

Jacob M. Buchowski

List of Publications by Year in descending order

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131
papers

6,702
citations

71102

41
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docs citations

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times ranked

4408
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#	ARTICLE	IF	CITATIONS
1	Scoliosis Research Society's Schwab Adult Spinal Deformity Classification. <i>Spine</i> , 2012, 37, 1077-1082.	2.0	976
2	Adjacent Segment Disease Following Lumbar/Thoracolumbar Fusion With Pedicle Screw Instrumentation. <i>Spine</i> , 2007, 32, 2253-2257.	2.0	379
3	Cauda Equina Syndrome Secondary to Lumbar Disc Herniation. <i>Spine</i> , 2000, 25, 1515-1522.	2.0	364
4	Role of Pelvic Incidence, Thoracic Kyphosis, and Patient Factors on Sagittal Plane Correction Following Pedicle Subtraction Osteotomy. <i>Spine</i> , 2009, 34, 785-791.	2.0	270
5	Neurologic Complications of Lumbar Pedicle Subtraction Osteotomy. <i>Spine</i> , 2007, 32, 2245-2252.	2.0	240
6	Major Complications and Comparison Between 3-Column Osteotomy Techniques in 105 Consecutive Spinal Deformity Procedures. <i>Spine</i> , 2012, 37, 1198-1210.	2.0	231
7	Operative Treatment of Adolescent Idiopathic Scoliosis With Posterior Pedicle Screw-Only Constructs. <i>Spine</i> , 2008, 33, 1598-1604.	2.0	173
8	Functional and radiographic outcome of sacroiliac arthrodesis for the disorders of the sacroiliac joint. <i>Spine Journal</i> , 2005, 5, 520-528.	1.3	167
9	Risk Factors and Outcomes for Catastrophic Failures at the Top of Long Pedicle Screw Constructs. <i>Spine</i> , 2009, 34, 2134-2139.	2.0	126
10	Risk of vertebral artery injury: comparison between C1-C2 transarticular and C2 pedicle screws. <i>Spine Journal</i> , 2013, 13, 775-785.	1.3	111
11	Thoracolumbar Deformity Arthrodesis Stopping at L5. <i>Spine</i> , 2007, 32, 2771-2776.	2.0	110
12	Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 338-352.	3.0	110
13	Cervical Disc Arthroplasty Compared with Arthrodesis for the Treatment of Myelopathy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 2354-2364.	3.0	104
14	Prediction of Quality of Life and Survival After Surgery for Symptomatic Spinal Metastases. <i>Neurosurgery</i> , 2015, 77, 698-708.	1.1	104
15	Dural ectasia in the Marfan syndrome: MR and CT findings and criteria. <i>Genetics in Medicine</i> , 2000, 2, 173-179.	2.4	95
16	High-Dose rhBMP-2 for Adults: Major and Minor Complications. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013, 95, 1546-1553.	3.0	93
17	The Metastatic Spine Disease Multidisciplinary Working Group Algorithms. <i>Oncologist</i> , 2015, 20, 1205-1215.	3.7	91
18	Pedicle Screw Instrumentation for Adult Idiopathic Scoliosis. <i>Spine</i> , 2009, 34, 852-857.	2.0	83

