly(urethane urea), polystyrene and titanium in vitro. *Biomaterials*, **2003**, 24, 2843-52	15.6	49
164	Immunohistochemical studies on the distribution of albumin, fibrinogen, fibronectin, IgG and collagen around PTFE and titanium implants. *Biomaterials*, **1996**, 17, 1779-86	15.6	48
163	Immunohistochemistry of soft tissues surrounding late failures of Br□emark implants. *Clinical Oral Implants Research*, **1997**, 8, 352-66	4.8	47
162	The bone-implant interface - nanoscale analysis of clinically retrieved dental implants. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1729-37	6	46
161	Strontium-doped calcium phosphate and hydroxyapatite granules promote different inflammatory and bone remodelling responses in normal and ovariectomised rats. *PLoS ONE*, **2013**, 8, e84932	3.7	46
160	Hydroxylapatite growth on single-crystal rutile substrates. *Biomaterials*, **2008**, 29, 3317-23	15.6	46
159	IL-1alpha, IL-1beta and TNF-alpha secretion during in vivo/ex vivo cellular interactions with titanium and copper. *Biomaterials*, **2003**, 24, 461-8	15.6	46
158	Hydroxyapatite coating affects the Wnt signaling pathway during peri-implant healing in vivo. *Acta Biomaterialia*, **2014**, 10, 1451-62	10.8	45
157	Fibrous capsule formation around titanium and copper. *Journal of Biomedical Materials Research - Part A*, **2008**, 85, 888-96	5.4	45
156	In vivo cytokine secretion and NF-kappaB activation around titanium and copper implants. *Biomaterials*, **2005**, 26, 519-27	15.6	45
155	Implants in the abdominal wall of the rat. *Scandinavian Journal of Plastic and Reconstructive Surgery*, **1986**, 20, 173-82		45
154	Biomechanical, histological and ultrastructural analyses of laser micro- and nano-structured titanium implant after 6 months in rabbit. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2011**, 97, 289-98	3.5	44

153	Nanostructured model implants for in vivo studies: influence of well-defined nanotopography on de novo bone formation on titanium implants. *International Journal of Nanomedicine*, **2011**, 6, 3415-28	7.3	43
152	Premixed acidic calcium phosphate cement: characterization of strength and microstructure. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 93, 436-41	3.5	43
151	Short-term bone response to titanium implants coated with thin radiofrequent magnetron-sputtered hydroxyapatite in rabbits. *Clinical Implant Dentistry and Related Research*, **2003**, 5, 241-53	3.9	42
150	The role of implant surface modifications, shape and material on the success of osseointegrated dental implants. A Cochrane systematic review. *European journal of prosthodontics and restorative dentistry, The*, **2005**, 13, 15-31	0.9	42
149	Failure patterns of four osseointegrated oral implant systems. *Journal of Materials Science: Materials in Medicine*, **1997**, 8, 843-7	4.5	41
148	In vivo gene expression in response to anodically oxidized versus machined titanium implants. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1552-66	5.4	39
147	High-Resolution Visualization of the Osteocyte Lacuno-Canalicular Network Juxtaposed to the Surface of Nanotextured Titanium Implants in Human. *ACS Biomaterials Science and Engineering*, **2015**, 1, 305-313	5.5	38
146	Osseointegration of titanium with an antimicrobial nanostructured noble metal coating. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2013**, 9, 1048-56	6	38
145	Osteogenic potential of human mesenchymal stem cells and human embryonic stem cell-derived mesodermal progenitors: a tissue engineering perspective. *Tissue Engineering - Part A*, **2010**, 16, 3413-26	3.9	38
144	Morphological studies on machined implants of commercially pure titanium and titanium alloy (Ti6Al4V) in the rabbit. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 309-19	3.5	37
143	Forearm bone-anchored amputation prosthesis: a case study on the osseointegration. *Monthly Notices of the Royal Astronomical Society: Letters*, **2008**, 79, 78-85	4.3	37
142	Bone response inside free-form fabricated macroporous hydroxyapatite scaffolds with and without an open microporosity. *Clinical Implant Dentistry and Related Research*, **2007**, 9, 79-88	3.9	37
