

Wellington Hsu

List of Publications by Year in descending order

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100
papers

4,053
citations

159585

30
h-index

123424

61
g-index

100
all docs

100
docs citations

100
times ranked

4401
citing authors

#	ARTICLE	IF	CITATIONS
1	ADJACENT SEGMENT DEGENERATION IN THE LUMBAR SPINE. <i>Journal of Bone and Joint Surgery - Series A</i> , 2004, 86, 1497-1503.	3.0	640
2	Hyperelastic "bone": A highly versatile, growth factor-free, osteoregenerative, scalable, and surgically friendly biomaterial. <i>Science Translational Medicine</i> , 2016, 8, 358ra127.	12.4	300
3	Bony ingrowth potential of 3D-printed porous titanium alloy: a direct comparison of interbody cage materials in an in vivo ovine lumbar fusion model. <i>Spine Journal</i> , 2018, 18, 1250-1260.	1.3	161
4	Gel Scaffolds of BMP-2 Binding Peptide Amphiphile Nanofibers for Spinal Arthrodesis. <i>Advanced Healthcare Materials</i> , 2015, 4, 131-141.	7.6	154
5	Sulfated glycopeptide nanostructures for multipotent protein activation. <i>Nature Nanotechnology</i> , 2017, 12, 821-829.	31.5	148
6	Lumbar pseudarthrosis: a review of current diagnosis and treatment. <i>Neurosurgical Focus</i> , 2015, 39, E10.	2.3	128
7	The NFL Orthopaedic Surgery Outcomes Database (NO-SOD). <i>American Journal of Sports Medicine</i> , 2016, 44, 2255-2262.	4.2	109
8	The Professional Athlete Spine Initiative: outcomes after lumbar disc herniation in 342 elite professional athletes. <i>Spine Journal</i> , 2011, 11, 180-186.	1.3	101
9	The Effect of an Orthopaedic Surgical Procedure in the National Basketball Association. <i>American Journal of Sports Medicine</i> , 2016, 44, 1056-1061.	4.2	101
10	The use of bone morphogenetic protein in spine fusion. <i>Spine Journal</i> , 2008, 8, 419-425.	1.3	100
11	Stem Cells from Human Fat as Cellular Delivery Vehicles in an Athymic Rat Posterolateral Spine Fusion Model. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 1043-1052.	3.0	93
12	Impact of Resident Involvement on Orthopaedic Surgery Outcomes: An Analysis of 30,628 Patients from the American College of Surgeons National Surgical Quality Improvement Program Database. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e131.	3.0	87
13	Outcomes Following Nonoperative and Operative Treatment for Cervical Disc Herniations in National Football League Athletes. <i>Spine</i> , 2011, 36, 800-805.	2.0	84
14	Performance-Based Outcomes After Anterior Cruciate Ligament Reconstruction in Professional Athletes Differ Between Sports. <i>American Journal of Sports Medicine</i> , 2017, 45, 2226-2232.	4.2	80
15	Odontoid Fractures: Update on Management. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2010, 18, 383-394.	2.5	79
16	Performance-Based Outcomes Following Lumbar Discectomy in Professional Athletes in the National Football League. <i>Spine</i> , 2010, 35, 1247-1251.	2.0	76
17	Cancer Risk from Bone Morphogenetic Protein Exposure in Spinal Arthrodesis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1417-1422.	3.0	75
18	Trunk axial rotation in baseball pitching and batting. <i>Sports Biomechanics</i> , 2013, 12, 324-333.	1.6	73