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19	Dynamic Radiographic Criteria for Detecting Pseudarthrosis Following Anterior Cervical Arthrodesis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 557-563.	3.0	83
20	Anterior Cervical Fusion Assessment. <i>Spine</i> , 2008, 33, 1185-1191.	2.0	82
21	Spine and Axial Skeleton Injuries in the National Football League. <i>American Journal of Sports Medicine</i> , 2012, 40, 1755-1761.	4.2	82
22	Significant Change or Loss of Intraoperative Monitoring Data. <i>Spine</i> , 2013, 38, E101-E108.	2.0	81
23	Surgical management of posttraumatic thoracolumbar kyphosis. <i>Spine Journal</i> , 2008, 8, 666-677.	1.3	79
24	Undetected Vertebral Artery Groove and Foramen Violations During C1 Lateral Mass and C2 Pedicle Screw Placement. <i>Spine</i> , 2008, 33, E942-E949.	2.0	73
25	Preoperative Vitamin D Status of Adults Undergoing Surgical Spinal Fusion. <i>Spine</i> , 2013, 38, 507-515.	2.0	73
26	Cauda Equina Syndrome in Ankylosing Spondylitis (The CES-AS Syndrome): Meta-Analysis of Outcomes After Medical and Surgical Treatments. <i>Journal of Spinal Disorders</i> , 2001, 14, 427-433.	1.1	70
27	Functional Outcome and Radiographic Correction After Spinal Osteotomy. <i>Spine</i> , 2002, 27, 1303-1311.	2.0	70
28	Long Adult Spinal Deformity Fusion to the Sacrum Using rhBMP-2 Versus Autogenous Iliac Crest Bone Graft. <i>Spine</i> , 2009, 34, 2205-2212.	2.0	67
29	Rod fracture in adult spinal deformity surgery fused to the sacrum: prevalence, risk factors, and impact on health-related quality of life in 526 patients. <i>Spine Journal</i> , 2018, 18, 1612-1624.	1.3	66
30	Perioperative Complications of Spinal Metastases Surgery. <i>Clinical Spine Surgery</i> , 2017, 30, 4-13.	1.3	64
31	Prognostic factors in patients with spinal metastasis: a systematic review and meta-analysis. <i>Spine Journal</i> , 2017, 17, 689-708.	1.3	58
32	Mechanosensitive transcriptional coactivators MRTFα and YAP/TAZ regulate nucleus pulposus cell phenotype through cell shape. <i>FASEB Journal</i> , 2019, 33, 14022-14035.	0.5	56
33	Spinal Fusion After Revision Surgery for Pseudarthrosis in Adult Scoliosis. <i>Spine</i> , 2006, 31, E314-E319.	2.0	55
34	Management of Metastatic Cervical Spine Tumors. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2015, 23, 38-46.	2.5	55
35	RhBMP-2 Is Superior to Iliac Crest Bone Graft for Long Fusions to the Sacrum in Adult Spinal Deformity. <i>Spine</i> , 2013, 38, 1209-1215.	2.0	53
36	Metastatic Spine Tumor Epidemiology: Comparison of Trends in Surgery Across Two Decades and Three Continents. <i>World Neurosurgery</i> , 2018, 114, e809-e817.	1.3	50

