# Pierre Layrolle

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 200 papers | 14,923 citations | 20036 63 h-index | 23841 115 g-index |
| 211 all docs | 211 docs citations | 211 times ranked | 16295 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microbialâ€“stem cell interactions in periodontal disease. Journal of Medical Microbiology, 2022, 71, . | 0.7 | 1 |
| 2 | Osteonecrosis of the Femoral Head Safely Healed with Autologous, Expanded, Bone Marrow-Derived Mesenchymal Stromal Cells in a Multicentric Trial with Minimum 5 Years Follow-Up. Journal of Clinical Medicine, 2021, 10, 508. | 1.0 | 19 |
| 3 | Chondrogenic and BMP-4 primings confer osteogenesis potential to human cord blood mesenchymal stromal cells delivered with biphasic calcium phosphate ceramics. Scientific Reports, 2021, 11, 6751. | 1.6 | 4 |
| 4 | Apoptotic mesenchymal stromal cells support osteoclastogenesis while inhibiting multinucleated giant cells formation in vitro. Scientific Reports, 2021, 11, 12144. | 1.6 | 6 |
| 5 | PPAR Gamma and Viral Infections of the Brain. International Journal of Molecular Sciences, 2021, 22, 8876. | 1.8 | 15 |
| 6 | Evaluation of the Chemotherapy Drug Response Using Organotypic Cultures of Osteosarcoma Tumours from Mice Models and Canine Patients. Cancers, 2021, 13, 4890. | 1.7 | 5 |
| 7 | Biomimetic versus sintered macroporous calcium phosphate scaffolds enhanced bone regeneration and human mesenchymal stromal cell engraftment in calvarial defects. Acta Biomaterialia, 2021, 135, 689-704. | 4.1 | 13 |
| 8 | Bone regenerative issues related to bone grafting biomaterials. , 2020, , 207-215. | | 2 |
| 9 | In situ production of pre-vascularized synthetic bone grafts for regenerating critical-sized defects in rabbits. Acta Biomaterialia, 2020, 114, 384-394. | 4.1 | 30 |
| 10 | Osteoblasts mineralization and collagen matrix are conserved upon specific Col1a2 silencing. Matrix Biology Plus, 2020, 6-7, 100028. | 1.9 | 6 |
| 11 | Biomaterials Functionalized with MSC Secreted Extracellular Vesicles and Soluble Factors for Tissue Regeneration. Advanced Functional Materials, 2020, 30, 1909125. | 7.8 | 204 |
| 12 | Biocompatibility and osseointegration of nanostructured titanium dental implants in minipigs. Clinical Oral Implants Research, 2020, 31, 526-535. | 1.9 | 19 |
| 13 | Early efficacy evaluation of mesenchymal stromal cells (MSC) combined to biomaterials to treat long bone non-unions. Injury, 2020, 51, S63-S73. | 0.7 | 32 |
| 14 | Reconstruction of Large Skeletal Defects: Current Clinical Therapeutic Strategies and Future Directions Using 3D Printing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 61. | 2.0 | 109 |
| 15 | Cold Plasma-Treated Ringerâ€™s Saline: A Weapon to Target Osteosarcoma. Cancers, 2020, 12, 227. | 1.7 | 57 |
| 16 | Regeneration of segmental defects in metatarsus of sheep with vascularized and customized 3D-printed calcium phosphate scaffolds. Scientific Reports, 2020, 10, 7068. | 1.6 | 51 |
| 17 | A Developmental Engineering-Based Approach to Bone Repair: Endochondral Priming Enhances Vascularization and New Bone Formation in a Critical Size Defect. Frontiers in Bioengineering and Biotechnology, 2020, 8, 230. | 2.0 | 22 |
| 18 | Biomarkers of bone healing induced by a regenerative approach based on expanded bone marrowâ€“derived mesenchymal stromal cells. Cytotherapy, 2019, 21, 870-885. | 0.3 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Impact of humanised isolation and culture conditions on stemness and osteogenic potential of bone marrow derived mesenchymal stromal cells. Scientific Reports, 2019, 9, 16031. | 1.6 | 12 |