141	Osteogenic response of human mesenchymal stem cells to well-defined nanoscale topography in vitro. *International Journal of Nanomedicine*, **2014**, 9, 2499-515	7.3	36
140	Bone tissue reactions to biomimetic ion-substituted apatite surfaces on titanium implants. *Journal of the Royal Society Interface*, **2012**, 9, 1615-24	4.1	36
139	Free form fabricated features on CoCr implants with and without hydroxyapatite coating in vivo: a comparative study of bone contact and bone growth induction. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 899-906	4.5	36
138	A Review of the Impact of Implant Biomaterials on Osteocytes. *Journal of Dental Research*, **2018**, 97, 977-986	8.1	35
137	Electron microscopic observations on the soft tissue around clinical long-term percutaneous titanium implants. *Biomaterials*, **1995**, 16, 83-90	15.6	35
136	Free-form-fabricated commercially pure Ti and Ti6Al4V porous scaffolds support the growth of human embryonic stem cell-derived mesodermal progenitors. *Scientific World Journal, The*, **2012**, 2012, 646417	2.2	34

135	Exosomes influence the behavior of human mesenchymal stem cells on titanium surfaces. *Biomaterials*, **2020**, 230, 119571	15.6	34
134	Micrometer-Sized Magnesium Whitlockite Crystals in Micropetrosis of Bisphosphonate-Exposed Human Alveolar Bone. *Nano Letters*, **2017**, 17, 6210-6216	11.5	32
133	Commercially pure titanium and Ti6AI4V implants with and without nitrogen-ion implantation: surface characterization and quantitative studies in rabbit cortical bone. *Journal of Materials Science: Materials in Medicine*, **1993**, 4, 132-141	4.5	32
132	Experience with percutaneous titanium implants in the head and neck: a clinical and histological study. *Journal of Investigative Surgery*, **1989**, 2, 7-16	1.2	32
131	The role of well-defined nanotopography of titanium implants on osseointegration: cellular and molecular events in vivo. *International Journal of Nanomedicine*, **2016**, 11, 1367-82	7.3	32
130	Oxidized Titanium Implants Enhance Osseointegration via Mechanisms Involving RANK/RANKL/OPG Regulation. *Clinical Implant Dentistry and Related Research*, **2015**, 17 Suppl 2, e486-500	3.9	31
129	Bone-titanium oxide interface in humans revealed by transmission electron microscopy and electron tomography. *Journal of the Royal Society Interface*, **2012**, 9, 396-400	4.1	31
128	Immunohistochemical study of the soft tissue around long-term skin-penetrating titanium implants. *Biomaterials*, **1995**, 16, 611-6	15.6	31
127	Biomechanical, histological, and ultrastructural analyses of laser micro- and nano-structured titanium alloy implants: a study in rabbit. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1476-86	5.4	30
126	Resorbable and nonresorbable hydroxyapatite granules as bone graft substitutes in rabbit cortical defects. *Clinical Implant Dentistry and Related Research*, **2003**, 5, 95-101	3.9	30
125	Implant survival and marginal bone loss at turned and oxidized implants in periodontitis-susceptible smokers and never-smokers: a retrospective, clinical, radiographic case-control study. *Journal of Periodontology*, **2013**, 84, 1775-82	4.6	29
124	Role of nanostructured gold surfaces on monocyte activation and Staphylococcus epidermidis biofilm formation. *International Journal of Nanomedicine*, **2014**, 9, 775-94	7.3	29
123	Monocyte viability on titanium and copper coated titanium. *Biomaterials*, **2005**, 26, 5942-50	15.6	29
122	In vitro study of monocyte viability during the initial adhesion to albumin- and fibrinogen-coated surfaces. *Biomaterials*, **2001**, 22, 827-32	15.6	29
121	A Novel Class of Injectable Bioceramics that Glue Tissues and Biomaterials. *Materials*, **2018**, 11,	3.5	29
120	The clinical, radiological, microbiological, and molecular profile of the skin-penetration site of transfemoral amputees treated with bone-anchored prostheses. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 578-589	5.4	27
119	Bioceramic Implant Induces Bone Healing of Cranial Defects. *Plastic and Reconstructive Surgery - Global Open*, **2015**, 3, e491	1.2	27
