

# Michael Bottlang

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

3,057  
citations

201674

27  
h-index

289244

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of helmet design on impact performance of industrial safety helmets. <i>Heliyon</i> , 2022, 8, e09962.	3.2	12
2	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
3	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
4	Evaluation of a novel bicycle helmet concept in oblique impact testing. <i>Accident Analysis and Prevention</i> , 2019, 124, 58-65.	5.7	73
5	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
6	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
7	Dynamic Fixation of Humeral Shaft Fractures Using Active Locking Plates: A Prospective Observational Study. <i>Iowa orthopaedic journal, The</i> , 2017, 37, 1-10.	0.5	5
8	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
9	Elastically Suspending the Screw Holes of a Locked Osteosynthesis Plate Can Dampen Impact Loads. <i>Journal of Applied Biomechanics</i> , 2015, 31, 164-169.	0.8	5
10	Dynamic locking plates provide symmetric axial dynamization to stimulate fracture healing. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1218-1225.	2.3	26
11	Biomechanical Concepts for Fracture Fixation. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, S28-S33.	1.4	40
12	Biomechanics of Rib Fracture Fixation. , 2015, , 53-71.		1
13	Dynamic Fixation of Distal Femur Fractures Using Far Cortical Locking Screws. <i>Journal of Orthopaedic Trauma</i> , 2014, 28, 181-188.	1.4	84
14	The bottleneck of evidence-based fracture care. <i>Injury</i> , 2014, 45, S1-S2.	1.7	6
15	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
16	Surgical stabilization of flail chest injuries with MatrixRIB implants: A prospective observational study. <i>Injury</i> , 2013, 44, 232-238.	1.7	71
17	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
18	Biomechanical Changes in the Sclera of Monkey Eyes Exposed to Chronic IOP Elevations. , 2011, 52, 5656.		201

#	ARTICLE	IF	CITATIONS
19	In Response:. Journal of Orthopaedic Trauma, 2011, 25, e60.	1.4	6
20	Biomechanics of Far Cortical Locking. Journal of Orthopaedic Trauma, 2011, 25, S21-S28.	1.4	91
21	Far Cortical Locking Enables Flexible Fixation With Periarticular Locking Plates. Journal of Orthopaedic Trauma, 2011, 25, S29-S34.	1.4	81
22	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
23	Anatomically Contoured Plates for Fixation of Rib Fractures. Journal of Trauma, 2010, 68, 611-615.	2.3	34
24	Locked Plating of Distal Femur Fractures Leads to Inconsistent and Asymmetric Callus Formation. Journal of Orthopaedic Trauma, 2010, 24, 156-162.	1.4	257
25	A computational technique to measure fracture callus in radiographs. Journal of Biomechanics, 2010, 43, 792-795.	2.1	24
26	Less-Invasive Stabilization of Rib Fractures by Intramedullary Fixation: A Biomechanical Evaluation. Journal of Trauma, 2010, 68, 1218-1224.	2.3	14
27	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
28	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
29	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
30	Scleral Biomechanics in the Aging Monkey Eye. , 2009, 50, 5226.		201
31	Peripapillary and Posterior Scleral Mechanicsâ€™Part II: Experimental and Inverse Finite Element Characterization. Journal of Biomechanical Engineering, 2009, 131, 051012.	1.3	132
32	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
33	Evaluation of intramedullary rib splints for less-invasive stabilisation of rib fractures. Injury, 2009, 40, 1104-1110.	1.7	33
34	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
35	Acquisition of full-field strain distributions on ovine fracture callus cross-sections with electronic speckle pattern interferometry. Journal of Biomechanics, 2008, 41, 701-705.	2.1	17
36	Does locked plating of periprosthetic supracondylar femur fractures promote bone healing by callus formation? Two cases with opposite outcomes. Iowa orthopaedic journal, The, 2008, 28, 73-6.	0.5	30

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37	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
38	Geometry of human ribs pertinent to orthopedic chest-wall reconstruction. <i>Journal of Biomechanics</i> , 2007, 40, 1310-1317.	2.1	108
39	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
40	Operative Chest Wall Fixation with Osteosynthesis Plates. <i>Journal of Trauma</i> , 2005, 58, 181-186.	2.3	82
41	Depth-dependent strain of patellofemoral articular cartilage in unconfined compression. <i>Journal of Biomechanics</i> , 2005, 38, 667-672.	2.1	39
42	Introducing the pelvic sling. Pelvic fracture stabilization made simple. <i>Journal of Emergency Medical Services</i> , 2003, 28, 84-93.	0.0	4
43	EMERGENT MANAGEMENT OF PELVIC RING FRACTURES WITH USE OF CIRCUMFERENTIAL COMPRESSION. <i>Journal of Bone and Joint Surgery - Series A</i> , 2002, 84, 43-47.	3.0	101