

Niels Hammer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157 papers	1,610 citations	22 h-index	30 g-index
176 ext. papers	2,063 ext. citations	3.2 avg, IF	5.06 L-index

#	Paper	IF	Citations
157	Ballistic trauma caused by military rifles: experimental study based on synthetic skull proxies.. <i>Forensic Science, Medicine, and Pathology</i> , 2022 , 18, 30	1.5	0
156	The intra-muscular course and distribution of the anterior interosseous nerve within pronator quadratus: An anatomical study.. <i>Journal of Clinical Orthopaedics and Trauma</i> , 2022 , 28, 101868	2.1	0
155	Expect the unexpected: The course of the inferior alveolar artery - Preliminary results and clinical implications. <i>Annals of Anatomy</i> , 2021 , 240, 151867	2.9	0
154	Assessing Protein Biomarkers to Detect Lethal Acute Traumatic Brain Injuries in Cerebrospinal Fluid. <i>Biomolecules</i> , 2021 , 11,	5.9	3
153	On the correlations of biomechanical properties of super-imposed temporal tissue layers and their age-, sex-, side- and post-mortem interval dependence. <i>Journal of Biomechanics</i> , 2021 , 130, 110847	2.9	0
152	A Rare Case of Facial Artery Branching-A Review of the Literature and a Case Report with Clinical Implications. <i>Medicina (Lithuania)</i> , 2021 , 57,	3.1	0
151	A systematic review and meta-analysis of the hip capsule innervation and its clinical implications. <i>Scientific Reports</i> , 2021 , 11, 5299	4.9	3
150	On the morphological relations of the Achilles tendon and plantar fascia via the calcaneus: a cadaveric study. <i>Scientific Reports</i> , 2021 , 11, 5986	4.9	3
149	Computed tomography osteoabsorptiometry-based investigation on subchondral bone plate alterations in sacroiliac joint dysfunction. <i>Scientific Reports</i> , 2021 , 11, 8652	4.9	1
148	Quantitative evaluation of the sacroiliac joint fixation in stress reduction on both sacroiliac joint cartilage and ligaments: A finite element analysis. <i>Clinical Biomechanics</i> , 2021 , 85, 105350	2.2	2
147	The dynamic impact behavior of the human neurocranium. <i>Scientific Reports</i> , 2021 , 11, 11331	4.9	1
146	Why heel spurs are traction spurs after all. <i>Scientific Reports</i> , 2021 , 11, 13291	4.9	1
145	GFAP positivity in neurons following traumatic brain injuries. <i>International Journal of Legal Medicine</i> , 2021 , 135, 2323-2333	3.1	2
144	Relative position of the supra-acetabular bone to the crestal plane: a radiological analysis. <i>BMJ Military Health</i> , 2021 , 167, 89-92	1	
143	Assessment of plantaris and peroneus tertius tendons as graft materials for ankle ligament reconstructions - A cadaveric biomechanical study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 115, 104244	4.1	2
142	Wrist at risk? - Considerations derived from a novel experimental setup to assess torques during hip reaming with potential implications on the orthopedic surgeonsShealth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104160	4.1	0
141	Preliminary observations of the sequence of damage in excised human juvenile cranial bone at speeds equivalent to falls from 1.6 m. <i>International Journal of Legal Medicine</i> , 2021 , 135, 527-538	3.1	6

140	A comparison on the detection accuracy of ante mortem computed tomography vs. autopsy for the diagnosis of pelvic ring injury in legal medicine. <i>Journal of Forensic Sciences</i> , 2021 , 66, 919-925	1.8	0
139	Biomechanical characterization of human temporal muscle fascia in uniaxial tensile tests for graft purposes in duraplasty. <i>Scientific Reports</i> , 2021 , 11, 2127	4.9	4
138	Topographical mapping of the mechanical characteristics of the human neurocranium considering the role of individual layers. <i>Scientific Reports</i> , 2021 , 11, 3721	4.9	4
137	Ultrasound in legal medicine-a missed opportunity or simply too late? A narrative review of ultrasonic applications in forensic contexts. <i>International Journal of Legal Medicine</i> , 2021 , 135, 2363-2383	3.1	0