| 20 | Rotator Cuff Tenocytes Differentiate into Hypertrophic Chondrocyte-Like Cells to Produce Calcium Deposits in an Alkaline Phosphatase-Dependent Manner. Journal of Clinical Medicine, 2019, 8, 1544. | 1.0 | 9 |
| 21 | Biomaterials and regenerative technologies used in bone regeneration in the craniomaxillofacial region: Consensus report of group 2 of the 15th European Workshop on Periodontology on Bone Regeneration. Journal of Clinical Periodontology, 2019, 46, 82-91. | 2.3 | 132 |
| 22 | Translation of a standardized manufacturing protocol for mesenchymal stromal cells: A systematic comparison of validation and manufacturing data. Cytotherapy, 2019, 21, 468-482. | 0.3 | 33 |
| 23 | Impact of nanotechnology on dental implants. , 2019, , 385-399. | | 0 |
| 24 | Nanostructured surface coatings for titanium alloy implants. Journal of Materials Research, 2019, 34, 1892-1899. | 1.2 | 26 |
| 25 | Low-Dose Pesticide Mixture Induces Accelerated Mesenchymal Stem Cell Aging In Vitro. Stem Cells, 2019, 37, 1083-1094. | 1.4 | 16 |
| 26 | Immune Modulation by Transplanted Calcium Phosphate Biomaterials and Human Mesenchymal Stromal Cells in Bone Regeneration. Frontiers in Immunology, 2019, 10, 663. | 2.2 | 83 |
| 27 | Epinephrine Infiltration of Adipose Tissue Impacts MCF7 Breast Cancer Cells and Total Lipid Content. International Journal of Molecular Sciences, 2019, 20, 5626. | 1.8 | 7 |
| 28 | Vertical Bone Regeneration with Synthetic Biomimetic Calcium Phosphate onto the Calvaria of Rats. Tissue Engineering - Part C: Methods, 2019, 25, 1-11. | 1.1 | 7 |
| 29 | Feasibility and safety of treating non-unions in tibia, femur and humerus with autologous, expanded, bone marrow-derived mesenchymal stromal cells associated with biphasic calcium phosphate biomaterials in a multicentric, non-comparative trial. Biomaterials, 2019, 196, 100-108. | 5.7 | 87 |
| 30 | Clinical Safety of a New Synthetic Resorbable Dental Membrane: A Case Series Study. Journal of Oral Implantology, 2018, 44, 138-145. | 0.4 | 7 |
| 31 | Impact of nanotechnology on dental implants. , 2018, , 83-97. | | 2 |
| 32 | Comparison of Tumor- and Bone Marrow-Derived Mesenchymal Stromal/Stem Cells from Patients with High-Grade Osteosarcoma. International Journal of Molecular Sciences, 2018, 19, 707. | 1.8 | 19 |
| 33 | Cell therapy induced regeneration of severely atrophied mandibular bone in a clinical trial. Stem Cell Research and Therapy, 2018, 9, 213. | 2.4 | 132 |
| 34 | Early Fracture Healing is Delayed in the Col1a2+/G610C Osteogenesis Imperfecta Murine Model. Calcified Tissue International, 2018, 103, 653-662. | 1.5 | 9 |
| 35 | Enhanced human bone marrow mesenchymal stromal cell adhesion on scaffolds promotes cell survival and bone formation. Acta Biomaterialia, 2017, 59, 94-107. | 4.1 | 68 |
| 36 | IL-38 overexpression induces anti-inflammatory effects in mice arthritis models and in human macrophages in vitro. Annals of the Rheumatic Diseases, 2017, 76, 1304-1312. | 0.5 | 101 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Fresh and in vitro osteodifferentiated human amniotic membrane, alone or associated with an additional scaffold, does not induce ectopic bone formation in Balb/c mice. Cell and Tissue Banking, 2017, 18, 17-25. | 0.5 | 12 |
| 38 | OP0093â€…Il-38 overexpression induces anti-inflammatory effects in mice arthritis models and in human macrophages in vitro. , 2017, , . | | 1 |
| 39 | Inferior In Vivo Osteogenesis and Superior Angiogeneis of Human Adipose-Derived Stem Cells Compared with Bone Marrow-Derived Stem Cells Cultured in Xeno-Free Conditions. Stem Cells Translational Medicine, 2017, 6, 2160-2172. | 1.6 | 67 |