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37	Management of spinal giant cell tumors. Spine Journal, 2016, 16, 259-269.	1.3	49
38	Effect of Fibrin Sealant on Drain Output and Duration of Hospitalization After Multilevel Anterior Cervical Fusion. Spine, 2008, 33, E543-E547.	2.0	48
39	The Feasibility of Microscope-Assisted "Free-Hand" C1 Lateral Mass Screw Insertion Without Fluoroscopy. Spine, 2008, 33, 1042-1049.	2.0	47
40	Failure of Intraoperative Monitoring to Detect Postoperative Neurologic Deficits. Spine, 2016, 41, 1387-1393.	2.0	45
41	Disc Herniations in the National Football League. Spine, 2013, 38, 1934-1938.	2.0	44
42	Subaxial cervical spine trauma. Current Reviews in Musculoskeletal Medicine, 2016, 9, 496-504.	3.5	44
43	Pulmonary Cement Embolization After Vertebroplasty Requiring Pulmonary Wedge Resection. Clinical Orthopaedics and Related Research, 2014, 472, 1652-1657.	1.5	42
44	Septic arthritis of the hip following cortisone injection. Clinical Imaging, 2003, 27, 225-228.	1.5	40
45	Cervical Disc Arthroplasty Compared with Arthrodesis for the Treatment of Myelopathy. Journal of Bone and Joint Surgery - Series A, 2009, 91, 223-232.	3.0	39
46	Treatment, complications, and outcomes of metastatic disease of the spine: from Patchell to PROMIS. Annals of Translational Medicine, 2019, 7, 216-216.	1.7	39
47	Pseudarthrosis in Multilevel Anterior Cervical Fusion With rhBMP-2 and Allograft. Spine, 2010, 35, 747-753.	2.0	38
48	Systematic review and meta-analysis of effectiveness of preoperative embolization in surgery for metastatic spine disease. Journal of NeuroInterventional Surgery, 2018, 10, 596-601.	3.3	38
49	Revision Surgery Following Cervical Laminoplasty. Spine, 2009, 34, 2760-2768.	2.0	36
50	Epidural Spinal Cord Compression With Neurologic Deficit Associated With Intrapedicular Application of Hemostatic Gelatin Matrix During Pedicle Screw Insertion. Spine, 2009, 34, E473-E477.	2.0	36
51	Prediction Accuracy of Common Prognostic Scoring Systems for Metastatic Spine Disease. Spine, 2018, 43, 1678-1684.	2.0	35
52	Value of Diagnostic Lumbar Selective Nerve Root Block: A Prospective Controlled Study. American Journal of Neuroradiology, 2008, 29, 1017-1023.	2.4	33
53	Postoperative occipital neuralgia with and without C2 nerve root transection during atlantoaxial screw fixation: a post-hoc comparative outcome study of prospectively collected data. Spine Journal, 2013, 13, 786-795.	1.3	33
54	Temporary Internal Distraction as an Aid to Correction of Severe Scoliosis. Journal of Bone and Joint Surgery - Series A, 2006, 88, 2035.	3.0	31

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55	An Update on Civilian Spinal Gunshot Wounds. <i>Spine</i> , 2015, 40, 450-461.	2.0	31
56	Current Evidence Regarding the Etiology, Prevalence, Natural History, and Prognosis of Pediatric Lumbar Spondylolysis: A Report from the Scoliosis Research Society Evidence-Based Medicine Committee. <i>Spine Deformity</i> , 2015, 3, 12-29.	1.5	31
57	Dural ectasia and conventional radiography in the Marfan lumbosacral spine. <i>Skeletal Radiology</i> , 2001, 30, 338-345.	2.0	29
58	Control of adhesive ligand density for modulation of nucleus pulposus cell phenotype. <i>Biomaterials</i> , 2020, 250, 120057.	11.4	29
59	Baseline Patient-Reported Outcomes Correlate Weakly With Radiographic Parameters. <i>Spine</i> , 2016, 41, 1701-1708.	2.0	28
60	Freehand technique for C2 pedicle and pars screw placement: is it safe?. <i>Spine Journal</i> , 2018, 18, 1197-1203.	1.3	26
61	A minimally invasive technique for L5-S1 intraforaminal disc herniations: microdiscectomy with a tubular retractor via a contralateral approach. <i>Journal of Neurosurgery: Spine</i> , 2008, 8, 193-198.	1.7	25
62	Risk of internal carotid artery injury during C1 screw placement: analysis of 160 computed tomography angiograms. <i>Spine Journal</i> , 2011, 11, 316-323.	1.3	25
63	Aprotinin May Decrease Blood Loss in Complex Adult Spinal Deformity Surgery, But It May Also Increase the Risk of Acute Renal Failure. <i>Spine</i> , 2007, 32, 2265-2271.	2.0	24
64	Early failure associated with the use of Hylamer-M spacers in three primary AMK total knee arthroplasties. <i>Journal of Arthroplasty</i> , 2001, 16, 136-139.	3.1	23
65	Construct Type and Risk Factors for Pseudarthrosis at the Cervicothoracic Junction. <i>Spine</i> , 2015, 40, E613-E617.	2.0	23
66	Surgical Technique: Iliosacral Reconstruction With Minimal Spinal Instrumentation. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 947-955.	1.5	22
67	Integrin and syndecan binding peptide-conjugated alginate hydrogel for modulation of nucleus pulposus cell phenotype. <i>Biomaterials</i> , 2021, 277, 121113.	11.4	22
68	Lateral fluoroscopic guide to prevent occipitocervical and atlantoaxial joint violation during C1 lateral mass screw placement. <i>Spine Journal</i> , 2009, 9, 574-579.	1.3	21
69	Dropped Head Syndrome After Multilevel Cervical Radiofrequency Ablation. <i>Journal of Spinal Disorders and Techniques</i> , 2013, 26, 444-448.	1.9	21
70	Neurologic Recovery after Anterior Cervical Discectomy and Fusion. <i>Global Spine Journal</i> , 2014, 4, 041-046.	2.3	21
71	Bioactive in situ crosslinkable polymer-peptide hydrogel for cell delivery to the intervertebral disc in a rat model. <i>Acta Biomaterialia</i> , 2021, 131, 117-127.	8.3	21
72	Plain radiography of the lumbosacral spine in Marfan syndrome. <i>Spine Journal</i> , 2002, 2, 327-333.	1.3	20