136	How Complex Is the Complex Innervation of the Hip Joint Capsular Complex?. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2021 , 37, 2022-2024	5.4	1
135	Screening for Fatal Traumatic Brain Injuries in Cerebrospinal Fluid Using Blood-Validated CK and CK-MB Immunoassays. <i>Biomolecules</i> , 2021 , 11,	5.9	2
134	Immediate and 6-week effects of wearing a knee sleeve following anterior cruciate ligament reconstruction: a cross-over laboratory and randomised clinical trial. <i>BMC Musculoskeletal Disorders</i> , 2021 , 22, 655	2.8	0
133	Anatomical Landmarks for Intraoperative Adductor Canal Block in Total Knee Arthroplasty: A Cadaveric Feasibility Assessment. <i>Arthroplasty Today</i> , 2021 , 10, 82-86	2	0
132	Mechanical metric for skeletal biomechanics derived from spectral analysis of stiffness matrix. <i>Scientific Reports</i> , 2021 , 11, 15690	4.9	
131	Management of women with pregnancy-related pelvic girdle pain: an international Delphi study.. <i>Physiotherapy</i> , 2021 , 115, 66-84	3	1
130	Bone mineral density modeling via random field: Normality, stationarity, sex and age dependence. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 210, 106353	6.9	0
129	Subchondral Bone Changes Following Sacroiliac Joint Arthrodesis - A Morpho-mechanical Assessment of Surgical Treatment of the Painful Joint. <i>Pain Physician</i> , 2021 , 24, E317-E326	1.8	
128	Standardized tensile testing of soft tissue using a 3D printed clamping system.. <i>HardwareX</i> , 2020 , 8, e00159	1.9	6
127	Variations in Subscapularis Muscle Innervation-A Report on Case Series. <i>Medicina (Lithuania)</i> , 2020 , 56,	3.1	1
126	Mechanical properties of native and acellular temporal muscle fascia for surgical reconstruction and computational modelling purposes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103833	4.1	10
125	Realistic Haptic Feedback for Material Removal in Medical Simulations 2020 ,		3
124	Mechanical properties of human oral mucosa tissues are site dependent: A combined biomechanical, histological and ultrastructural approach. <i>Clinical and Experimental Dental Research</i> , 2020 , 6, 602-611	1.9	8
123	Quantification of fat in the posterior sacroiliac joint region applying a semi-automated segmentation method. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 191, 105386	6.9	2

122	Innervation of the hip joint capsular complex: A systematic review of histological and immunohistochemical studies and their clinical implications for contemporary treatment strategies in total hip arthroplasty. <i>PLoS ONE</i> , 2020 , 15, e0229128	3.7	10
121	Intra-Operative Detection of a Left-Sided Non-Recurrent Laryngeal Nerve during Vagus Nerve Stimulator Implantation. <i>Medicina (Lithuania)</i> , 2020 , 56,	3.1	3
120	The Value of a Modified Wiltse Approach for Deformity Correction in Neuromuscular Scoliosis. <i>International Journal of Spine Surgery</i> , 2020 , 14, 170-174	1.4	1
119	Experimental validation of adaptive pedicle screws-a novel implant concept using shape memory alloys. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 55-65	3.1	4
118	Phenoxyethanol-Based Embalming for Anatomy Teaching: An 18 YearsSExperience with Crosado Embalming at the University of Otago in New Zealand. <i>Anatomical Sciences Education</i> , 2020 , 13, 778-793	6.8	19
117	What is Considered a Variation of Biomechanical Parameters in Tensile Tests of Collagen-Rich Human Soft Tissues? Critical Considerations Using the Human Cranial Dura Mater as a Representative Morpho-Mechanic Model. <i>Medicina (Lithuania)</i> , 2020 , 56,	3.1	4
116	Passive load-deformation properties of human temporal muscle. <i>Journal of Biomechanics</i> , 2020 , 106, 109829	2.9	7
115	Subchondral bone strength of the sacroiliac joint-a combined approach using computed tomography osteoabsorptiometry (CT-OAM) imaging and biomechanical validation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 103978	4.1	2
