Guillaume Mabilleau

List of Publications by Year
in descending order

90 papers	2,883 citations	159573 30 h-index	189881 50 g-index
101 all docs	101 docs citations	101 times ranked	4007 citing authors

#	Article	IF	Citations
1	Influence of fluoride, hydrogen peroxide and lactic acid on the corrosion resistance of commercially pure titanium. Acta Biomaterialia, 2006, 2, 121-129.	8.3	184
2	Characterisation of adipocyteâ€derived extracellular vesicle subtypes identifies distinct protein and lipid signatures for large and small extracellular vesicles. Journal of Extracellular Vesicles, 2017, 6, 1305677.	12.2	173
3	Metal-on-metal hip resurfacing arthroplasty: A review of periprosthetic biological reactions. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 79, 734-747.	3.3	130
4	Increased osteoclastic activity in acute Charcotâ€™s osteoarthopathy: the role of receptor activator of nuclear factor-kappaB ligand. Diabetologia, 2008, 51, 1035-1040.	6.3	125
5	Use of glucagonâ€like peptideâ€1 receptor agonists and bone fractures: A metaâ€analysis of randomized clinical trials (èƒ°é«˜è¡€ç³–ç´æ·è,½â€1å•ä½“æ¿€åŠ¨å‰‚ä½¿ç”¨ä¸Žéª¨æŠ˜çš„å…³ç³»ï¼šéšæœºå¯¹ç…§è¯•éªŒçš„meta分析)	1.8	124
6	Glucose-dependent insulinotropic polypeptide (GIP) receptor deletion leads to reduced bone strength and quality. Bone, 2013, 56, 337-342.	2.9	89
7	Interleukin-32 Promotes Osteoclast Differentiation but Not Osteoclast Activation. PLoS ONE, 2009, 4, e4173.	2.5	81
8	Optimal bone mechanical and material properties require a functional glucagon-like peptide-1 receptor. Journal of Endocrinology, 2013, 219, 59-68.	2.6	80
9	Thiazolidinediones Induce Osteocyte Apoptosis by a G Protein-coupled Receptor 40-dependent Mechanism. Journal of Biological Chemistry, 2012, 287, 23517-23526.	3.4	79
10	Glucose-dependent insulinotropic polypeptide receptor deficiency leads to modifications of trabecular bone volume and quality in mice. Bone, 2013, 53, 221-230.	2.9	70
11	Biodegradability of poly (2-hydroxyethyl methacrylate) in the presence of the J774.2 macrophage cell line. Biomaterials, 2004, 25, 5155-5162.	11.4	61
12	Stable Incretin Mimetics Counter Rapid Deterioration of Bone Quality in Type 1 Diabetes Mellitus. Journal of Cellular Physiology, 2015, 230, 3009-3018.	4.1	60
13	Caveolin-1 Expression and Cavin Stability Regulate Caveolae Dynamics in Adipocyte Lipid Store Fluctuation. Diabetes, 2014, 63, 4032-4044.	0.6	57
14	Surviving anoxia in marine sediments: The metabolic response of ubiquitous benthic foraminifera (Ammonia tepida). PLoS ONE, 2017, 12, e0177604.	2.5	57
15	Cobalt, chromium and nickel affect hydroxyapatite crystal growth in vitro. Acta Biomaterialia, 2010, 6, 1555-1560.	8.3	56
16	Effects of the length of crosslink chain on poly(2-hydroxyethyl methacrylate) (pHEMA) swelling and biomechanical properties. Journal of Biomedical Materials Research - Part A, 2006, 77A, 35-42.	4.0	55
17	Iron inhibits hydroxyapatite crystal growth in vitro. Metabolism: Clinical and Experimental, 2008, 57, 903-910.	3.4	54
18	Aluminum and bone: Review of new clinical circumstances associated with Al3+ deposition in the calcified matrix of bone. Morphologie, 2016, 100, 95-105.	0.9	54

