Catherine Ambrose

List of Publications by Year
in descending order

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63 papers	3,457 citations	201385 27 h-index	138251 58 g-index
63 all docs	63 docs citations	63 times ranked	3937 citing authors

#	Article	IF	Citations
1	Fluid flow increases mineralized matrix deposition in 3D perfusion culture of marrow stromal osteoblasts in a dose-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12600-12605.	3.3	634
2	Undertreatment of Osteoporosis in Men With Hip Fracture. Archives of Internal Medicine, 2002, 162, 2217.	4.3	328
3	Excessive transforming growth factor-Î² signaling is a common mechanism in osteogenesis imperfecta. Nature Medicine, 2014, 20, 670-675.	15.2	237
4	Bioabsorbable Implants: Review of Clinical Experience in Orthopedic Surgery. Annals of Biomedical Engineering, 2004, 32, 171-177.	1.3	181
5	The role of the distal radioulnar ligaments, interosseous membrane, and joint capsule in distal radioulnar joint stability. Journal of Hand Surgery, 2000, 25, 341-351.	0.7	168
6	Thermally Cross-Linked Oligo(poly(ethylene glycol) fumarate) Hydrogels Support Osteogenic Differentiation of Encapsulated Marrow Stromal Cells In Vitro. Biomacromolecules, 2004, 5, 5-10.	2.6	144
7	Osteocyte-specific WNT1 regulates osteoblast function during bone homeostasis. Journal of Clinical Investigation, 2017, 127, 2678-2688.	3.9	143
8	In vitro osteogenic differentiation of marrow stromal cells encapsulated in biodegradable hydrogels. Journal of Biomedical Materials Research Part B, 2004, 70A, 235-244.	3.0	122
9	In vitro degradation of polymeric networks of poly(propylene fumarate) and the crosslinking macromer poly(propylene fumarate)-diacrylate. Biomaterials, 2003, 24, 571-577.	5.7	116
10	In Vitro Cytotoxicity of Injectable and Biodegradable Poly(propylene fumarate)-Based Networks:Â Unreacted Macromers, Cross-Linked Networks, and Degradation Products. Biomacromolecules, 2003, 4, 1026-1033.	2.6	105
11	Flow Perfusion Culture of Marrow Stromal Cells Seeded on Porous Biphasic Calcium Phosphate Ceramics. Annals of Biomedical Engineering, 2005, 33, 1238-1248.	1.3	95
12	Effective Treatment of Osteomyelitis with Biodegradable Microspheres in a Rabbit Model. Clinical Orthopaedics and Related Research, 2004, 421, 293-299.	0.7	74
13	Evaluation of thermal- and photo-crosslinked biodegradable poly(propylene fumarate)-based networks. Journal of Biomedical Materials Research Part B, 2003, 66A, 811-818.	3.0	71
14	The swaying mouse as a model of osteogenesis imperfecta caused by WNT1 mutations. Human Molecular Genetics, 2014, 23, 4035-4042.	1.4	66
15	Fabrication of poly(propylene fumarate)-based orthopaedic implants by photo-crosslinking through transparent silicone molds. Biomaterials, 2003, 24, 4707-4714.	5.7	56
16	Antibiotic Microspheres: Preliminary Testing for Potential Treatment of Osteomyelitis. Clinical Orthopaedics and Related Research, 2003, 415, 279-285.	0.7	51
17	Characterization of the Cross-Linked Structure of Fumarate-Based Degradable Polymer Networks. Macromolecules, 2002, 35, 4373-4379.	2.2	50
18	Total knee arthroplasty in hemophilic arthropathy. Journal of Arthroplasty, 2004, 19, 56-60.	1.5	46

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19	Type-I collagen produced by distinct fibroblast lineages reveals specific function during embryogenesis and Osteogenesis Imperfecta. Nature Communications, 2021, 12, 7199.	5.8	46
20	The Arthroscopic Square Knot: A Biomechanical Comparison With Open and Arthroscopic Knots. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2006, 22, 736-741.	1.3	40
21	An Alternative Patellar Fracture Fixation. Journal of Orthopaedic Trauma, 2013, 27, 345-351.	0.7	37
22	Tendon Transfer Fixation: Comparing a Tendon to Tendon Technique vs. Bioabsorbable Interference-Fit Screw Fixation. Foot and Ankle International, 2003, 24, 260-262.	1.1	36
23	E-selectin ligand 1 regulates bone remodeling by limiting bioactive TGF-Î² in the bone microenvironment. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7336-7341.	3.3	32
24	Calculation of the Opening Wedge for a Low Tibial Osteotomy. Foot and Ankle International, 2004, 25, 778-782.	1.1	31
25	Do Transsacral-transiliac Screws Across Uninjured Sacroiliac Joints Affect Pain and Functional Outcomes in Trauma Patients?. Clinical Orthopaedics and Related Research, 2016, 474, 1417-1421.	0.7	31
26	Tendon Transfer Fixation in the Foot and Ankle: A Biomechanical Study Evaluating Two Sizes of Pilot Holes for Bioabsorbable Screws. Foot and Ankle International, 2003, 24, 67-72.	1.1	29
27	Functional Significance of Bone Density Measurements in Children with Osteogenesis Imperfecta. Journal of Bone and Joint Surgery - Series A, 2006, 88, 1324-1330.	1.4	28
28	Evaluation of Antibiotic-Impregnated Microspheres for the Prevention of Implant-Associated Orthopaedic Infections. Journal of Bone and Joint Surgery - Series A, 2014, 96, 128-134.	1.4	27
29	Mutant cartilage oligomeric matrix protein (COMP) compromises bone integrity, joint function and the balance between adipogenesis and osteogenesis. Matrix Biology, 2018, 67, 75-89.	1.5	26
30	Effect of physiological temperature on the mechanical properties and network structure of biodegradable poly(propylene fumarate)-based networks. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 369-382.	1.9	25
31	Correlations Between Bone Mechanical Properties and Bone Composition Parameters in Mouse Models of Dominant and Recessive Osteogenesis Imperfecta and the Response to Anti-TGF-Î² Treatment. Journal of Bone and Mineral Research, 2017, 32, 347-359.	3.1	24
32	Lumbar Spine Trabecular Bone Score (TBS) Reflects Diminished Bone Quality in Patients With Diabetes Mellitus and Oral Glucocorticoid Therapy. Journal of Clinical Densitometry, 2018, 21, 185-192.	0.5	24
33	Beyond Blood Culture and Gram Stain Analysis: A Review of Molecular Techniques for the Early Detection of Bacteremia in Surgical Patients. Surgical Infections, 2016, 17, 294-302.	0.7	23
34	The Comparative Stability of Screw Versus Plate Versus Screw and Plate Coronoid Fixation. Journal of Hand Surgery, 2011, 36, 238-245.	0.7	22
35	Do Safe Radiographic Sacral Screw Pathways Exist in a Pediatric Patient Population and Do They Change With Age?. Journal of Orthopaedic Trauma, 2016, 30, 41-47.	0.7	19
36	Reduced bone loss in a murine model of postmenopausal osteoporosis lacking complement component 3. Journal of Orthopaedic Research, 2018, 36, 118-128.	1.2	18