114	A cadaver-based biomechanical model of acetabulum reaming for surgical virtual reality training simulators. <i>Scientific Reports</i> , 2020 , 10, 14545	4.9	4
113	An ossifying bridge - on the structural continuity between the Achilles tendon and the plantar fascia. <i>Scientific Reports</i> , 2020 , 10, 14523	4.9	12
112	Finite element analysis of load transition on sacroiliac joint during bipedal walking. <i>Scientific Reports</i> , 2020 , 10, 13683	4.9	10
111	Load-deformation characteristics of acellular human scalp: assessing tissue grafts from a material testing perspective. <i>Scientific Reports</i> , 2020 , 10, 19243	4.9	2
110	Surface coating and speckling of the human iliotibial tract does not affect its load-deformation properties. <i>Scientific Reports</i> , 2020 , 10, 20747	4.9	3
109	Anatomical structures at risk using different approaches for sacrospinous ligament fixation. <i>Clinical Anatomy</i> , 2020 , 33, 522-529	2.5	0
108	When and why was the phrenicoabdominal branch of the left phrenic nerve placed into the esophageal hiatus in German textbooks of anatomy? An anatomical study on 400 specimens reevaluating its course through the diaphragm. <i>Annals of Anatomy</i> , 2020 , 227, 151415	2.9	2
107	Load-deformation properties of the ligament of the head of femur in situ. <i>Clinical Anatomy</i> , 2020 , 33, 705-713	2.5	0
106	Consumption of sheep milk compared to cow milk can affect trabecular bone ultrastructure in a rat model. <i>Food and Function</i> , 2019 , 10, 163-171	6.1	2
105	Third primary branch of the posterior ramus of the spinal nerve at the thoracolumbar region: a cadaveric study. <i>Surgical and Radiologic Anatomy</i> , 2019 , 41, 951-961	1.4	1

104	Tissue biomechanics of the human head are altered by Thiel embalming, restricting its use for biomechanical validation. <i>Clinical Anatomy</i> , 2019 , 32, 903-913	2.5	15
103	Tensile properties of the human iliotibial tract depend on height and weight. <i>Medical Engineering and Physics</i> , 2019 , 69, 85-91	2.4	10
102	A biomechanical comparison between human calvarial bone and a skull simulant considering the role of attached periosteum and dura mater. <i>International Journal of Legal Medicine</i> , 2019 , 133, 1603-1610	2.1	5
101	Is Pelvic Floor Dysfunction Associated With Development of Transient Low Back Pain During Prolonged Standing? A Protocol. <i>Clinical Medicine Insights Women's Health</i> , 2019 , 12, 1179562X19849603	2	1
100	On the usability of skull maceration in fatal head injuries caused by axes. <i>Forensic Science, Medicine, and Pathology</i> , 2019 , 15, 678-679	1.5	1
99	Water-content related alterations in macro and micro scale tendon biomechanics. <i>Scientific Reports</i> , 2019 , 9, 7887	4.9	19
98	An Investigation on the Correlation between the Mechanical Properties of Human Skull Bone, Its Geometry, Microarchitectural Properties, and Water Content. <i>Journal of Healthcare Engineering</i> , 2019 , 2019, 6515797	3.7	13
97	Response to Re: External fixation of unstable pelvic fractures: a systematic review and meta-analysis. <i>ANZ Journal of Surgery</i> , 2019 , 89, 787	1	0
96	The utility and benefit of a newly established postgraduate training course in surgical exposures for orthopedic and trauma surgery. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019 , 139, 1673-1680	3.6	1
95	Migrating Myofibroblastic Iliotibial Band-Derived Fibroblasts Represent a Promising Cell Source for Ligament Reconstruction. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
94	Anterior cervical spine blood supply: a cadaveric study. <i>Surgical and Radiologic Anatomy</i> , 2019 , 41, 607-611	4.14	5
93	Pelvis and Sacroiliac Joint Motion: Refining a Model of the Human Osteoligamentous Pelvis for Assessing Physiological Load Deformation Using an Inverted Validation Approach. <i>BioMed Research International</i> , 2019 , 2019, 3973170	3	4
92	Survival-time dependent increase in neuronal IL-6 and astroglial GFAP expression in fatally injured human brain tissue. <i>Scientific Reports</i> , 2019 , 9, 11771	4.9	13