| 40 | 02.12â€…Il-38 overexpression induces anti-inflammatory effects in mice arthritis models and in human macrophages in vitro. , 2017, , . | | 0 |
| 41 | <sup />Mimicking the Biochemical and Mechanical Extracellular Environment of the Endochondral Ossification Process to Enhance the In Vitro Mineralization Potential of Human Mesenchymal Stem Cells. Tissue Engineering - Part A, 2017, 23, 1466-1478. | 1.6 | 16 |
| 42 | OP0190â€…Histological characterization of rotator cuff calcific tendinopathy. , 2017, , . | | 0 |
| 43 | Impact of biomaterial microtopography on bone regeneration: comparison of three hydroxyapatites. Clinical Oral Implants Research, 2017, 28, e201-e207. | 1.9 | 27 |
| 44 | Changes of Bone Turnover Markers in Long Bone Nonunions Treated with a Regenerative Approach. Stem Cells International, 2017, 2017, 1-11. | 1.2 | 11 |
| 45 | Biocompatibility, resorption and biofunctionality of a new synthetic biodegradable membrane for guided bone regeneration. Biomedical Materials (Bristol), 2016, 11, 045012. | 1.7 | 64 |
| 46 | Bone regeneration strategies with bone marrow stromal cells in orthopaedic surgery. Current Research in Translational Medicine, 2016, 64, 83-90. | 1.2 | 68 |
| 47 | Mesenchymal stem cells increase proliferation but do not change quiescent state of osteosarcoma cells: Potential implications according to the tumor resection status. Journal of Bone Oncology, 2016, 5, 5-14. | 1.0 | 27 |
| 48 | Controlled implant/soft tissue interaction by nanoscale surface modifications of 3D porous titanium implants. Nanoscale, 2015, 7, 9908-9918. | 2.8 | 39 |
| 49 | Development of a simple procedure for the treatment of femoral head osteonecrosis with intra-osseous injection of bone marrow mesenchymal stromal cells: study of their biodistribution in the early time points after injection. Stem Cell Research and Therapy, 2015, 6, 68. | 2.4 | 43 |
| 50 | Oncostatin M, an Inflammatory Cytokine Produced by Macrophages, Supports Intramembranous Bone Healing in a Mouse Model of Tibia Injury. American Journal of Pathology, 2015, 185, 765-775. | 1.9 | 116 |
| 51 | Inhibition of osteolysis and increase of bone formation after local administration of siRNA-targeting RANK in a polyethylene particle-induced osteolysis model. Acta Biomaterialia, 2015, 13, 150-158. | 4.1 | 36 |
| 52 | 3D cell culture and osteogenic differentiation of human bone marrow stromal cells plated onto jet-sprayed or electrospun micro-fiber scaffolds. Biomedical Materials (Bristol), 2015, 10, 045019. | 1.7 | 46 |
| 53 | Bone Apposition on Nanoporous Titanium Implants. , 2015, , 427-444. | | 2 |
| 54 | Comparative bone tissue integration of nanostructured and microroughened dental implants. Nanomedicine, 2015, 10, 741-751. | 1.7 | 20 |

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|---|---|---|---|
| 55 | Effect of Leukocyteâ€•and Plateletâ€Rich Fibrin (<scp>L</scp>â€<scp>PRF</scp>) on Bone Regeneration: A Study in Rabbits. Clinical Implant Dentistry and Related Research, 2015, 17, e143-52. | 1.6 | 32 |
| 56 | Enhanced osseointegration of titanium implants with nanostructured surfaces: An experimental study in rabbits. Acta Biomaterialia, 2015, 11, 494-502. | 4.1 | 213 |
| 57 | Allele-specific Col1a1 silencing reduces mutant collagen in fibroblasts from Brtl mouse, a model for classical osteogenesis imperfecta. European Journal of Human Genetics, 2014, 22, 667-674. | 1.4 | 21 |
