

A Biomechanical Study of Intrapeduncular Screw Fixati

Clinical Orthopaedics and Related Research

&NA; 99???112

DOI: 10.1097/00003086-198602000-00012

Citation Report

#	ARTICLE	IF	CITATIONS
1	Morphometric analysis of the thoracolumbar and lumbar pedicles, anatomic-radiologic study. <i>Surgical and Radiologic Anatomy</i> , 1988, 10, 317-322.	0.1	48
2	Transpedicular screw fixation. <i>Journal of Orthopaedic Research</i> , 1989, 7, 107-114.	2.3	82
3	Morphometric analysis of vertebrae and intervertebral discs as a basis of disc replacement. <i>American Journal of Anatomy</i> , 1990, 189, 69-76.	1.0	41
4	Reconstruction of acute lumbar injury. <i>Operative Techniques in Orthopaedics</i> , 1991, 1, 106-122.	0.1	1
5	Screw-augmented fixation of acetabular components. <i>Journal of Arthroplasty</i> , 1991, 6, 301-305.	3.1	21
6	Instrumentation of the lumbar spine for degenerative disorders. <i>Operative Techniques in Orthopaedics</i> , 1991, 1, 91-96.	0.1	0
7	Instability of the Lumbar Spine. <i>Neurosurgery Clinics of North America</i> , 1991, 2, 785-790.	1.7	58
8	The Role of Spine Fusion. <i>Neurosurgery Clinics of North America</i> , 1991, 2, 933-954.	1.7	24
9	Anatomic and experimental basis for the insertion of a screw at the first sacral vertebra. <i>Surgical and Radiologic Anatomy</i> , 1991, 13, 133-137.	1.2	47
10	Transpedicular screw-rod fixation of the lumbar spine: operative technique and outcome in 104 cases. <i>Journal of Neurosurgery</i> , 1992, 77, 860-870.	1.6	209
11	A New Instrumentation System for the Reduction and Posterior Stabilization of Unstable Thoracolumbar Fractures. <i>Neurosurgery</i> , 1992, 30, 208-217.	1.1	7
12	Pull-out strength of sacral implants using Cotrel-Dubousset fixation devices. <i>European Spine Journal</i> , 1992, 1, 170-177.	2.2	1
13	A Case Report of Paraplegia due to Thoracic Ossification of the Yellow Ligament and Thoracic Vertebral Compression Fracture. <i>Orthopedics & Traumatology</i> , 1993, 42, 9-11.	0.1	0
14	Effect of Screw Diameter, Insertion Technique, and Bone Cement Augmentation of Pedicular Screw Fixation Strength. <i>Clinical Orthopaedics and Related Research</i> , 1993, &NA;, 278-287.	1.5	171
15	Design and Development of a Biomechanical Apparatus to Test the Integrity of the Luque Orthopaedic Internal Bone-Plate Fixation System. <i>Journal of Medical Engineering and Technology</i> , 1993, 17, 141-146.	1.4	2
16	Pull-out strength of screws from polymethylmethacrylate cement. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1994, 76-B, 320-323.	3.4	27
17	Sacral fixation using iliac instrumentation and a variable-angle screw device. <i>Journal of Neurosurgery</i> , 1994, 81, 313-316.	1.6	21
18	Vertebral pedicle diameter as determined by computed tomography: inaccuracies observed by direct measurement of cadaveric lumbar spine. <i>Skeletal Radiology</i> , 1994, 23, 551-3.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Real minimal diameter of the lower thoracic and lumbar vertebral pedicles. <i>Clinical Anatomy</i> , 1994, 7, 271-274.	2.7	4
20	Biomechanical Study of Canine Spinal Fracture Fixation Using Pins or Bone Screws With Polymethylmethacrylate. <i>Veterinary Surgery</i> , 1994, 23, 322-329.	1.0	32
22	New means in spinal pedicle hook fixation. <i>European Spine Journal</i> , 1995, 4, 114-122.	2.2	17
23	Transpedicular fixation of the lumbar and lumbosacral spine with screws. Application of the Diapason System. <i>Spinal Cord</i> , 1995, 33, 216-218.	1.9	4
24	Biomechanical analysis of bone mineral density, insertion technique, screw torque, and holding strength of anterior cervical plate screws. <i>Journal of Neurosurgery</i> , 1995, 83, 324-329.	1.6	109
25	Posterolateral decompression and stabilization of thoracolumbar injuries using diapason instrumentation. <i>Acta Neurochirurgica</i> , 1996, 138, 314-321.	1.7	3
26	Clinical importance of the minimal cancellous diameter of lower thoracic and lumbar vertebral pedicles. <i>Clinical Anatomy</i> , 1996, 9, 151-154.	2.7	3
27	Biomechanics of Cannulated and Noncannulated Screws. , 1996, , 15-40.		6
28	Transpedicular screw fixation of the lumbar spine: review and technique. <i>Operative Techniques in Orthopaedics</i> , 1997, 7, 71-78.	0.1	4
29	Recent Advances in Intraoperative Neuromonitoring of Spinal Cord Function: Pedicle Screw Stimulation Techniques. <i>American Journal of Electroneurodiagnostic Technology</i> , 1997, 37, 93-126.	0.2	11
30	Thoracolumbar Spinal Anatomy. <i>Neurosurgery Clinics of North America</i> , 1997, 8, 443-453.	1.7	10
31	Lumbosacral arthrodesis using pedicular screws and ringed rods. <i>European Spine Journal</i> , 1997, 6, 233-238.	2.2	6
32	Materials and design of spinal implants?A review. , 1997, 38, 267-288.		90
33	Comparison between two different concepts of lumbar posterior osteosynthesis implants A finite-element analysis. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 1998, 8, 27-36.	1.4	13
34	The stability of bone screws in the os sacrum. <i>European Spine Journal</i> , 1998, 7, 313-320.	2.2	21
35	Computer-Assisted Spine Surgery. <i>Computer Aided Surgery</i> , 1998, 3, 297-305.	1.8	88
36	The 'MW' sacropelvic construct: an enhanced fixation of the lumbosacral junction in neuromuscular pelvic obliquity. <i>European Spine Journal</i> , 1999, 8, 229-231.	2.2	42
37	Loosening of sacral screw fixation underin vitro fatigue loading. <i>Journal of Orthopaedic Research</i> , 2000, 18, 808-814.	2.3	43