91	Quantification of fat in the posterior sacroiliac joint region: fat volume is sex and age dependant. <i>Scientific Reports</i> , 2019 , 9, 14935	4.9	3
90	Duplicated Vagus Nerve in Adolescence: Case Report and Review of Literature. <i>World Neurosurgery</i> , 2019 , 131, 180-185	2.1	1
89	Sacroiliac Joint Ligaments and Sacroiliac Pain: A Case-Control Study on Micro- and Ultrastructural Findings on Morphologic Alterations. <i>Pain Physician</i> , 2019 , 6, E615-E625	1.8	5
88	External fixation of unstable pelvic fractures: a systematic review and meta-analysis. <i>ANZ Journal of Surgery</i> , 2019 , 89, 1022-1027	1	8
87	Mechanical Properties of Human Dura Mater in Tension - An Analysis at an Age Range of 2 to 94 Years. <i>Scientific Reports</i> , 2019 , 9, 16655	4.9	42

86	How to Avoid Posterior Interosseous Nerve Injury During Single-Incision Distal Biceps Repair Drilling. <i>Clinical Orthopaedics and Related Research</i> , 2019 , 477, 424-431	2.2	13
85	Post-mortem in situ stability of serum markers of cerebral damage and acute phase response. <i>International Journal of Legal Medicine</i> , 2019 , 133, 871-881	3.1	10
84	A systematic review of the morphology and function of the sacrotuberous ligament. <i>Clinical Anatomy</i> , 2019 , 32, 396-407	2.5	3
83	How much force is required to perforate a colon during colonoscopy? An experimental study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 91, 139-148	4.1	4
82	Frequency and intensity of pulmonary bone marrow and fat embolism due to manual or automated chest compressions during cardiopulmonary resuscitation. <i>Forensic Science, Medicine, and Pathology</i> , 2019 , 15, 48-55	1.5	4
81	Physiological in vitro sacroiliac joint motion: a study on three-dimensional posterior pelvic ring kinematics. <i>Journal of Anatomy</i> , 2019 , 234, 346-358	2.9	14
80	In-silico pelvis and sacroiliac joint motion-A review on published research using numerical analyses. <i>Clinical Biomechanics</i> , 2019 , 61, 95-104	2.2	4
79	Effects of Cutting the Sacrospinous and Sacrotuberous Ligaments. <i>Clinical Anatomy</i> , 2019 , 32, 231-237	2.5	4
78	A Systematic Review of the Normal Sacroiliac Joint Anatomy and Adjacent Tissues for Pain Physicians. <i>Pain Physician</i> , 2019 , 22, E247-E274	1.8	4
77	Sacroiliac Joint Ligaments and Sacroiliac Pain: A Case-Control Study on Micro- and Ultrastructural Findings on Morphologic Alterations. <i>Pain Physician</i> , 2019 , 22, E615-E625	1.8	2
76	Decellularized Iliotibial Band Recolonized with Allogenic Homotopic Fibroblasts or Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , 2018 , 1577, 55-69	1.4	3
75	Thoracostomy. <i>Notfall Und Rettungsmedizin</i> , 2018 , 21, 212-224	0.4	3
74	Intranasale Medikamentengabe im Rettungsdienst. <i>Notfall Und Rettungsmedizin</i> , 2018 , 21, 120-128	0.4	1
73	Sonographic evaluation of the vagus nerves: Protocol, reference values, and side-to-side differences. <i>Muscle and Nerve</i> , 2018 , 57, 766-771	3.4	28
72	Elastic behavior of brain simulants in comparison to porcine brain at different loading velocities. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 609-615	4.1	14
71	Vascular branches from cutaneous nerve of the forearm and hand: Application to better understanding raynaud's disease. <i>Clinical Anatomy</i> , 2018 , 31, 734-741	2.5	8
70	Peri-arterial Autonomic Innervation of the Human Ear. <i>Scientific Reports</i> , 2018 , 8, 11469	4.9	5
69	Utilization of 3D printing technology to facilitate and standardize soft tissue testing. <i>Scientific Reports</i> , 2018 , 8, 11340	4.9	29

68	Novel concept of a modular hip implant could contribute to less implant failure in THA: a hypothesis. <i>Patient Safety in Surgery</i> , 2018 , 12, 1	3	2
67	Presence and User Experience in a Virtual Environment under the Influence of Ethanol: An Explorative Study. <i>Scientific Reports</i> , 2018 , 8, 6407	4.9	11