| 58 | Orthopaedic implant failure: aseptic implant looseningâ€“the contribution and future challenges of mouse models in translational research. Clinical Science, 2014, 127, 277-293. | 1.8 | 48 |
| 59 | Cell morphology and focal adhesion location alters internal cell stress. Journal of the Royal Society Interface, 2014, 11, 20140885. | 1.5 | 39 |
| 60 | Osteoblastic differentiation and potent osteogenicity of three-dimensional hBMSC-BCP particle constructs. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 364-376. | 1.3 | 17 |
| 61 | Transportation Conditions for Prompt Use ofEx VivoExpanded and Freshly Harvested Clinical-Grade Bone Marrow Mesenchymal Stromal/Stem Cells for Bone Regeneration. Tissue Engineering - Part C: Methods, 2014, 20, 239-251. | 1.1 | 39 |
| 62 | Correlating ex vivo and in vivo osteogenic assays for quality control of clinically destined CGMP grade BM-MSC. Cytotherapy, 2014, 16, S96-S97. | 0.3 | 0 |
| 63 | Cell therapy for bone repair. Orthopaedics and Traumatology: Surgery and Research, 2014, 100, S107-S112. | 0.9 | 112 |
| 64 | Correlation between primary stability and bone healing of surface treated titanium implants in the femoral epiphyses of rabbits. Journal of Materials Science: Materials in Medicine, 2014, 25, 1941-1951. | 1.7 | 4 |
| 65 | Osteoblastic and osteoclastic differentiation of human mesenchymal stem cells and monocytes in a miniaturized three-dimensional culture with mineral granules. Acta Biomaterialia, 2014, 10, 5139-5147. | 4.1 | 18 |
| 66 | Bone tissue formation with human mesenchymal stem cells and biphasic calcium phosphate ceramics: The local implication of osteoclasts and macrophages. Biomaterials, 2014, 35, 9660-9667. | 5.7 | 133 |
| 67 | Liposomal clodronate inhibition of osteoclastogenesis and osteoinduction by submicrostructured beta-tricalcium phosphate. Biomaterials, 2014, 35, 5088-5097. | 5.7 | 110 |
| 68 | Effects of a novel ceramic biomaterial on immune modulatory properties and differentiation potential of mesenchymal stromal cells. Cytotherapy, 2014, 16, S90-S91. | 0.3 | 0 |
| 69 | Pre-clinical studies of bone regeneration with human bone marrow stromal cells and biphasic calcium phosphate. Stem Cell Research and Therapy, 2014, 5, 114. | 2.4 | 100 |
| 70 | Bone Regeneration Using Porous Titanium Particles versus Bovine Hydroxyapatite: A Sinus Lift Study in Rabbits. Clinical Implant Dentistry and Related Research, 2013, 15, 412-426. | 1.6 | 18 |
| 71 | Pre-vascularization of bone tissue-engineered constructs. Stem Cell Research and Therapy, 2013, 4, 96. | 2.4 | 31 |
| 72 | Correlating ex vivo and in vivo osteogenic assays for quality control of clinically destined cGMP grade BM-MSC. Cytotherapy, 2013, 15, S18-S19. | 0.3 | 0 |

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|---|---|---|---|
| 73 | Advancing approaches for bone regeneration using freshly shipped marrow human mesenchymal stromal/stem cell produced into several european cGMP facilities. Cytotherapy, 2013, 15, S46. | 0.3 | 0 |
| 74 | Impact of Nanotechnology on Dental Implants. , 2013, , 323-336. | | 0 |
| 75 | Computational model combined with in vitro experiments to analyse mechanotransduction during mesenchymal stem cell adhesion. , 2013, 25, 97-113. | | 17 |
| 76 | The Human Nose Offers a New Stem Cell Source for Bone Injuries. , 2013, , 64-81. | | 0 |
| 77 | Effects Of a Novel Ceramic Biomaterial On Immune Modulatory Properties and Differentiation Potential Of Mesenchymal Stromal Cells. Blood, 2013, 122, 4858-4858. | 0.6 | 0 |
| 78 | Healing of long-bone defects in sheep metatarsals using bioceramics and mesenchymal stem cells. Current Orthopaedic Practice, 2012, 23, 369-376. | 0.1 | 1 |