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19	Role of the A20-TRAF6 Axis in Lipopolysaccharide-mediated Osteoclastogenesis. Journal of Biological Chemistry, 2011, 286, 3242-3249.	3.4	51
20	Thiazolidinediones induce osteocyte apoptosis and increase sclerostin expression. Diabetic Medicine, 2010, 27, 925-932.	2.3	49
21	Effects of FGF-2 release from a hydrogel polymer on bone mass and microarchitecture. Biomaterials, 2008, 29, 1593-1600.	11.4	48
22	TSG-6 Regulates Bone Remodeling through Inhibition of Osteoblastogenesis and Osteoclast Activation. Journal of Biological Chemistry, 2008, 283, 25952-25962.	3.4	43
23	Improved methodology for measuring pore patterns in the benthic foraminiferal genus Ammonia. Marine Micropaleontology, 2016, 128, 1-13.	1.2	38
24	Beneficial effects of a N-terminally modified GIP agonist on tissue-level bone material properties. Bone, 2014, 63, 61-68.	2.9	37
25	Double incretin receptor knock-out (DIRKO) mice present with alterations of trabecular and cortical micromorphology and bone strength. Osteoporosis International, 2015, 26, 209-218.	3.1	37
26	Glucose-dependent insulinotropic polypeptide (GIP) directly affects collagen fibril diameter and collagen cross-linking in osteoblast cultures. Bone, 2015, 74, 29-36.	2.9	34
27	High fat-fed diabetic mice present with profound alterations of the osteocyte network. Bone, 2016, 90, 99-106.	2.9	34
28	Alteration of the bone tissue material properties in type 1 diabetes mellitus: A Fourier transform infrared microspectroscopy study. Bone, 2015, 76, 31-39.	2.9	33
29	Glucose-dependent insulinotropic polypeptide (GIP) dose-dependently reduces osteoclast differentiation and resorption. Bone, 2016, 91, 102-112.	2.9	33
30	An overview of cellular ultrastructure in benthic foraminifera: New observations of rotalid species in the context of existing literature. Marine Micropaleontology, 2018, 138, 12-32.	1.2	33
31	Number of Circulating CD14-Positive Cells and the Serum Levels of TNF-Î± Are Raised in Acute Charcot Foot. Diabetes Care, 2011, 34, e33-e33.	8.6	32
32	The influence of processes for the purification of human bone allografts on the matrix surface and cytocompatibility. Biomaterials, 2006, 27, 4204-4211.	11.4	31
33	SEQUESTERED CHLOROPLASTS IN THE BENTHIC FORAMINIFERHAYNESINA GERMANICA: CELLULAR ORGANIZATION, OXYGEN FLUXES AND POTENTIAL ECOLOGICAL IMPLICATIONS. Journal of Foraminiferal Research, 2017, 47, 268-278.	0.5	30
34	Sclerostin antibody reduces long bone fractures in the oim/oim model of osteogenesis imperfecta. Bone, 2019, 124, 137-147.	2.9	29
35	Bone mineralization and vascularization in bisphosphonate-related osteonecrosis of the jaw: an experimental study in the rat. Clinical Oral Investigations, 2018, 22, 2997-3006.	3.0	28
36	Novel skeletal effects of glucagon-like peptide-1 (GLP-1) receptor agonists. Journal of Endocrinology, 2018, 236, R29-R42.	2.6	28