66	Preliminary biomechanical results of a novel pin configuration for external fixation of vertical shear pelvic fractures. <i>ANZ Journal of Surgery</i> , 2018 , 88, 1051-1055	1	5
65	Ossification of the Ligamentum Flavum in a Nineteenth-Century Skeletal Population Sample from Ireland: Using Bioarchaeology to Reveal a Neglected Spine Pathology. <i>Scientific Reports</i> , 2018 , 8, 9313	4.9	7
64	Verification of a novel measuring method for determining pre- and postoperative leg length in the context of total hip arthroplasty: a technical feasibility study. <i>Journal of Medical Engineering and Technology</i> , 2018 , 42, 588-594	1.8	1
63	Finite element models and material data for analysis of infant head impacts. <i>Heliyon</i> , 2018 , 4, e01010	3.6	6
62	Intra-individual alterations of serum markers routinely used in forensic pathology depending on increasing post-mortem interval. <i>Scientific Reports</i> , 2018 , 8, 12811	4.9	26
61	Pelvic orthosis effects on posterior pelvis kinematics An in-vitro biomechanical study. <i>Scientific Reports</i> , 2018 , 8, 15980	4.9	9
60	On the influence of surface coating on tissue biomechanics - effects on rat bones under routine conditions with implications for image-based deformation detection. <i>BMC Musculoskeletal Disorders</i> , 2018 , 19, 387	2.8	1
59	Biomechanical evaluation of hybrid double plate osteosynthesis using a locking plate and an inverted third tubular plate for the treatment of proximal humeral fractures. <i>PLoS ONE</i> , 2018 , 13, e0206349	3.7	11
58	The impact of capsular repair on the risk for dislocation after revision total hip arthroplasty - a retrospective cohort-study of 259 cases. <i>BMC Musculoskeletal Disorders</i> , 2018 , 19, 314	2.8	7
57	Chest compression-associated injuries in cardiac arrest patients treated with manual chest compressions versus automated chest compression devices (LUCAS II) - a forensic autopsy-based comparison. <i>Forensic Science, Medicine, and Pathology</i> , 2018 , 14, 515-525	1.5	31
56	Cervical vagus nerve morphometry and vascularity in the context of nerve stimulation - A cadaveric study. <i>Scientific Reports</i> , 2018 , 8, 7997	4.9	32
55	Mechanical properties of the human scalp in tension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 84, 188-197	4.1	15
54	Being there again [Presence in real and virtual environments and its relation to usability and user experience using a mobile navigation task. <i>International Journal of Human Computer Studies</i> , 2017 , 101, 76-87	4.6	51
53	Positional Relations of the Cervical Vagus Nerve Revisited. <i>Neuromodulation</i> , 2017 , 20, 361-368	3.1	11
52	Pelvic and lower extremity physiological cross-sectional areas: an MRI study of the living young and comparison to published research literature. <i>Surgical and Radiologic Anatomy</i> , 2017 , 39, 849-857	1.4	3
51	Biomechanical analysis of stiffness and fracture displacement after using PMMA-augmented sacroiliac screw fixation for sacrum fractures. <i>Biomedizinische Technik</i> , 2017 , 62, 421-428	1.3	18

50	A novel phased-concept course for the delivery of anatomy and orthopedics training in medical education. <i>Anatomical Sciences Education</i> , 2017 , 10, 372-382	6.8	4
49	Organotypic Hippocampal Slice Cultures As a Model to Study Neuroprotection and Invasiveness of Tumor Cells. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	12
48	Reevaluation of the arterial blood supply of the auricle. <i>Journal of Anatomy</i> , 2017 , 230, 315-324	2.9	22
47	Subthalamic nucleus volumes are highly consistent but decrease age-dependently-a combined magnetic resonance imaging and stereology approach in humans. <i>Human Brain Mapping</i> , 2017 , 38, 909-922	5.9	22
46	Can the Diagnostics of Triangular Fibrocartilage Complex Lesions Be Improved by MRI-Based Soft-Tissue Reconstruction? An Imaging-Based Workup and Case Presentation. <i>BioMed Research International</i> , 2017 , 2017, 5870875	3	
