

Michael Bottlang

List of Publications by Year in descending order

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43
papers

3,057
citations

201674

27
h-index

289244

40
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44
all docs

44
docs citations

44
times ranked

1769
citing authors

#	ARTICLE	IF	CITATIONS
1	Locked Plating of Distal Femur Fractures Leads to Inconsistent and Asymmetric Callus Formation. Journal of Orthopaedic Trauma, 2010, 24, 156-162.	1.4	257
2	Far Cortical Locking Can Improve Healing of Fractures Stabilized with Locking Plates. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1652-1660.	3.0	212
3	Scleral Biomechanics in the Aging Monkey Eye. , 2009, 50, 5226.		201
4	Biomechanical Changes in the Sclera of Monkey Eyes Exposed to Chronic IOP Elevations. , 2011, 52, 5656.		201
5	Far Cortical Locking Can Reduce Stiffness of Locked Plating Constructs While Retaining Construct Strength. Journal of Bone and Joint Surgery - Series A, 2009, 91, 1985-1994.	3.0	194
6	Effects of Construct Stiffness on Healing of Fractures Stabilized with Locking Plates. Journal of Bone and Joint Surgery - Series A, 2010, 92, 12-22.	3.0	172
7	2010 Mid-America Orthopaedic Association Physician in Training Award: Healing Complications Are Common After Locked Plating for Distal Femur Fractures. Clinical Orthopaedics and Related Research, 2011, 469, 1757-1765.	1.5	158
8	Peripapillary and Posterior Scleral Mechanicsâ€”Part II: Experimental and Inverse Finite Element Characterization. Journal of Biomechanical Engineering, 2009, 131, 051012.	1.3	132
9	Geometry of human ribs pertinent to orthopedic chest-wall reconstruction. Journal of Biomechanics, 2007, 40, 1310-1317.	2.1	108
10	A Nonlocking End Screw Can Decrease Fracture Risk Caused by Locked Plating in the Osteoporotic Diaphysis. Journal of Bone and Joint Surgery - Series A, 2009, 91, 620-627.	3.0	102
11	EMERGENT MANAGEMENT OF PELVIC RING FRACTURES WITH USE OF CIRCUMFERENTIAL COMPRESSION. Journal of Bone and Joint Surgery - Series A, 2002, 84, 43-47.	3.0	101
12	Biomechanics of Far Cortical Locking. Journal of Orthopaedic Trauma, 2011, 25, S21-S28.	1.4	91
13	Dynamic Fixation of Distal Femur Fractures Using Far Cortical Locking Screws. Journal of Orthopaedic Trauma, 2014, 28, 181-188.	1.4	84
14	Operative Chest Wall Fixation with Osteosynthesis Plates. Journal of Trauma, 2005, 58, 181-186.	2.3	82
15	Relative stability of conventional and locked plating fixation in a model of the osteoporotic femoral diaphysis. Clinical Biomechanics, 2009, 24, 203-209.	1.2	81
16	Far Cortical Locking Enables Flexible Fixation With Periarticular Locking Plates. Journal of Orthopaedic Trauma, 2011, 25, S29-S34.	1.4	81
17	Evaluation of a novel bicycle helmet concept in oblique impact testing. Accident Analysis and Prevention, 2019, 124, 58-65.	5.7	73
18	Surgical stabilization of flail chest injuries with MatrixRIB implants: A prospective observational study. Injury, 2013, 44, 232-238.	1.7	71