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19	Nanostructured Biomaterials for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 922.	4.1	72
20	Validation of Patient Reported Outcomes Measurement Information System (PROMIS) Computer Adaptive Tests (CATs) in the Surgical Treatment of Lumbar Spinal Stenosis. <i>Spine</i> , 2018, 43, 1521-1528.	2.0	63
21	Improving the Clinical Evidence of Bone Graft Substitute Technology in Lumbar Spine Surgery. <i>Global Spine Journal</i> , 2012, 2, 239-248.	2.3	56
22	C5 Palsy After Cervical Spine Surgery: A Multicenter Retrospective Review of 59 Cases. <i>Global Spine Journal</i> , 2017, 7, 64S-70S.	2.3	51
23	Ceramic-Based Bone Grafts as a Bone Grafts Extender for Lumbar Spine Arthrodesis: A Systematic Review. <i>Global Spine Journal</i> , 2014, 4, 211-216.	2.3	47
24	Differences in bone mineral density of fixation points between lumbar cortical and traditional pedicle screws. <i>Spine Journal</i> , 2016, 16, 835-841.	1.3	47
25	Athletic performance and career longevity following anterior cruciate ligament reconstruction in the National Basketball Association. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3031-3037.	4.2	47
26	The effect of vancomycin powder on bone healing in a rat spinal rhBMP-2 model. <i>Journal of Neurosurgery: Spine</i> , 2016, 25, 147-153.	1.7	36
27	The Effect of Local Versus Intravenous Corticosteroids on the Likelihood of Dysphagia and Dysphonia Following Anterior Cervical Discectomy and Fusion. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 1461-1472.	3.0	36
28	Esophageal Perforation Following Anterior Cervical Spine Surgery: Case Report and Review of the Literature. <i>Global Spine Journal</i> , 2017, 7, 28S-36S.	2.3	34
29	Impact of CrossFit-Related Spinal Injuries. <i>Clinical Journal of Sport Medicine</i> , 2019, 29, 482-485.	1.8	34
30	3D-Printed Ceramic-Demineralized Bone Matrix Hyperelastic Bone Composite Scaffolds for Spinal Fusion. <i>Tissue Engineering - Part A</i> , 2020, 26, 157-166.	3.1	33
31	Biologics in Spine Arthrodesis. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, 163-170.	1.9	31
32	Epidemiology and Outcomes of Vertebral Artery Injury in 16,582 Cervical Spine Surgery Patients: An AOSpine North America Multicenter Study. <i>Global Spine Journal</i> , 2017, 7, 21S-27S.	2.3	31
33	Characterizing the Host Response to rhBMP-2 in a Rat Spinal Arthrodesis Model. <i>Spine</i> , 2013, 38, E691-E698.	2.0	30
34	Impact of Insulin Dependence on Lumbar Surgery Outcomes. <i>Spine</i> , 2016, 41, E687-E693.	2.0	30
35	Outcomes After Lumbar Disc Herniation in the National Basketball Association. <i>Sports Health</i> , 2016, 8, 43-49.	2.7	29
36	Recurrent Laryngeal Nerve Palsy After Cervical Spine Surgery: A Multicenter AOSpine Clinical Research Network Study. <i>Global Spine Journal</i> , 2017, 7, 53S-57S.	2.3	29

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37	Nanocomposite therapy as a more efficacious and less inflammatory alternative to bone morphogenetic protein in a rodent arthrodesis model. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1812-1819.	2.3	27
38	Epidural Hematoma Following Cervical Spine Surgery. <i>Global Spine Journal</i> , 2017, 7, 120S-126S.	2.3	27
39	Prognosis Following Hip Arthroscopy Varies in Professional Athletes Based on Sport. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 837-842.e1.	2.7	26
40	Novel Osteobiologics and Biomaterials in the Treatment of Spinal Disorders. <i>Neurosurgery</i> , 2017, 80, S100-S107.	1.1	25
41	The role of intense athletic activity on structural lumbar abnormalities in adolescent patients with symptomatic low back pain. <i>European Spine Journal</i> , 2016, 25, 2842-2848.	2.2	24
42	Intervertebral disc herniation in elite athletes. <i>International Orthopaedics</i> , 2019, 43, 833-840.	1.9	24
43	Anterior Cervical Infection: Presentation and Incidence of an Uncommon Postoperative Complication. <i>Global Spine Journal</i> , 2017, 7, 12S-16S.	2.3	23
44	Dioxin Exposure Impairs BMP-2-Mediated Spinal Fusion in a Rat Arthrodesis Model. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 1003-1010.	3.0	22
45	Pre-existing Lumbar Spine Diagnosis as a Predictor of Outcomes in National Football League Athletes. <i>American Journal of Sports Medicine</i> , 2015, 43, 972-978.	4.2	22
46	Radionuclide Imaging in the Diagnosis and Management of Orthopaedic Disease. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2012, 20, 151-159.	2.5	19
47	Future Advances in Spine Surgery: The AOSpine North America Perspective. <i>Neurosurgery</i> , 2017, 80, S1-S8.	1.1	19
48	Does the Level of Cervical Disc Herniation Surgery Affect Performance-based Outcomes in National Football League Athletes?. <i>Spine</i> , 2016, 41, 1785-1789.	2.0	18
49	Return to Play for Athletes. <i>Neurosurgery Clinics of North America</i> , 2017, 28, 163-171.	1.7	18
50	Osteoinductivity and biomechanical assessment of a 3D printed demineralized bone matrix-ceramic composite in a rat spine fusion model. <i>Acta Biomaterialia</i> , 2021, 127, 146-158.	8.3	18
51	Risk Factors for Reoperation and Performance-Based Outcomes After Operative Fixation of Foot Fractures in the Professional Athlete: A Cross-Sport Analysis. <i>Sports Health</i> , 2018, 10, 70-74.	2.7	17
52	Cervical spine surgery in professional athletes: a systematic review. <i>Neurosurgical Focus</i> , 2016, 40, E10.	2.3	16
53	Return to Play After Lumbar Spine Surgery. <i>Clinics in Sports Medicine</i> , 2016, 35, 609-619.	1.8	16
54	Management of Lumbar Conditions in the Elite Athlete. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2017, 25, 489-498.	2.5	16