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37	Polymerization of 2â€(hydroxyethyl)methacrylate by two different initiator/accelerator systems: a Raman spectroscopic monitoring. Journal of Raman Spectroscopy, 2008, 39, 767-771.	2.5	27
38	A new stable GIPâ€“Oxyntomodulin hybrid peptide improved bone strength both at the organ and tissue levels in genetically-inherited type 2 diabetes mellitus. Bone, 2016, 87, 102-113.	2.9	27
39	Chemical structure of methylmethacrylate-2-[2â€²,3â€²,5â€²-triiodobenzoyl]oxoethyl methacrylate copolymer, radio-opacity, in vitro and in vivo biocompatibility. Acta Biomaterialia, 2008, 4, 1762-1769.	8.3	26
40	A flavoprotein supports cell wall properties in the necrotrophic fungus Alternaria brassicicola. Fungal Biology and Biotechnology, 2017, 4, 1.	5.1	25
41	Micro and macroarchitectural changes at the tibia after botulinum toxin injection in the growing rat. Bone, 2012, 50, 858-864.	2.9	23
42	Factors associated with an increased risk of vertebral fracture in monoclonal gammopathies of undetermined significance. Blood Cancer Journal, 2015, 5, e345-e345.	6.2	23
43	Changes in ultrastructural features of the foraminifera Ammonia spp. in response to anoxic conditions: Field and laboratory observations. Marine Micropaleontology, 2018, 138, 72-82.	1.2	23
44	Three-dimensional arrangement of Î²-tricalcium phosphate granules evaluated by microcomputed tomography and fractal analysis. Acta Biomaterialia, 2015, 11, 404-411.	8.3	20
45	Hypodynamia Alters Bone Quality and Trabecular Microarchitecture. Calcified Tissue International, 2017, 100, 332-340.	3.1	20
46	Strontium ranelate stimulates trabecular bone formation in a rat tibial bone defect healing process. Osteoporosis International, 2017, 28, 3475-3487.	3.1	20
47	Acetoacetate protects macrophages from lactic acidosis-induced mitochondrial dysfunction by metabolic reprograming. Nature Communications, 2021, 12, 7115.	12.8	20
48	The GLP-1 Receptor Agonist Exenatide Ameliorates Bone Composition and Tissue Material Properties in High Fat Fed Diabetic Mice. Frontiers in Endocrinology, 2019, 10, 51.	3.5	19
49	Sclerostin-Antibody Treatment Decreases Fracture Rates in Axial Skeleton and Improves the Skeletal Phenotype in Growing oim/oim Mice. Calcified Tissue International, 2020, 106, 494-508.	3.1	19
50	A Multifaceted Study of Scedosporium boydii Cell Wall Changes during Germination and Identification of GPI-Anchored Proteins. PLoS ONE, 2015, 10, e0128680.	2.5	18
51	GIP analogues augment bone strength by modulating bone composition in diet-induced obesity in mice. Peptides, 2020, 125, 170207.	2.4	18
52	Exenatide Improves Bone Quality in a Murine Model of Genetically Inherited Type 2 Diabetes Mellitus. Frontiers in Endocrinology, 2017, 8, 327.	3.5	17
53	Anex vivoevaluation of blood coagulation and thromboresistance of two extracorporeal circuit coatings with reduced and full heparin dose. Interactive Cardiovascular and Thoracic Surgery, 2014, 18, 763-769.	1.1	16
54	Measurement by vertical scanning profilometry of resorption volume and lacunae depth caused by osteoclasts on dentine slices. Journal of Microscopy, 2011, 241, 147-152.	1.8	15

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55	Depth and volume of resorption induced by osteoclasts generated in the presence of RANKL, TNF-alpha/IL-1 or LIGHT. Cytokine, 2012, 57, 294-299.	3.2	15
56	Aluminum and iron can be deposited in the calcified matrix of bone exostoses. Journal of Inorganic Biochemistry, 2015, 152, 174-179.	3.5	15
57	Efficacy of targeting bone-specific GIP receptor in ovariectomy-induced bone loss. Journal of Endocrinology, 2018, 239, 215-227.	2.6	15
58	Sitagliptin Alters Bone Composition in High-Fat-Fed Mice. Calcified Tissue International, 2019, 104, 437-448.	3.1	15
59	In vitro biological test methods to evaluate bioresorbability. , 2008, , 145-160.		13
60	Abrasion of 6 dentifrices measured by vertical scanning interference microscopy. Journal of Applied Oral Science, 2013, 21, 475-481.	1.8	13
61	Effects of anti-diabetic drugs on bone metabolism. Expert Review of Endocrinology and Metabolism, 2015, 10, 663-675.	2.4	13
62	Normal human adipose tissue functions and differentiation in patients with biallelic LPIN1 inactivating mutations. Journal of Lipid Research, 2017, 58, 2348-2364.	4.2	13
63	Dapagliflozin and Liraglutide Therapies Rapidly Enhanced Bone Material Properties and Matrix Biomechanics at Bone Formation Site in a Type 2 Diabetic Mouse Model. Calcified Tissue International, 2020, 107, 281-293.	3.1	13
64	Incretins and bone: friend or foe?. Current Opinion in Pharmacology, 2015, 22, 72-78.	3.5	12
65	Polyhydroxyalkanoate (PHBV) fibers obtained by a wet spinning method: Good in vitro cytocompatibility but absence of in vivo biocompatibility when used as a bone graft. Morphologie, 2019, 103, 94-102.	0.9	12
66	Enteroendocrine K Cells Exert Complementary Effects to Control Bone Quality and Mass in Mice. Journal of Bone and Mineral Research, 2020, 35, 1363-1374.	2.8	12
67	Evaluation of Surface Roughness of Hydrogels by Fractal Texture Analysis during Swelling. Langmuir, 2006, 22, 4843-4845.	3.5	11
68	Interplay between bone and incretin hormones: A review. Morphologie, 2017, 101, 9-18.	0.9	11
69	Aluminum inhibits the growth of hydroxyapatite crystals developed on a biomimetic methacrylic polymer. Journal of Trace Elements in Medicine and Biology, 2013, 27, 346-351.	3.0	10
70	Diversity of bone matrix adhesion proteins modulates osteoblast attachment and organization of actin cytoskeleton. Morphologie, 2014, 98, 53-64.	0.9	9
71	Cellular changes during Medicago truncatula hypocotyl growth depend on temperature and genotype. Plant Science, 2014, 217-218, 18-26.	3.6	9
72	Incretin-based therapy for the treatment of bone fragility in diabetes mellitus. Peptides, 2018, 100, 108-113.	2.4	9