45	Site-dependent acellularisation effects explain altered tissue mechanics: ultrastructural insights. <i>Folia Morphologica</i> , 2017 , 76, 355-360	0.9	2
44	A preliminary technical study on sodium dodecyl sulfate-induced changes of the nano-structural and macro-mechanical properties in human iliotibial tract specimens. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 61, 164-173	4.1	12
43	Reference data on muscle volumes of healthy human pelvis and lower extremity muscles: an in vivo magnetic resonance imaging feasibility study. <i>Surgical and Radiologic Anatomy</i> , 2016 , 38, 97-106	1.4	13
42	The Stress-Strain Data of the Hip Capsule Ligaments Are Gender and Side Independent Suggesting a Smaller Contribution to Passive Stiffness. <i>PLoS ONE</i> , 2016 , 11, e0163306	3.7	12
41	Acellularization-Induced Changes in Tensile Properties Are Organ Specific - An In-Vitro Mechanical and Structural Analysis of Porcine Soft Tissues. <i>PLoS ONE</i> , 2016 , 11, e0151223	3.7	23
40	On the suitability of Thiel-fixed samples for biomechanical purposes: Critical considerations on the articles of Liao et al. "Elastic Properties of Thiel-Embalmed Human Ankle Tendon and Ligament" and Verstraete et al. "Impact of Drying and Thiel Embalming on Mechanical Properties of Achilles Tendons". <i>Clinical Anatomy</i> , 2016 , 29, 424-5	2.5	7
39	Unilateral multi-target deep brain stimulation in hemidystonia and hemichoreoathetosis following ischemic thalamic stroke. <i>Basal Ganglia</i> , 2016 , 6, 153-156		2
38	Load and failure behavior of human muscle samples in the context of proximal femur replacement. <i>BMC Musculoskeletal Disorders</i> , 2016 , 17, 149	2.8	13
37	Tensile properties of the hip joint ligaments are largely variable and age-dependent - An in-vitro analysis in an age range of 14-93 years. <i>Journal of Biomechanics</i> , 2016 , 49, 3437-3443	2.9	21
36	A pilot trial comparing the tear-out behavior in screw-sockets and cemented polyethylene acetabular components - a cadaveric study. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2016 , 102, 723-8	2.9	2
35	A comparison of two surgical approaches in functional neurosurgery: individualized versus conventional stereotactic frames. <i>Computer Aided Surgery</i> , 2015 , 20, 34-40		2
34	The arterial blood supply of the helical rim and the earlobe-based advancement flap (ELBAF): a new strategy for reconstructions of helical rim defects. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2015 , 68, 56-62	1.7	14
33	Comparison of modified Thiel embalming and ethanol-glycerin fixation in an anatomy environment: Potentials and limitations of two complementary techniques. <i>Anatomical Sciences Education</i> , 2015 , 8, 74-85	6.8	58

32	Influence of short-term fixation with mixed formalin or ethanol solution on the mechanical properties of human cortical bone. <i>Current Directions in Biomedical Engineering</i> , 2015 , 1, 335-339	0.5	12
31	Safety concerns for rescue providers using sternal intraosseous infusion systems. <i>Journal of Trauma and Acute Care Surgery</i> , 2015 , 79, 517-8	3.3	1
30	Tissue Engineering of Ureteral Grafts: Preparation of Biocompatible Crosslinked Ureteral Scaffolds of Porcine Origin. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 89	5.8	13
29	Pelvic belt effects on pelvic morphometry, muscle activity and body balance in patients with sacroiliac joint dysfunction. <i>PLoS ONE</i> , 2015 , 10, e0116739	3.7	19
28	Human vagus nerve branching in the cervical region. <i>PLoS ONE</i> , 2015 , 10, e0118006	3.7	44
27	Pelvic Belt Effects on Health Outcomes and Functional Parameters of Patients with Sacroiliac Joint Pain. <i>PLoS ONE</i> , 2015 , 10, e0136375	3.7	18
26	Teaching surgical exposures to undergraduate medical students: an integration concept for anatomical and surgical education. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015 , 135, 795-803	3.6	13