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55	3D Printing Applications in Minimally Invasive Spine Surgery. <i>Minimally Invasive Surgery</i> , 2018, 2018, 1-8.	0.5	16
56	Mechanistic insight into the effects of Aryl Hydrocarbon Receptor activation on osteogenic differentiation. <i>Bone Reports</i> , 2017, 6, 51-59.	0.4	15
57	Spinal Biologics in Minimally Invasive Lumbar Surgery. <i>Minimally Invasive Surgery</i> , 2018, 2018, 1-15.	0.5	15
58	Aryl Hydrocarbon Receptor Antagonists Mitigate the Effects of Dioxin on Critical Cellular Functions in Differentiating Human Osteoblast-Like Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 225.	4.1	15
59	Performance-based outcomes following patellar tendon repair in professional athletes. <i>Physician and Sportsmedicine</i> , 2020, 48, 110-115.	2.1	15
60	Trends in National Use of Anterior Cervical Discectomy and Fusion from 2006 to 2016. <i>World Neurosurgery</i> , 2020, 138, e42-e51.	1.3	15
61	Biological Substitutes/Extenders for Spinal Arthrodesis. <i>Spine</i> , 2014, 39, S86-S98.	2.0	14
62	A cross-sport comparison of performance-based outcomes of professional athletes following primary microfracture of the knee. <i>Knee</i> , 2018, 25, 692-698.	1.6	14
63	Post-lumbar discectomy reoperations that are associated with poor clinical and socioeconomic outcomes can be reduced through use of a novel annular closure device: results from a 2-year randomized controlled trial. <i>ClinicoEconomics and Outcomes Research</i> , 2018, Volume 10, 349-357.	1.9	12
64	Synthetic Bone Graft Materials in Spine Fusion: Current Evidence and Future Trends. <i>International Journal of Spine Surgery</i> , 2021, 15, 104-112.	1.5	12
65	Augmented Reality (AR) in Orthopedics: Current Applications and Future Directions. <i>Current Reviews in Musculoskeletal Medicine</i> , 2021, 14, 397-405.	3.5	12
66	Management of degenerative cervical myelopathy – An update. <i>Revista Da Associação Médica Brasileira</i> , 2016, 62, 886-894.	0.7	11
67	Brachial Plexopathy After Cervical Spine Surgery. <i>Global Spine Journal</i> , 2017, 7, 17S-20S.	2.3	11
68	Consensus Recommendations on the Prehospital Care of the Injured Athlete With a Suspected Catastrophic Cervical Spine Injury. <i>Journal of Athletic Training</i> , 2020, 55, 563-572.	1.8	11
69	Magnetic Resonance Imaging of the Hand and Wrist: Techniques and Spectrum of Disease. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013, 95, e68-1-12.	3.0	10
70	Prevalence and Outcomes in Patients Undergoing Reintubation After Anterior Cervical Spine Surgery: Results From the AOSpine North America Multicenter Study on 8887 Patients. <i>Global Spine Journal</i> , 2017, 7, 96S-102S.	2.3	10
71	Orthobiologics in minimally invasive lumbar fusion. <i>Journal of Spine Surgery</i> , 2019, 5, S11-S18.	1.2	10
72	Three-Dimensional Printing in Minimally Invasive Spine Surgery. <i>Current Reviews in Musculoskeletal Medicine</i> , 2019, 12, 425-435.	3.5	10