| 79 | Research Highlights. Nanomedicine, 2012, 7, 181-183. | 1.7 | 2 |
| 80 | Impact of Nanotechnology on Dental Implants. , 2012, , 71-84. | | 3 |
| 81 | Cell differentiation and osseointegration influenced by nanoscale anodized titanium surfaces. Nanomedicine, 2012, 7, 967-980. | 1.7 | 57 |
| 82 | Early adhesion of human mesenchymal stem cells on TiO<sub>2</sub> surfaces studied by singleâ€cell force spectroscopy measurements. Journal of Molecular Recognition, 2012, 25, 262-269. | 1.1 | 20 |
| 83 | Pericyte-Like Progenitors Show High Immaturity and Engraftment Potential as Compared with Mesenchymal Stem Cells. PLoS ONE, 2012, 7, e48648. | 1.1 | 50 |
| 84 | Consistent Osteoblastic Differentiation of Human Mesenchymal Stem Cells with Bone Morphogenetic Protein 4 and Low Serum. Tissue Engineering - Part C: Methods, 2011, 17, 249-259. | 1.1 | 36 |
| 85 | Bioreactors for Bone Tissue Engineering. International Journal of Artificial Organs, 2011, 34, 259-270. | 0.7 | 38 |
| 86 | Influence of space-filling materials in subantral bone augmentation: blood clot vs. autogenous bone chips vs. bovine hydroxyapatite. Clinical Oral Implants Research, 2011, 22, 538-545. | 1.9 | 52 |
| 87 | Bone regeneration: stem cell therapies and clinical studies in orthopaedics and traumatology. Journal of Cellular and Molecular Medicine, 2011, 15, 1266-1286. | 1.6 | 116 |
| 88 | Treatment of periodontal defects in dogs using an injectable composite hydrogel/biphasic calcium phosphate. Journal of Materials Science: Materials in Medicine, 2011, 22, 1707-1717. | 1.7 | 36 |
| 89 | Biomimetic Materials for Bone Tissue Engineering â€“ State of the Art and Future Trends. Advanced Engineering Materials, 2011, 13, B135. | 1.6 | 61 |
| 90 | Behaviour of mesenchymal stem cells, fibroblasts and osteoblasts on smooth surfaces. Acta Biomaterialia, 2011, 7, 1525-1534. | 4.1 | 76 |

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|---|---|---|---|
| 91 | Microporous Biphasic Calcium Phosphate Granules (MBCPÂ®) Retain Immunological Properties of Bone Marrow-Derived Mesenchymal Stromal Cells and Promote Osteoblastic Differentiation. Blood, 2011, 118, 1924-1924. | 0.6 | 1 |
| 92 | Adhesion and osteogenic differentiation of human mesenchymal stem cells on titanium nanopores. , 2011, 22, 84-96. | | 114 |
| 93 | Porous beta tricalcium phosphate scaffolds used as a BMPâ€2 delivery system for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1105-1114. | 2.1 | 48 |
| 94 | Macrophage and osteoblast responses to biphasic calcium phosphate microparticles. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1588-1595. | 2.1 | 24 |
| 95 | Evaluation of trabecular bone patterns on dental radiographic images: influence of cortical bone. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 96 | Osteoblastic differentiation of human mesenchymal stem cells with platelet lysate. Biomaterials, 2010, 31, 270-278. | 5.7 | 190 |
| 97 | 3D environment on human mesenchymal stem cells differentiation for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2010, 21, 981-987. | 1.7 | 46 |
| 98 | Hydrogel/calcium phosphate composites require specific properties for three-dimensional culture of human bone mesenchymal cells. Acta Biomaterialia, 2010, 6, 2932-2939. | 4.1 | 28 |
| 99 | Experimental Animal Models in Periodontology: A Review. Open Dentistry Journal, 2010, 4, 37-47. | 0.2 | 170 |
| 100 | Cell interaction with nanopatterned surface of implants. Nanomedicine, 2010, 5, 937-947. | 1.7 | 86 |
| 101 | Nanotechnology and Dental Implants. International Journal of Biomaterials, 2010, 2010, 1-9. | 1.1 | 87 |