25	Quantification of material slippage in the iliotibial tract when applying the partial plastination clamping technique. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 49, 112-7	4.1	13
24	Takotsubo cardiomyopathy - An unexpected complication in spine surgery. <i>International Journal of Surgery Case Reports</i> , 2015 , 6C, 172-4	0.8	10
23	Comparison of the Fluid Resuscitation Rate with and without External Pressure Using Two Intraosseous Infusion Systems for Adult Emergencies, the CITRIN (Comparison of InTRAosseous infusion systems in emergency medicine)-Study. <i>PLoS ONE</i> , 2015 , 10, e0143726	3.7	13
22	Median nerve fascicular anatomy as a basis for distal neural prostheses. <i>Annals of Anatomy</i> , 2014 , 196, 144-9	2.9	12
21	On the permanent hip-stabilizing effect of atmospheric pressure. <i>Journal of Biomechanics</i> , 2014 , 47, 2660-5	0.5	6
20	The extent of ligament injury and its influence on pelvic stability following type II anteroposterior compression pelvic injuries--A computer study to gain insight into open book trauma. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 873-9	3.8	20
19	Ligament-induced sacral fractures of the pelvis are possible. <i>Clinical Anatomy</i> , 2014 , 27, 770-7	2.5	12
18	Ethanol and formaldehyde fixation irreversibly alter bone's organic matrix. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 252-8	4.1	32
17	Do cells contribute to tendon and ligament biomechanics?. <i>PLoS ONE</i> , 2014 , 9, e105037	3.7	29
16	Pelvic belt effects on sacroiliac joint ligaments: a computational approach to understand therapeutic effects of pelvic belts. <i>Pain Physician</i> , 2014 , 17, 43-51	1.8	23
15	Spectrophotometric measurements of human tissues for the detection of subcutaneous blood vessels in an endonasal endoscopic surgical approach. <i>Journal of Biophotonics</i> , 2013 , 6, 310-3	3.1	4

14	An algorithm for the calculation of three-dimensional collagen fiber orientation in ligaments using angle-sensitive MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1595-602	4.4	13
13	Ligamentous influence in pelvic load distribution. <i>Spine Journal</i> , 2013 , 13, 1321-30	4	40
12	Does histology predict the clinical outcome after lumbar intervertebral disc herniation: no. <i>Medical Hypotheses</i> , 2013 , 80, 215-9	3.8	
11	Implementing conventional Zamorano Dujovny frames versus individually manufactured microTargeting platforms--a comparative study on deep brain stimulation in Parkinson patients. <i>Stereotactic and Functional Neurosurgery</i> , 2013 , 91, 392-8	1.6	8
10	Combined spectrophotometry and tensile measurements of human connective tissues: potentials and limitations. <i>Journal of Biomedical Optics</i> , 2013 , 18, 060506	3.5	5
9	Oblique sectional planes of block platinates eased by Sac Plastination. <i>Annals of Anatomy</i> , 2012 , 194, 404-6	2.9	3
8	Ultimate stress and age-dependent deformation characteristics of the iliotibial tract. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 16, 81-6	4.1	36
7	Deformation behavior of the iliotibial tract under different states of fixation. <i>Medical Engineering and Physics</i> , 2012 , 34, 1221-7	2.4	49
6	Ethanol-glycerin fixation with thymol conservation: a potential alternative to formaldehyde and phenol embalming. <i>Anatomical Sciences Education</i> , 2012 , 5, 225-33	6.8	60
5	Substitution of formaldehyde in cross anatomy is possible. <i>Journal of the National Cancer Institute</i> , 2011 , 103, 610-1	9.7	21
4	Novel insights into the sacroiliac joint ligaments. <i>Spine</i> , 2010 , 35, 257-63	3.3	36
3	Description of the iliolumbar ligament for computer-assisted reconstruction. <i>Annals of Anatomy</i> , 2010 , 192, 162-7	2.9	23
2	Demonstration of pelvic anatomy by modified midline transection that maintains intact internal pelvic organs. <i>Anatomical Sciences Education</i> , 2010 , 3, 254-60	6.8	3
1	The sacrotuberous and the sacrospinous ligament--a virtual reconstruction. <i>Annals of Anatomy</i> , 2009 , 191, 417-25	2.9	36