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73	Resection and Reconstruction of a Massive Femoral Hemophilic Pseudotumor. <i>Clinical Orthopaedics and Related Research</i> , 2005, 430, 237-242.	1.5	20
74	Comparison of TLIF With rhBMP-2 Versus No TLIF and Higher Posterolateral rhBMP-2 Dose At L5-S1 for Long Fusions to the Sacrum With Sacropelvic Fixation in Patients With Primary Adult Deformity. <i>Spine</i> , 2013, 38, 2264-2271.	2.0	20
75	Surgical Approach to the Cervicothoracic Junction. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, 264-267.	1.9	19
76	Current Evidence Regarding Diagnostic Imaging Methods for Pediatric Lumbar Spondylolysis: A Report From the Scoliosis Research Society Evidence-Based Medicine Committee. <i>Spine Deformity</i> , 2017, 5, 97-101.	1.5	19
77	Temporary Internal Distraction as an Aid to Correction of Severe Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 297-309.	3.0	18
78	Patient Factors That Influence Decision Making. <i>Spine</i> , 2016, 41, E349-E358.	2.0	18
79	Operative versus nonoperative treatment for adult symptomatic lumbar scoliosis at 5-year follow-up: durability of outcomes and impact of treatment-related serious adverse events. <i>Journal of Neurosurgery: Spine</i> , 2021, 35, 67-79.	1.7	16
80	Extension of Prior Idiopathic Scoliosis Fusions to the Sacrum. <i>Spine</i> , 2010, 35, 1843-1848.	2.0	15
81	Video-assisted thoracoscopic surgery with posterior spinal reconstruction for the resection of upper lobe lung tumors involving the spine. <i>Spine Journal</i> , 2013, 13, 68-76.	1.3	15
82	Posterior Cervical Fusion With Recombinant Human Bone Morphogenetic Protein-2. <i>Clinical Spine Surgery</i> , 2016, 29, E276-E281.	1.3	15
83	Preoperative Fiducial Marker Placement in the Thoracic Spine. <i>Spine</i> , 2017, 42, E624-E628.	2.0	15
84	Effect of Serious Adverse Events on Health-related Quality of Life Measures Following Surgery for Adult Symptomatic Lumbar Scoliosis. <i>Spine</i> , 2019, 44, 1211-1219.	2.0	15
85	Central Cord Syndrome After Total Hip Arthroplasty. <i>Spine</i> , 2005, 30, E103-E105.	2.0	14
86	Adult Scoliosis: Etiology and Classification. <i>Seminars in Spine Surgery</i> , 2009, 21, 2-6.	0.2	14
87	How good are the outcomes of instrumented debulking operations for symptomatic spinal metastases and how long do they stand? A subgroup analysis in the global spine tumor study group database. <i>Acta Neurochirurgica</i> , 2020, 162, 943-950.	1.7	14
88	Comparison of rod fracture rates in long spinal deformity constructs after transforaminal versus anterior lumbar interbody fusions: a single-institution analysis. <i>Journal of Neurosurgery: Spine</i> , 2020, 32, 42-49.	1.7	14
89	Screw Back-Out Following "Open-Door" Cervical Laminoplasty: A Review of 165 Plates. <i>Asian Spine Journal</i> , 2015, 9, 849.	2.0	14
90	Adult Degenerative Scoliosis Surgical Outcomes: A Systematic Review and Meta-analysis. <i>Spine Deformity</i> , 2013, 1, 248-258.	1.5	13