#	ARTICLE	IF	CITATIONS
19	Dynamic Stabilization with Active Locking Plates Delivers Faster, Stronger, and More Symmetric Fracture-Healing. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 466-474.	3.0	65
20	Angular Impact Mitigation system for bicycle helmets to reduce head acceleration and risk of traumatic brain injury. <i>Accident Analysis and Prevention</i> , 2013, 59, 109-117.	5.7	61
21	A surrogate long-bone model with osteoporotic material properties for biomechanical testing of fracture implants. <i>Journal of Biomechanics</i> , 2007, 40, 3297-3304.	2.1	49
22	Comparison of 4 Methods for Dynamization of Locking Plates: Differences in the Amount and Type of Fracture Motion. <i>Journal of Orthopaedic Trauma</i> , 2017, 31, 531-537.	1.4	44
23	Pelvic Circumferential Compression in the Presence of Soft-Tissue Injuries: A Case Report. <i>Journal of Trauma</i> , 2005, 59, 468-470.	2.3	40
24	Biomechanical Concepts for Fracture Fixation. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, S28-S33.	1.4	40
25	Depth-dependent strain of patellofemoral articular cartilage in unconfined compression. <i>Journal of Biomechanics</i> , 2005, 38, 667-672.	2.1	39
26	Anatomically Contoured Plates for Fixation of Rib Fractures. <i>Journal of Trauma</i> , 2010, 68, 611-615.	2.3	34
27	Evaluation of intramedullary rib splints for less-invasive stabilisation of rib fractures. <i>Injury</i> , 2009, 40, 1104-1110.	1.7	33
28	Dynamic Stabilization of Simple Fractures With Active Plates Delivers Stronger Healing Than Conventional Compression Plating. <i>Journal of Orthopaedic Trauma</i> , 2017, 31, 71-77.	1.4	32
29	Does locked plating of periprosthetic supracondylar femur fractures promote bone healing by callus formation? Two cases with opposite outcomes. <i>Iowa orthopaedic journal, The</i> , 2008, 28, 73-6.	0.5	30
30	Impact Performance Comparison of Advanced Bicycle Helmets with Dedicated Rotation-Damping Systems. <i>Annals of Biomedical Engineering</i> , 2020, 48, 68-78.	2.5	29
31	Dynamic locking plates provide symmetric axial dynamization to stimulate fracture healing. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1218-1225.	2.3	26
32	A computational technique to measure fracture callus in radiographs. <i>Journal of Biomechanics</i> , 2010, 43, 792-795.	2.1	24
33	Impact Performance Comparison of Advanced Snow Sport Helmets with Dedicated Rotation-Damping Systems. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2805-2813.	2.5	22
34	Healing results of periprosthetic distal femur fractures treated with far cortical locking technology: a preliminary retrospective study. <i>Iowa orthopaedic journal, The</i> , 2013, 33, 7-11.	0.5	18
35	Acquisition of full-field strain distributions on ovine fracture callus cross-sections with electronic speckle pattern interferometry. <i>Journal of Biomechanics</i> , 2008, 41, 701-705.	2.1	17
36	Less-Invasive Stabilization of Rib Fractures by Intramedullary Fixation: A Biomechanical Evaluation. <i>Journal of Trauma</i> , 2010, 68, 1218-1224.	2.3	14

#	ARTICLE	IF	CITATIONS
37	Effect of helmet design on impact performance of industrial safety helmets. Heliyon, 2022, 8, e09962.	3.2	12
38	In Response:. Journal of Orthopaedic Trauma, 2011, 25, e60.	1.4	6
39	The bottleneck of evidence-based fracture care. Injury, 2014, 45, S1-S2.	1.7	6
40	Elastically Suspending the Screw Holes of a Locked Osteosynthesis Plate Can Dampen Impact Loads. Journal of Applied Biomechanics, 2015, 31, 164-169.	0.8	5
41	Dynamic Fixation of Humeral Shaft Fractures Using Active Locking Plates: A Prospective Observational Study. Iowa orthopaedic journal, The, 2017, 37, 1-10.	0.5	5
42	Introducing the pelvic sling. Pelvic fracture stabilization made simple. Journal of Emergency Medical Services, 2003, 28, 84-93.	0.0	4
43	Biomechanics of Rib Fracture Fixation. , 2015, , 53-71.		1