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37	Mechanical properties of infant bone. Bone, 2018, 113, 151-160.	1.4	18
38	Surgical Preparation for Articular Cartilage Regeneration Without Penetration of the Subchondral Bone Plate. American Journal of Sports Medicine, 2011, 39, 624-631.	1.9	17
39	Biomechanical Testing of Cadaveric Specimens: Importance of Bone Mineral Density Assessment. Foot and Ankle International, 2002, 23, 850-855.	1.1	16
40	Fkbp10 Deletion in Osteoblasts Leads to Qualitative Defects in Bone. Journal of Bone and Mineral Research, 2017, 32, 1354-1367.	3.1	16
41	Association of Selective Serotonin Reuptake Inhibitors and Bone Mineral Density in Elderly Women. Journal of Clinical Densitometry, 2018, 21, 193-199.	0.5	16
42	ZIP4 silencing improves bone loss in pancreatic cancer. Oncotarget, 2015, 6, 26041-26051.	0.8	16
43	Trabecular Bone Score Is a Valuable Addition to Bone Mineral Density for Bone Quality Assessment in Older Mexican American Women With Type 2 Diabetes. Journal of Clinical Densitometry, 2018, 21, 355-359.	0.5	15
44	Micro-computed tomography assessment of bone structure in aging mice. Scientific Reports, 2022, 12, 8117.	1.6	15
45	Effect of Calcium Tablets on Interpretation of Lumbar Spine DXA Scans. Journal of Clinical Densitometry, 2006, 9, 97-104.	0.5	14
46	4-PBA Treatment Improves Bone Phenotypes in the Aga2 Mouse Model of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2020, 37, 675-686.	3.1	14
47	Long-term use of angiotensin-converting enzyme inhibitors protects against bone loss in African-American elderly men. Archives of Osteoporosis, 2017, 12, 94.	1.0	13
48	Fracture Healing in Collagenâ€Related Preclinical Models of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2020, 35, 1132-1148.	3.1	13
49	Tendon and motor phenotypes in the Crtap-/- mouse model of recessive osteogenesis imperfecta. ELife, 2021, 10, .	2.8	11
50	Mechanical testing of small fracture implants for comparison of insertion and failure torques. Archives of Orthopaedic and Trauma Surgery, 2003, 123, 388-391.	1.3	9
51	Polymers in Orthopaedic Surgery. , 2015, , 129-145.		8
52	Quantitative Analysis of Torsional Stiffness in Supplemental One-Third Tubular Plate Fixation in the Management of Isolated Syndesmosis Injuries. Foot and Ankle International, 2013, 34, 267-272.	1.1	7
53	Constrained acetabular cups. Journal of Arthroplasty, 2003, 18, 466-470.	1.5	6
54	Undertreatment of Osteoporosis in Men Who Have Had a Hip Fractureâ€"Reply. Archives of Internal Medicine, 2003, 163, 1236.	4.3	6

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55	Hypogonadism and Osteoporosis in Menâ€"Reply. Archives of Internal Medicine, 2003, 163, 1237.	4.3	4
56	Persistence of bacterial DNA in orthopedic infections. Diagnostic Microbiology and Infectious Disease, 2018, 91, 136-140.	0.8	4
57	Spatially offset raman spectroscopy for non-invasive assessment of fracture healing. Proceedings of SPIE, 2016, , .	0.8	3
58	Surgical Preparation for Articular Cartilage Regeneration in the Osteoarthritic Knee Joint. Cartilage, 2017, 8, 365-368.	1.4	3
59	Lower femoral neck bone mineral density (BMD) in elderly women not on statins. Women and Health, 2019, 59, 845-853.	0.4	3
60	Relationship Among MRTA, DXA, and QUS Revisited. Journal of Clinical Densitometry, 2005, 8, 396-403.	0.5	2
61	An objective assessment for bone drilling: A pilot study on vertical drilling. Journal of Orthopaedic Research, 2023, 41, 378-385.	1.2	2
62	Incidence, Complications, and Novel Treatment Strategies: Osteomyelitis. , 2022, , 203-225.		1
63	Are cephalomedullary interlocking screws superior to standard interlocking screws in subtrochanteric femoral fractures with an intact lesser trochanter?. Current Orthopaedic Practice, 2017, 28, 371-374.	0.1	0