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91	Current Evidence Regarding the Surgical and Nonsurgical Treatment of Pediatric Lumbar Spondylolysis: A Report from the Scoliosis Research Society Evidence-Based Medicine Committee. <i>Spine Deformity</i> , 2015, 3, 30-44.	1.5	13
92	Ceramic Fracture Following Cervical Disc Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, e132.	3.0	12
93	Utilization trends of pedicle subtraction osteotomies compared to posterior spinal fusion for deformity: a national database analysis between 2008-2011. <i>Scoliosis and Spinal Disorders</i> , 2016, 11, 25.	2.3	12
94	Back Pain and Outcomes of Pregnancy After Instrumented Spinal Fusion for Adolescent Idiopathic Scoliosis. <i>World Neurosurgery</i> , 2019, 124, e404-e410.	1.3	12
95	Optimal Trajectory for the Occipital Condylar Screw. <i>Spine</i> , 2012, 37, 385-392.	2.0	11
96	The Prevalence of Abnormal Preoperative Neurological Examination in Scheuermann Kyphosis. <i>Spine</i> , 2014, 39, 1771-1776.	2.0	11
97	The lumbar interpediculate distance is widened in adults with the Marfan syndrome: Data from 32 cases. <i>Acta Orthopaedica</i> , 2001, 72, 67-71.	1.4	10
98	Optimal Trajectory for the Atlantooccipital Transarticular Screw. <i>Spine</i> , 2010, 35, 1562-1570.	2.0	10
99	Outcomes and cost-minimization analysis of cement spacers versus expandable cages for posterior-only reconstruction of metastatic spine corpectomies. <i>Annals of Translational Medicine</i> , 2019, 7, 212-212.	1.7	10
100	Epidural hematoma after immobilization of a "hangman's" fracture: case report and review of the literature. <i>Spine Journal</i> , 2005, 5, 332-335.	1.3	9
101	Hypovitaminosis D and Cervical Disk Herniation among Adults Undergoing Spine Surgery. <i>Global Spine Journal</i> , 2013, 3, 231-236.	2.3	9
102	Prior Cholecystectomy as a Predictor of Preoperative Vitamin D Deficiency in Adults Undergoing Spine Surgery. <i>Archives of Surgery</i> , 2012, 147, 577-8.	2.2	8
103	Cadaveric Nerve Allograft Transplantation in the Treatment of Persistent Thoracic Neuralgia. <i>Annals of Thoracic Surgery</i> , 2015, 99, 1414-1417.	1.3	8
104	Verteoporfin treatment controls morphology, phenotype, and global gene expression for cells of the human nucleus pulposus. <i>JOR Spine</i> , 2020, 3, e1111.	3.2	8
105	Development of a library of laminin-mimetic peptide hydrogels for control of nucleus pulposus cell behaviors. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142110212.	5.5	8
106	Improvements in Neck Pain and Disability Following C1-C2 Posterior Cervical Instrumentation and Fusion for Atlanto-Axial Osteoarthritis. <i>World Neurosurgery</i> , 2020, 139, e496-e500.	1.3	7
107	Management of Posttraumatic Kyphosis After Thoracolumbar Injuries. <i>Seminars in Spine Surgery</i> , 2010, 22, 92-102.	0.2	6
108	Adverse Events of Cervical Arthroplasty. <i>Techniques in Orthopaedics</i> , 2010, 25, 138-144.	0.2	6