118	Visualizing biointerfaces in three dimensions: electron tomography of the bone-hydroxyapatite interface. *Journal of the Royal Society Interface*, **2010**, 7, 1497-501	4.1	27

117	Method for immunolocalization of extracellular proteins in association with the implant-soft tissue interface. *Biomaterials*, **1994**, 15, 17-24	15.6	27
116	Inflammatory cells and mediators in the silicone chamber model for nerve regeneration. *Biomaterials*, **1993**, 14, 1180-5	15.6	27
115	Osseointegration of fiber-reinforced composite implants: histological and ultrastructural observations. *Dental Materials*, **2014**, 30, e384-95	5.7	26
114	Biofilm formation and antimicrobial susceptibility of staphylococci and enterococci from osteomyelitis associated with percutaneous orthopaedic implants. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 2630-2640	3.5	25
113	Bone response to free form-fabricated hydroxyapatite and zirconia scaffolds: a histological study in the human maxilla. *Clinical Oral Implants Research*, **2009**, 20, 379-85	4.8	25
112	Effects of irradiation on the biomechanics of osseointegration. An experimental in vivo study in rats. *Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery*, **1997**, 31, 281-93		25
111	Inflammatory cell recruitment, distribution, and chemiluminescence response at IgG precoated- and thiol functionalized gold surfaces. *Journal of Biomedical Materials Research Part B*, **1999**, 47, 251-9		25
110	Enamel matrix derivative for periodontal tissue regeneration in treatment of intrabony defects: a Cochrane systematic review. *Journal of Dental Education*, **2004**, 68, 834-44	1.6	25
109	Human embryonic stem cell-derived mesodermal progenitors display substantially increased tissue formation compared to human mesenchymal stem cells under dynamic culture conditions in a packed bed/column bioreactor. *Tissue Engineering - Part A*, **2013**, 19, 175-87	3.9	24
108	Bacteria-material surface interactions: methodological development for the assessment of implant surface induced antibacterial effects. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 179-87	3.5	23
107	The effects of a systemic single dose of zoledronic acid on post-implantation bone remodelling and inflammation in an ovariectomised rat model. *Biomaterials*, **2013**, 34, 1546-61	15.6	23
106	Long-term bone response to titanium implants coated with thin radiofrequent magnetron-sputtered hydroxyapatite in rabbits. *International Journal of Oral and Maxillofacial Implants*, **2004**, 19, 498-509	2.8	23
105	The Orientation of Nanoscale Apatite Platelets in Relation to Osteoblastic-Osteocyte Lacunae on Trabecular Bone Surface. *Calcified Tissue International*, **2016**, 98, 193-205	3.9	22
104	Molecular and structural patterns of bone regeneration in surgically created defects containing bone substitutes. *Biomaterials*, **2014**, 35, 3229-42	15.6	22
103	Nanoporous TiO(2) thin film on titanium oral implants for enhanced human soft tissue adhesion: a light and electron microscopy study. *Clinical Implant Dentistry and Related Research*, **2011**, 13, 184-96	3.9	22
102	Monocyte activation on titanium-sputtered polystyrene surfaces in vitro: the effect of culture conditions on interleukin-1 release. *Biomaterials*, **1996**, 17, 851-8	15.6	22
101	Hollow implants in soft tissues allowing quantitative studies of cells and fluid at the implant interface. *Biomaterials*, **1988**, 9, 86-90	15.6	22
100	Effect of load on the bone around bone-anchored amputation prostheses. *Journal of Orthopaedic Research*, **2017**, 35, 1113-1122	3.8	21

99	Tissue response to hafnium. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 603-11	4.5	21
98	Bone response to surface-modified titanium implants: studies on the early tissue response to implants with different surface characteristics. *International Journal of Biomaterials*, **2013**, 2013, 412482	3.2	20
97	A 15-year follow-up of transfemoral amputees with bone-anchored transcutaneous prostheses. *Bone and Joint Journal*, **2020**, 102-B, 55-63	5.6	19