#	ARTICLE	IF	CITATIONS
38	Augmentation of (pedicle) screws with calcium apatite cement in patients with severe progressive osteoporotic spinal deformities: an innovative technique. <i>European Spine Journal</i> , 2000, 9, 528-533.	2.2	84
39	Titanium-alloy enhances bone-pedicle screw fixation: mechanical and histomorphometrical results of titanium-alloy versus stainless steel. <i>European Spine Journal</i> , 2000, 9, 97-103.	2.2	112
40	Image-guided spinal surgery: Technology, operative technique, and clinical practice. <i>Operative Techniques in Orthopaedics</i> , 2000, 10, 56-63.	0.1	4
41	Characteristics of pullout failure in conical and cylindrical pedicle screws after full insertion and back-out. <i>Spine Journal</i> , 2001, 1, 408-414.	1.3	153
42	Lumbosacral fixation using expandable pedicle screws. <i>Spine Journal</i> , 2001, 1, 109-114.	1.3	106
43	Lumbar pedicle: surgical anatomic evaluation and relationships. <i>European Spine Journal</i> , 2001, 10, 10-15.	2.2	57
44	Hydroxyapatite coating enhances fixation of loaded pedicle screws: a mechanical in vivo study in sheep. <i>European Spine Journal</i> , 2001, 10, 334-339.	2.2	65
46	An expandable anchor for fixation in osteoporotic bone. <i>Journal of Orthopaedic Research</i> , 2001, 19, 545-547.	2.3	21
47	A new modular testing system for biomechanical evaluation of tibial intramedullary fixation devices. <i>Injury</i> , 2001, 32, 708-712.	1.7	15
48	Biomechanical Evaluation of a Double-Threaded Pedicle Screw in Elderly Vertebrae. <i>Journal of Spinal Disorders and Techniques</i> , 2002, 15, 64-68.	1.9	39
49	Axial and Tangential Fixation Strength of Pedicle Screws Versus Hooks in the Thoracic Spine in Relation to Bone Mineral Density. <i>Spine</i> , 2002, 27, 937-942.	2.0	90
50	A study of the mechanical stability of scoliosis constructs using variable numbers of sublaminar wires. <i>European Spine Journal</i> , 2002, 11, 321-326.	2.2	6
51	Enhancement of pedicle screw stability using calcium phosphate cement in osteoporotic vertebrae: in vivo biomechanical study. <i>Journal of Orthopaedic Science</i> , 2003, 8, 408-414.	1.1	53
52	Measurements of the lumbar pedicles in the Eastern Anatolian population. <i>Surgical and Radiologic Anatomy</i> , 2003, 25, 120-126.	1.2	21
53	Spinal somatosensory evoked potential evaluation of acute nerve-root injury associated with pedicle-screw placement procedures: An experimental study. <i>Journal of Orthopaedic Research</i> , 2003, 21, 365-372.	2.3	5
54	A biomechanical study of the cortex-anchorage vertebral screw. <i>Clinical Biomechanics</i> , 2003, 18, S25-S32.	1.2	11
55	S1 Pediculoiliac Screw Fixation in Instabilities of the Sacroiliac Complex: Biomechanical Study and Report of Two Cases. <i>Journal of Orthopaedic Trauma</i> , 2003, 17, 262-270.	1.4	38
56	Pedicle Morphology of the Lower Thoracic, Lumbar, and S1 Vertebrae: An Indian Perspective. <i>Spine</i> , 2003, 28, 744-749.	2.0	29