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73	Preclinical Safety of a 3D-Printed Hydroxyapatite-Demineralized Bone Matrix Scaffold for Spinal Fusion. <i>Spine</i> , 2022, 47, 82-89.	2.0	10
74	Epidemiology, Treatment, and Performance-Based Outcomes in American Professional Baseball Players With Symptomatic Spondylolysis and Isthmic Spondylolisthesis. <i>American Journal of Sports Medicine</i> , 2020, 48, 2765-2773.	4.2	9
75	Spine Surgery in Athletes With Low Back Pain-Considerations for Management and Treatment. <i>Asian Journal of Sports Medicine</i> , 2014, 5, e24284.	0.3	8
76	Recombinant Human Bone Morphogenetic Protein-2 in Spine Surgery. <i>JBJS Reviews</i> , 2014, 2, .	2.0	8
77	A Multicenter Study of the Presentation, Treatment, and Outcomes of Cervical Dural Tears. <i>Global Spine Journal</i> , 2017, 7, 58S-63S.	2.3	8
78	Trends in national utilization of posterior lumbar fusion and 30-day reoperation and readmission rates from 2006â€“2016. <i>Clinical Neurology and Neurosurgery</i> , 2020, 199, 106310.	1.4	8
79	Assessing the Early Impact of the COVID-19 Pandemic on Spine Surgery Fellowship Education. <i>Clinical Spine Surgery</i> , 2021, 34, E186-E193.	1.3	8
80	Return to Play Guidelines After Cervical Spine Injuries in American Football Athletes. <i>Spine</i> , 2021, 46, 886-892.	2.0	7
81	Can the American College of Surgeons Risk Calculator Predict 30-Day Complications After Cervical Spine Surgery?. <i>Clinical Spine Surgery</i> , 2019, 32, 357-362.	1.3	6
82	Consensus Recommendations on the Prehospital Care of the Injured Athlete With a Suspected Catastrophic Cervical Spine Injury. <i>Clinical Journal of Sport Medicine</i> , 2020, 30, 296-304.	1.8	6
83	A Review of Treatment for Acute and Chronic Pars Fractures in the Lumbar Spine. <i>Current Reviews in Musculoskeletal Medicine</i> , 2022, 15, 259-271.	3.5	6
84	Ovariectomy-Induced Osteoporosis Does Not Impact Fusion Rates in a Recombinant Human Bone Morphogenetic Protein-2â€“Dependent Rat Posterolateral Arthrodesis Model. <i>Global Spine Journal</i> , 2016, 6, 60-68.	2.3	5
85	Rare Complications of Cervical Spine Surgery: Pseudomeningocele. <i>Global Spine Journal</i> , 2017, 7, 109S-114S.	2.3	5
86	Effect of recombinant human bone morphogenetic proteinâ€“2 on a novel lung cancer spine metastasis model in rodents. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1274-1281.	2.3	4
87	Effect of Postoperative Analgesic Exposure to the Cannabinoid Receptor Agonist WIN55 on Osteogenic Differentiation and Spinal Fusion in Rats. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 984-991.	3.0	4
88	Transient Quadriplegia and Cervical Neuropraxia in Elite Athletes. <i>Clinics in Sports Medicine</i> , 2021, 40, 463-470.	1.8	3
89	Reply to â€œLetter to the Editorâ€• <i>Spine</i> , 2021, Publish Ahead of Print, E1227-E1228.	2.0	3
90	Advanced techniques in cervical spine surgery. <i>Instructional Course Lectures</i> , 2012, 61, 441-50.	0.2	3

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91	The use of a novel tablet application to quantify dysfunction in cervical spondylotic myelopathy patients. <i>Spine Journal</i> , 2019, 19, 157-162.	1.3	2
92	The Effect of an Arthroscopic Orthopaedic Procedure on a Professional Tennis Player's Career. <i>Cureus</i> , 2019, 11, e5654.	0.5	2
93	Advanced techniques in cervical spine surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 780-8.	3.0	2
94	The Drivers of Persistent Opioid Use and Its Impact on Healthcare Utilization After Elective Spine Surgery. <i>Global Spine Journal</i> , 2024, 14, 370-379.	2.3	2
95	The effect of rhBMP-2 in a novel, non-instrumented extremity nonunion model. <i>Journal of Orthopaedic Science</i> , 2016, 21, 79-85.	1.1	1
96	Technologies to Enhance Spinal Fusion: Bench to Bedside. <i>HSS Journal</i> , 2020, 16, 108-112.	1.7	1
97	The effect of local steroid application on bony fusion in a rat posterolateral spinal arthrodesis model. <i>JOR Spine</i> , 2021, 4, e1177.	3.2	1
98	Novel Approaches Guiding the Future of Spinal Biologics for Bone Regeneration. <i>Current Reviews in Musculoskeletal Medicine</i> , 2022, 15, 205-212.	3.5	1
99	Characterizing the host response to rhPDGF β in a rat spinal arthrodesis model. <i>JOR Spine</i> , 2021, 4, e1173.	3.2	0
100	Comparison of Lumbar Fusion With and Without Interbody Fusion for Lumbar Stenosis Using Patient-Reported Outcomes Measurement Information System (PROMIS) Computer Adaptive Testing (CAT). <i>Cureus</i> , 2022, 14, e23467.	0.5	0