96	Direct communication between osteocytes and acid-etched titanium implants with a sub-micron topography. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 167	4.5	19
95	Distribution of cells in soft tissue and fluid space around hollow and solid implants in the rat. *Journal of Materials Science: Materials in Medicine*, **1994**, 5, 269-278	4.5	19
94	Leukotriene B4, interleukin 1 and leucocyte accumulation in titanium and PTFE chambers after implantation in the rat abdominal wall. *Biomaterials*, **1991**, 12, 827-30	15.6	19
93	A novel soft tissue model for biomaterial-associated infection and inflammation - bacteriological, morphological and molecular observations. *Biomaterials*, **2015**, 41, 106-21	15.6	18
92	Bone response to free-form fabricated hydroxyapatite and zirconia scaffolds: a transmission electron microscopy study in the human maxilla. *Clinical Implant Dentistry and Related Research*, **2012**, 14, 461-9	3.9	18
91	Evaluation of a near-senescent human dermal fibroblast cell line and effect of amelogenin. *British Journal of Dermatology*, **2009**, 160, 1163-71	4	18
90	In vivo evaluation of noble metal coatings. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 92, 86-94	3.5	18
89	In vivo/ex vivo cellular interactions with titanium and copper. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 939-44	4.5	18
88	Gene expression in peri-implant crevicular fluid of smokers and nonsmokers. 1. The early phase of osseointegration. *Clinical Implant Dentistry and Related Research*, **2017**, 19, 681-693	3.9	17
87	Acute inflammatory response to laser-induced micro- and nano-sized titanium surface features. *Clinical Implant Dentistry and Related Research*, **2013**, 15, 96-104	3.9	17
86	Ultrastructural evaluation of shrinkage artefacts induced by fixatives and embedding resins on osteocyte processes and pericellular space dimensions. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 1565-76	5.4	17
85	The influence of bone type on the gene expression in normal bone and at the bone-implant interface: experiments in animal model. *Clinical Implant Dentistry and Related Research*, **2011**, 13, 146-56	3.9	17
84	Tissue response to titanium implants in experimental antigen-induced arthritis. *Biomaterials*, **1993**, 14, 413-22	15.6	17
83	Joint fluid leukocyte activation by preformed immune complexes. *Inflammation*, **1986**, 10, 243-56	5.1	17
82	Inflammatory cell response to ultra-thin amorphous and crystalline hydroxyapatite surfaces. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 9	4.5	16

81	Bone and soft tissue outcomes, risk factors, and complications of implant-supported prostheses: 5-Years RCT with different abutment types and loading protocols. *Clinical Implant Dentistry and Related Research*, **2018**, 20, 313-321	3.9	16
80	Bone ingrowth in zirconia and hydroxyapatite scaffolds with identical macroporosity. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 2983-92	4.5	16
79	Analysis of rat plasma proteins desorbed from gold and methyl- and hydroxyl-terminated alkane thiols on gold surfaces. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 191-9	4.5	16
78	Soft tissue infection around a skin penetrating osseointegrated implant. A case report. *Scandinavian Journal of Plastic and Reconstructive Surgery*, **1987**, 21, 225-8		16
77	Gene expression of inflammation and bone healing in peri-implant crevicular fluid after placement and loading of dental implants. A kinetic clinical pilot study using quantitative real-time PCR. *Clinical Implant Dentistry and Related Research*, **2012**, 14, 723-36	3.9	15
76	Clinical, radiological, and gene expression analyses in smokers and non-smokers, Part 2: RCT on the late healing phase of osseointegration. *Clinical Implant Dentistry and Related Research*, **2017**, 19, 901-915	3.9	15
75	Highly packed and aligned fluoride substituted hydroxyapatite via a surfactant-free process. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 75-81	3.5	14
74	Biomechanical and morphological studies on osseointegration in immunological arthritis in rabbits. *Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery*, **1997**, 31, 185-95		14