| 102 | The Human Nose Harbors a Niche of Olfactory Ectomesenchymal Stem Cells Displaying Neurogenic and Osteogenic Properties. Stem Cells and Development, 2010, 19, 853-866. | 1.1 | 205 |
| 103 | Solâ€“gel synthesis and characterization of macroporous calcium phosphate bioceramics containing microporosity. Acta Biomaterialia, 2009, 5, 735-742. | 4.1 | 55 |
| 104 | Correlating implant stability to bone structure. Clinical Oral Implants Research, 2009, 20, 1140-1145. | 1.9 | 135 |
| 105 | Calcium Phosphate Coated Rapid Prototyped Porous Titanium Scaffolds. Key Engineering Materials, 2008, 361-363, 907-910. | 0.4 | 0 |
| 106 | Osteoblastic cell behaviour on different titanium implant surfaces. Acta Biomaterialia, 2008, 4, 535-543. | 4.1 | 250 |
| 107 | Osteogenicity of biphasic calcium phosphate ceramics and bone autograft in a goat model. Biomaterials, 2008, 29, 1177-1188. | 5.7 | 183 |
| 108 | Bone tissue formation in sheep muscles induced by a biphasic calcium phosphate ceramic and fibrin glue composite. Journal of Materials Science: Materials in Medicine, 2008, 19, 667-675. | 1.7 | 70 |

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|---|---|---|---|
| 109 | Bone growth in rapid prototyped porous titanium implants. Journal of Biomedical Materials Research - Part A, 2008, 85A, 664-673. | 2.1 | 101 |
| 110 | Rapid prototyped porous titanium coated with calcium phosphate as a scaffold for bone tissue engineering. Biomaterials, 2008, 29, 2608-2615. | 5.7 | 168 |
| 111 | Radio frequency plasma treatments on titanium for enhancement of bioactivity. Acta Biomaterialia, 2008, 4, 1953-1962. | 4.1 | 16 |
| 112 | Specific plasma membrane protein phenotype of culture-amplified and native human bone marrow mesenchymal stem cells. Blood, 2008, 111, 2631-2635. | 0.6 | 238 |
| 113 | Histomorphometric analysis of the osseointegration of four different implant surfaces in the femoral epiphyses of rabbits. Clinical Oral Implants Research, 2008, 19, 1103-1110. | 1.9 | 68 |
| 114 | Osteoblastic cell behavior on nanostructured metal implants. Nanomedicine, 2008, 3, 61-71. | 1.7 | 27 |
| 115 | Selfâ€Hardening Hydrogel for Bone Tissue Engineering. Macromolecular Symposia, 2008, 266, 30-35. | 0.4 | 7 |
| 116 | In Vivo Performance of an Injectable Biphasic Calcium Phosphate Bone Filler. Key Engineering Materials, 2008, 396-398, 583-586. | 0.4 | 1 |
| 117 | Flow and mass transfer modelling for tissue engineering applications. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 53-55. | 0.9 | 0 |
| 118 | Development of a Cellular Biochip Mimicking in Vitro Organs for Chronic Toxicity Analysis. , 2007, , . | | 0 |
| 119 | Multiphasic Biomaterials: A Concept for Bone Substitutes Developed in the "Pays de la Loire". Key Engineering Materials, 2007, 361-363, -17--1. | 0.4 | 1 |
| 120 | Calcium Phosphate Coatings on Titanium Alloy via an Electrodeposition Method. Key Engineering Materials, 2007, 330-332, 549-552. | 0.4 | 0 |
| 121 | Comparison of Osteoinduction by Autologous Bone and Biphasic Calcium Phosphate Ceramic in Goats. Key Engineering Materials, 2007, 330-332, 1063-1066. | 0.4 | 3 |
| 122 | Macro/Microporous Biphasic Calcium Phosphate Cylinders and Resorbable Collagen Membranes for Guided Bone Growth. Key Engineering Materials, 2007, 361-363, 439-442. | 0.4 | 0 |
| 123 | Histomorphometric Evaluation of Bone Response to Different Titanium Implant Surfaces. Key Engineering Materials, 2007, 361-363, 613-616. | 0.4 | 0 |