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73	Human macrophages and osteoclasts resorb Î²-tricalcium phosphate in vitro but not mouse macrophages. Micron, 2019, 125, 102730.	2.2	9
74	Use of GLP-1 mimetic in type 2 diabetes mellitus: is it the end of fragility fractures?. Endocrine, 2015, 48, 1-2.	2.3	6
75	Metaplastic woven bone in bone metastases: A Fourier-transform infrared analysis and imaging of bone quality (FTIR). Morphologie, 2018, 102, 69-77.	0.9	5
76	Cellular and molecular effects of thiazolidinediones on bone cells: a review. International Journal of Biochemistry and Molecular Biology, 2011, 2, 240-6.	0.1	5
77	GLP-2 administration in ovariectomized mice enhances collagen maturity but did not improve bone strength. Bone Reports, 2020, 12, 100251.	0.4	4
78	Osteomorphs as a tool for personalized medicine. Trends in Endocrinology and Metabolism, 2021, 32, 655-656.	7.1	4
79	[GlyÂ²]-GLP-2, But Not Glucagon or [D-AlaÂ²]-GLP-1, Controls Collagen Crosslinking in Murine Osteoblast Cultures. Frontiers in Endocrinology, 2021, 12, 721506.	3.5	3
80	Characterization of Cells Interactions with Patterned Azopolymer-Based Materials using SEM, AFM and Video Microscopy. Open Biomedical Engineering Journal, 2018, 12, 92-100.	0.5	3
81	Update on: effects of anti-diabetic drugs on bone metabolism. Expert Review of Endocrinology and Metabolism, 2020, 15, 415-430.	2.4	2
82	Predicting Bone Regeneration with a Simple Blood Test. Trends in Molecular Medicine, 2021, 27, 622-623.	6.7	1
83	Biological response to common surface bearings used in orthopaedics. Journal of Surgical Orthopaedic Advances, 2008, 17, 34-9.	0.1	1
84	Differential effects of nitrogen-containing bisphosphonates on human PBMCs and MUTZ-3 cells. Bone Abstracts, 0, , .	0.0	0
85	Glucagon-like peptide 1 receptor is required for optimal bone strength and quality. Bone Abstracts, 0, , .	0.0	0
86	Glucose-dependent insulinotropic polypeptide receptor deletion results in a reduced bone strength and quality. Bone Abstracts, 0, , .	0.0	0
87	Double incretin receptor knock-out (DIRKO) mice present with alterations of trabecular and cortical microarchitectures and bone strength.. Bone Abstracts, 0, , .	0.0	0
88	Beneficial effects of a GIP mimetic on bone material properties. Bone Abstracts, 0, , .	0.0	0
89	Bone quality of metaplastic woven bone of mixed metastases: a FTIRI analysis. Bone Abstracts, 0, , .	0.0	0
90	Glucose-dependent insulinotropic polypeptide directly affects collagen deposition and maturation in osteoblast cultures. Bone Abstracts, 0, , .	0.0	0