73	Maintaining and re-establishing health around osseointegrated oral implants: a Cochrane systematic review comparing the efficacy of various treatments. *Periodontology 2000*, **2003**, 33, 204-12	12.9	14
72	Cast titanium as implant material. *Journal of Materials Science: Materials in Medicine*, **1995**, 6, 435-444	4.5	14
71	In situ bone regeneration of large cranial defects using synthetic ceramic implants with a tailored composition and design. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26660-26671	11.5	14
70	Mesenchymal stem cell-derived small extracellular vesicles and bone regeneration. *Basic and Clinical Pharmacology and Toxicology*, **2021**, 128, 18-36	3.1	14
69	Amelogenin is phagocytized and induces changes in integrin configuration, gene expression and proliferation of cultured normal human dermal fibroblasts. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 947-54	4.5	13
68	Hydroxyapatite granule/carrier composites promote new bone formation in cortical defects. *Clinical Implant Dentistry and Related Research*, **2000**, 2, 50-9	3.9	13
67	Fluorapatite-coated implants in experimental arthritis: the response of rabbit trabecular bone. *Journal of Materials Science: Materials in Medicine*, **1994**, 5, 59-66	4.5	13
66	Commercially Available Dental Implants: Review of Their Surface Characteristics. *Journal of Biomaterials and Tissue Engineering*, **2012**, 2, 112-124	0.3	13
65	Early inflammatory response in soft tissues induced by thin calcium phosphates. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 2712-7	5.4	12
64	Co-culture of human monocytes and thyrocytes in bicameral chamber: monocyte-derived IL-1alpha impairs the thyroid epithelial barrier. *Cytokine*, **2000**, 12, 32-40	4	12

63	Stimulation of nerve regeneration by macrophages in granulation tissue. *Restorative Neurology and Neuroscience*, **1996**, 9, 141-9	2.8	12
62	Antimicrobial Peptide-Functionalized Mesoporous Hydrogels. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1693-1702	5.5	12
61	The effects of PPAR-□nhibition on gene expression and the progression of induced osteogenic differentiation of human mesenchymal stem cells. *Connective Tissue Research*, **2014**, 55, 262-74	3.3	11
60	Retrieved bone-anchored percutaneous amputation prosthesis showing maintained osseointegration after 11 years-a case report. *Monthly Notices of the Royal Astronomical Society: Letters*, **2014**, 85, 442-5	4.3	11
59	Immediately loaded implants with or without abutments supporting fixed partial dentures: 1-year results from a prospective, randomized, clinical trial. *Clinical Implant Dentistry and Related Research*, **2014**, 16, 487-500	3.9	11
58	Apoptosis and cytokine release in human monocytes cultured on polystyrene and fibrinogen-coated polystyrene surfaces. *Biomaterials*, **2002**, 23, 1639-48	15.6	11
57	The Titanium-Bone Interface In Vivo. *Engineering Materials*, **2001**, 587-648	0.4	11
56	Gene expression profiling of peri-implant healing of PLGA-Li+ implants suggests an activated Wnt signaling pathway in vivo. *PLoS ONE*, **2014**, 9, e102597	3.7	11
55	Bone Response and Soft Tissue Changes Around Implants With/Without Abutments Supporting Fixed Partial Dentures: Results From a 3-Year, Prospective, Randomized, Controlled Study. *Clinical Implant Dentistry and Related Research*, **2016**, 18, 309-22	3.9	10
54	Locally enhanced early bone formation of zoledronic acid incorporated into a bone cement plug in vivo. *Journal of Pharmacy and Pharmacology*, **2013**, 65, 201-12	4.8	10
53	Biocompatibility and resorption of a radiopaque premixed calcium phosphate cement. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 1269-78	5.4	10
52	A novel method for producing electron transparent films of interfaces between cells and biomaterials. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 467-70	4.5	10
51	Secretion of IL-1 and H2O2 by human mononuclear cells in vitro. *Biomaterials*, **2000**, 21, 1047-55	15.6	10
50	Ex vivo analysis of leukocyte hydrogen peroxide production using a bi-plate model in mice. *Journal of Cellular Physiology*, **1996**, 166, 138-43	7	10