| 124 | Hybrid composites of calcium phosphate granules, fibrin glue, and bone marrow for skeletal repair. Journal of Biomedical Materials Research - Part A, 2007, 81A, 399-408. | 2.1 | 23 |
| 125 | Protein mapping of calcium carbonate biominerals by immunogold. Biomaterials, 2007, 28, 2368-2377. | 5.7 | 49 |
| 126 | The safety and efficacy of an injectable bone substitute in dental sockets demonstrated in a human clinical trial. Biomaterials, 2007, 28, 3295-3305. | 5.7 | 102 |

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| 127 | Surface treatments of titanium dental implants for rapid osseointegration. Dental Materials, 2007, 23, 844-854. | 1.6 | 2,031 |
| 128 | Osteogenic properties of calcium phosphate ceramics and fibrin glue based composites. Journal of Materials Science: Materials in Medicine, 2007, 18, 225-235. | 1.7 | 50 |
| 129 | Inflammatory reaction in rats muscle after implantation of biphasic calcium phosphate micro particles. Journal of Materials Science: Materials in Medicine, 2007, 18, 287-294. | 1.7 | 54 |
| 130 | An electrodeposition method of calcium phosphate coatings on titanium alloy. Journal of Materials Science: Materials in Medicine, 2007, 18, 381-390. | 1.7 | 72 |
| 131 | Interactions of total bone marrow cells with increasing quantities of macroporous calcium phosphate ceramic granules. Journal of Materials Science: Materials in Medicine, 2007, 18, 1983-1990. | 1.7 | 38 |
| 132 | Nanostructured biomaterials. Nanomedicine, 2006, 1, 493-494. | 1.7 | 4 |
| 133 | Study of osteoblastic cells in a microfluidic environment. Biomaterials, 2006, 27, 586-595. | 5.7 | 145 |
| 134 | Micro-architecture of calcium phosphate granules and fibrin glue composites for bone tissue engineering. Biomaterials, 2006, 27, 2716-2722. | 5.7 | 112 |
| 135 | Osteointegration of femoral stem prostheses with a bilayered calcium phosphate coating. Biomaterials, 2006, 27, 1119-1128. | 5.7 | 42 |
| 136 | Bone repair using a new injectable self-crosslinkable bone substitute. Journal of Orthopaedic Research, 2006, 24, 628-635. | 1.2 | 96 |
| 137 | Bone Growth in Porous Titanium Implants Made by Rapid Prototyping. Key Engineering Materials, 2006, 309-311, 1099-1104. | 0.4 | 4 |
| 138 | OstÃ©ointÃ©gration dâ€™implants orthopÃ©diques et dentaires. Materiaux Et Techniques, 2006, 94, 71-76. | 0.3 | 0 |
| 139 | Biological performance of uncoated and octacalcium phosphate-coated Ti6Al4V. Biomaterials, 2005, 26, 23-36. | 5.7 | 205 |
| 140 | Bone tissue engineering on amorphous carbonated apatite and crystalline octacalcium phosphate-coated titanium discs. Biomaterials, 2005, 26, 5231-5239. | 5.7 | 103 |
| 141 | Small-animal models for testing macroporous ceramic bone substitutes. Journal of Biomedical Materials Research Part B, 2005, 72B, 69-78. | 3.0 | 71 |
| 142 | In vitro biological effects of titanium rough surface obtained by calcium phosphate grid blasting. Biomaterials, 2005, 26, 157-165. | 5.7 | 131 |
| 143 | Caspartin and Calprismin, Two Proteins of the Shell Calcitic Prisms of the Mediterranean Fan Mussel Pinna nobilis. Journal of Biological Chemistry, 2005, 280, 33895-33908. | 1.6 | 129 |
| 144 | Ectopic bone formation by microporous calcium phosphate ceramic particles in sheep muscles. Bone, 2005, 36, 1086-1093. | 1.4 | 255 |

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|---|---|---|---|
| 145 | Incorporation of different antibiotics into carbonated hydroxyapatite coatings on titanium implants, release and antibiotic efficacy. Journal of Controlled Release, 2004, 99, 127-137. | 4.8 | 400 |
| 146 | Biomimetic and electrolytic calcium phosphate coatings on titanium alloy: physicochemical characteristics and cell attachment. Biomaterials, 2004, 25, 583-592. | 5.7 | 161 |