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109	Modern Techniques in the Treatment of Patients with Metastatic Spine Disease. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 943-951.	3.0	6
110	The Incidence of Bifid C7 Spinous Processes. <i>Global Spine Journal</i> , 2012, 2, 099-103.	2.3	5
111	Impact of Pregnancy on Loss of Deformity Correction After Pedicle Screw Instrumentation for Adolescent Idiopathic Scoliosis. <i>World Neurosurgery</i> , 2020, 139, e121-e126.	1.3	4
112	Frequency and Acceptability of Adverse Events After Anterior Cervical Discectomy and Fusion. <i>Clinical Spine Surgery</i> , 2018, 31, E270-E277.	1.3	3
113	Evaluation of registration methods used in frameless stereotactic surgery for the lumbar and cervical regions of the spine. <i>American Journal of Orthopedics</i> , 2003, 32, 90-7; discussion 97.	0.7	3
114	Odontoid fracture in a 50-year-old patient presenting 40 years after cervical spine trauma. <i>Orthopedics</i> , 2003, 26, 1061-3.	1.1	3
115	In reference to <i>acute airway obstruction in cervical spinal procedures with bone morphogenetic proteins</i>. <i>Laryngoscope</i> , 2011, 121, 2501-2501.	2.0	2
116	Neck Pain in a 27-year-old Man. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 1763-1768.	1.5	2
117	What's New in Spine Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 1043-1049.	3.0	2
118	Bone Morphogenetic Protein Use in Anterior Cervical Spine Surgery: A Review of Current Literature Concerning Indications, Safety, and Efficacy. <i>Neurosurgery Quarterly</i> , 2009, 19, 283-287.	0.1	1
119	Post-traumatic deformity. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 109, 369-384.	1.8	1
120	Commentary: Methods of evaluating lumbar and cervical fusion. <i>Spine Journal</i> , 2014, 14, 540-541.	1.3	1
121	Vitamin D: Should we be checking levels before spine fusion?. <i>Seminars in Spine Surgery</i> , 2018, 30, 32-35.	0.2	1
122	Percutaneous Thermal Ablation of Spine Metastasis. , 2018, , 281-291.		1
123	Evaluation of the Metastatic Spine Disease Multidisciplinary Working Group Algorithms as Part of a Multidisciplinary Spine Tumor Conference. <i>Global Spine Journal</i> , 2020, 10, 888-895.	2.3	1
124	What's New in Spine Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 1034-1041.	3.0	1
125	Postoperative Severe Headache Following Cervical Posterior Surgical Fixation from C2 Distally. <i>Asian Spine Journal</i> , 2016, 10, 728.	2.0	1
126	Degenerative Scoliosis: Surgical Treatment. , 2016, , 695-701.		0

#	ARTICLE	IF	CITATIONS
127	Authors' Reply Re: "CT evaluation of occipitocervical joint violation by C1 lateral mass screw" by Jun-Song Yang, M.D; Hao Chen; Liang Yan, M.D; Peng Liu, M.D; Tuan-Jiang Liu, M.D; Da-Geng Huang, M.D; Ding-Jun Hao, M.D.. Spine Journal, 2019, 19, 1903.	1.3	0
128	What's New in Spine Surgery. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1047-1053.	3.0	0
129	Primary Spinal Infections. , 2014, , 433-451.		0
130	Attitudes and trends in the use of radiolucent spinal implants: A survey of the North American Spine Society section of spinal oncology. North American Spine Society Journal (NASSJ), 2022, 10, 100105.	0.5	0
131	Positive security screening episodes of patients with spinal implants are influenced by detector type and not implant material. Spine Journal, 2021, , .	1.3	0