49	The clinical outcome and microbiological profile of bone-anchored hearing systems (BAHS) with different abutment topographies: a prospective pilot study. *European Archives of Oto-Rhino-Laryngology*, **2018**, 275, 1395-1408	3.5	9
48	Extracellular matrix composition during bone regeneration in the human dental alveolar socket. *Bone*, **2019**, 127, 244-249	4.7	8
47	Healing of titanium implants in onlay bone grafts: an experimental rabbit model. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 83-9	4.5	8
46	Influence of indomethacin on the regeneration of cortical bone within titanium implants in rabbits. *Biomaterials*, **1993**, 14, 156-8	15.6	8

45	Proliferative synovitis in rabbit knee joints induced by antigen and preformed immune complexes. *Scandinavian Journal of Rheumatology*, **1985**, 14, 239-51	1.9	8
44	Jaw Bone Samples From Bisphosphonate-Treated Patients: A Pilot Cohort Study. *Clinical Implant Dentistry and Related Research*, **2015**, 17 Suppl 2, e679-91	3.9	7
43	Bone response to physical-vapour-deposited titanium dioxide coatings on titanium implants. *Clinical Oral Implants Research*, **2013**, 24, 1009-17	4.8	7
42	Amelogenins modulate cytokine expression in LPS-challenged cultured human macrophages. *Cytokine*, **2012**, 58, 274-9	4	7
41	Soft-tissue-anchored transcutaneous port for long-term percutaneous transhepatic biliary drainage. *CardioVascular and Interventional Radiology*, **2005**, 28, 53-9	2.7	7
40	Ellipsometric studies in vitro on kinetics of rat complement activation. *Journal of Biomedical Materials Research Part B*, **1999**, 44, 222-5		7
39	Persistent irritation of the soft tissue around an osseointegrated titanium implant. Case report. *Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery*, **1994**, 28, 225-30		7
38	Inhibitory effect of honey bee venom on immune complex mediated leukocyte migration into rabbit knee-joints. *Agents and Actions*, **1984**, 14, 662-6		7
37	Implant-associated gene expression in the jaw bone of smokers and nonsmokers: A human study using quantitative qPCR. *Clinical Oral Implants Research*, **2018**, 29, 937-953	4.8	7
36	Staphylococcal biofilm gene expression on biomaterials - A methodological study. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 3400-3412	5.4	6
35	In vitro and in vivo evaluation of an injectable premixed calcium phosphate cement; cell viability and immunological response from rat. *International Journal of Nano and Biomaterials*, **2011**, 3, 203	0.2	6
34	Resolving the CaP-bone interface: a review of discoveries with light and electron microscopy. *Biomatter*, **2012**, 2, 15-23		6
33	Studies of the healing of bone grafts, and the incorporation of titanium implants in grafted bone: an experimental animal model. *Journal of Materials Science: Materials in Medicine*, **1998**, 9, 535-41	4.5	6
32	Ex vivo PMA-induced respiratory burst and TNF-alpha secretion elicited from inflammatory cells on machined and porous blood plasma clot-coated titanium. *Biomaterials*, **2002**, 23, 2803-15	15.6	6
31	Interactions between monocytes, mesenchymal stem cells, and implants evaluated using flow cytometry and gene expression. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1728-1741	4.4	6
30	H2O2 production by cells on titanium and polystyrene surfaces using an in vivo model of exudate and surface related cell function. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 735-43	4.5	5
29	On the formation of fibrous capsule and fluid space around machined and porous blood plasma clot coated titanium. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 1019-24	4.5	5
28	Leucocyte accumulation and leukotriene B4 release in response to polyglactin 910 and expanded polytetrafluoroethylene in hollow chambers in the rat. *Biomaterials*, **1995**, 16, 107-11	15.6	5

27	Activation and migration of leukocytes and vascular leakage induced by serum-opsonized zymosan particles in hamster cheek pouch. *Inflammation*, **1989**, 13, 91-102	5.1	5