| 147 | Nano-scale study of the nucleation and growth of calcium phosphate coating on titanium implants. Biomaterials, 2004, 25, 2901-2910. | 5.7 | 165 |
| 148 | Bone Morphogenetic Protein 2 Incorporated into Biomimetic Coatings Retains Its Biological Activity. Tissue Engineering, 2004, 10, 101-108. | 4.9 | 132 |
| 149 | A Review of Bioceramics and Fibrin Sealant. , 2004, 8, 1-11. | | 152 |
| 150 | Calcium phosphate interactions with titanium oxide and alumina substrates: an XPS study. Journal of Materials Science: Materials in Medicine, 2003, 14, 419-425. | 1.7 | 38 |
| 151 | In vitroandin vivodegradation of biomimetic octacalcium phosphate and carbonate apatite coatings on titanium implants. Journal of Biomedical Materials Research - Part A, 2003, 64A, 378-387. | 2.1 | 182 |
| 152 | Osteogenecity of octacalcium phosphate coatings applied on porous metal implants. Journal of Biomedical Materials Research - Part A, 2003, 66A, 779-788. | 2.1 | 210 |
| 153 | Remineralization of demineralized albuminâ€calcium phosphate coatings. Journal of Biomedical Materials Research - Part A, 2003, 67A, 1155-1162. | 2.1 | 21 |
| 154 | Osteointegration of biomimetic apatite coating applied onto dense and porous metal implants in femurs of goats. , 2003, 67B, 655-665. | | 231 |
| 155 | Proteins incorporated into biomimetically prepared calcium phosphate coatings modulate their mechanical strength and dissolution rate. Biomaterials, 2003, 24, 65-70. | 5.7 | 144 |
| 156 | Novel Method to Manufacture Porous Hydroxyapatite by Dualâ€Phase Mixing. Journal of the American Ceramic Society, 2003, 86, 65-72. | 1.9 | 58 |
| 157 | Bone Formation by Mesenchymal Progenitor Cells Cultured on Dense and Microporous Hydroxyapatite Particles. Tissue Engineering, 2003, 9, 1179-1188. | 4.9 | 63 |
| 158 | Toughening of Hydroxyapatite through Interpenetrating Organic/Inorganic Microstructure. Key Engineering Materials, 2003, 240-242, 147-150. | 0.4 | 3 |
| 159 | Macroporous Biphasic Calcium Phosphate Scaffold with High Permeability/Porosity Ratio. Tissue Engineering, 2003, 9, 535-548. | 4.9 | 191 |
| 160 | Improvement of Porous Titanium with Thicker Struts. Key Engineering Materials, 2003, 240-242, 547-550. | 0.4 | 16 |
| 161 | Osteo-Integration of Plasma-Spray, Biomimetic Octacalcium Phosphate and Carbonate-Apatite Coatings on Titanium Implants. Key Engineering Materials, 2003, 240-242, 387-390. | 0.4 | 2 |
| 162 | Osteoinductive Properties of Micro Macroporous Biphasic Calcium Phosphate Bioceramics. Key Engineering Materials, 2003, 254-256, 1005-1008. | 0.4 | 28 |

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|---|---|---|---|
| 163 | Introduction of Ectopic Bone Formation by BMP-2 Incorporated Biomimetically into Calcium Phosphate Coatings of Titanium-Alloy Implants. Key Engineering Materials, 2003, 240-242, 667-670. | 0.4 | 8 |
| 164 | Accurate Geometric Characterization of Macroporous Scaffold of Tissue Engineering. Key Engineering Materials, 2003, 240-242, 541-546. | 0.4 | 4 |
| 165 | Preparation and Characterization of Porous Titanium. Key Engineering Materials, 2002, 218-220, 51-54. | 0.4 | 46 |
| 166 | Proteins Modulate the Properties of Biomimetic Calcium Phosphate Coatings on Titanium Implants. Key Engineering Materials, 2002, 218-220, 157-160. | 0.4 | 0 |
| 167 | Resorbability and solubility of zinc-containing tricalcium phosphate. Journal of Biomedical Materials Research Part B, 2002, 60, 224-231. | 3.0 | 81 |
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