26	Acute synovitis induced by preformed immune complexes. *Scandinavian Journal of Rheumatology*, **1986**, 15, 134-42	1.9	5
25	Titanium implants in rabbit knee joints. *Acta Orthopaedica*, **1987**, 58, 265-9		5
24	Titanium in Soft Tissues. *Engineering Materials*, **2001**, 513-560	0.4	5
23	Site-specific gene expression analysis of implant-near cells in a soft tissue infection model - Application of laser microdissection to study biomaterial-associated infection. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 2210-2217	5.4	4
22	Virtual ligand-based screening reveals purmorphamine analogs with the capacity to induce the osteogenic differentiation of human mesenchymal stem cells. *Cells Tissues Organs*, **2013**, 197, 89-102	2.1	4
21	Amelogenins promote an alternatively activated macrophage phenotype in vitro. *International Journal of Nano and Biomaterials*, **2011**, 3, 282	0.2	3
20	E-PTFE in rabbit knee-joints. *Journal of Materials Science: Materials in Medicine*, **1994**, 5, 473-480	4.5	3
19	Electropolished Titanium Implants with a Mirror-Like Surface Support Osseointegration and Bone Remodelling. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-10	1.5	3
18	Biofilm properties in relation to treatment outcome in patients with first-time periprosthetic hip or knee joint infection. *Journal of Orthopaedic Translation*, **2021**, 30, 31-40	4.2	3
17	Integration between a percutaneous implant and the porcine small bowel. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2011**, 98, 101-9	3.5	2
16	Implant exudate leucocyte response to anti-inflammatory drug treatment. *Journal of Materials Science: Materials in Medicine*, **1993**, 4, 186-191	4.5	2
15	Human progenitor cells for bone engineering applications. *Current Molecular Medicine*, **2013**, 13, 723-34	2.5	2
14	The effects of controlled nanotopography, machined topography and their combination on molecular activities, bone formation and biomechanical stability during osseointegration. *Acta Biomaterialia*, **2021**, 136, 279-290	10.8	2
13	Extracellular Vesicles Influence the Growth and Adhesion of Under Antimicrobial Selective Pressure. *Frontiers in Microbiology*, **2020**, 11, 1132	5.7	2
12	Does Smoking Impair Bone Regeneration in the Dental Alveolar Socket?. *Calcified Tissue International*, **2019**, 105, 619-629	3.9	1
11	Three-dimensional modeling of removal torque and fracture progression around implants. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 104	4.5	1
10	Ultrastructural characterisation of the hydroxyapatite-coated pedicle screw and human bone interface. *International Journal of Nano and Biomaterials*, **2012**, 4, 1	0.2	1

9	Sodium Salicylate Influences the Biofilm Structure and Susceptibility Towards Silver. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
8	Immunomodulatory effects exerted by extracellular vesicles from Staphylococcus epidermidis and Staphylococcus aureus isolated from bone-anchored prostheses. *Biomaterials*, **2021**, 278, 121158	15.6	1
7	Monocytes and pyrophosphate promote mesenchymal stem cell viability and early osteogenic differentiation.. *Journal of Materials Science: Materials in Medicine*, **2022**, 33, 11	4.5	0
6	Bone without borders - Monetite-based calcium phosphate guides bone formation beyond the skeletal envelope.. *Bioactive Materials*, **2023**, 19, 103-114	16.7	0
5	Corrigendum to Electropolished Titanium Implants with a Mirror-Like Surface Support Osseointegration and Bone Remodelling *Advances in Materials Science and Engineering*, **2017**, 2017, 1-2	1.5	
4	Achieving stomal continence with an ileal pouch and a percutaneous implant.. *Journal of Materials Science: Materials in Medicine*, **2022**, 33, 7	4.5	
3	Biomaterials for Cranio-Maxillofacial Bone Engineering **2019**, 7-25		
2	Multimodal Analysis of the Tissue Response to a Bone-Anchored Hearing Implant: Presentation of a Two-Year Case Report of a Patient With Recurrent Pain, Inflammation, and Infection, Including a Systematic Literature Review. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 640899	5.9	
1	Cellular and molecular reactions to dental implants **2020**, 183-205		