#	ARTICLE	IF	CITATIONS
57	The significance of radiolucent zones surrounding pedicle screws. Journal of Bone and Joint Surgery: British Volume, 2004, 86-B, 457-461.	3.4	113
58	Augmentation of pedicle screw fixation with calcium phosphate cement. Journal Wuhan University of Technology, Materials Science Edition, 2004, 19, 20-23.	1.0	1
59	Investigation of fixation screw pull-out strength on human spine. Journal of Biomechanics, 2004, 37, 479-485.	2.1	74
60	Biomechanical study of pedicle screw fixation in severely osteoporotic bone*1. Spine Journal, 2004, 4, 402-408.	1.3	255
61	Biomechanical Study of Lumbar Pedicle Screws in a Corpectomy Model Assessing Significance of Screw Height. Journal of Spinal Disorders and Techniques, 2004, 17, 272-276.	1.9	10
62	Determination of the Length of Anteromedial Screw Trajectory by Measuring Interforaminal Distance in the First Sacral Vertebra. Spine, 2004, 29, 1608-1611.	2.0	13
63	Biomechanical Analysis of Anterior Poly-Methyl-Methacrylate Reconstruction Following Total Spondylectomy for Metastatic Disease. Spine, 2004, 29, 2096-2012.	2.0	31
64	Dynamic Interspinous Process Technology. Spine, 2005, 30, S73-S78.	2.0	109
65	Apical Sublaminar Wires Versus Pedicle Screws—Which Provides Better Results for Surgical Correction of Adolescent Idiopathic Scoliosis?. Spine, 2005, 30, 2104-2112.	2.0	126
66	Biomechanical Considerations of Spinal Instrumentation in the Aging Spine. Seminars in Spine Surgery, 2005, 17, 215-222.	0.2	0
67	Biocompatibility and functionality of the degradable polymer alkylene bis(dilactoyl)-methacrylate for screw augmentation in vivo. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 128-136.	3.4	13
68	Efficacy of novel-concept pedicle screw fixation augmented with calcium phosphate cement in the osteoporotic spine. Journal of Orthopaedic Science, 2005, 10, 56-61.	1.1	58
69	Surgical Treatment for Lumbar Spinal Stenosis with Fracture in Multiple Osteoporotic Compression Fractures. Journal of Korean Society of Spine Surgery, 2005, 12, 75.	0.3	0
70	Thoracic Pedicle Screw Insertion in Scoliosis Using Posteroanterior C-arm rotation Method. Journal of Korean Society of Spine Surgery, 2005, 12, 123.	0.3	0
71	Single-stage Transpedicular Decompression and Posterior Instrumentation in Treatment of Thoracic and Thoracolumbar Spinal Tuberculosis. Journal of Spinal Disorders and Techniques, 2006, 19, 595-602.	1.9	121
72	Influence of Screw Positioning in a New Anterior Spine Fixator on Implant Loosening in Osteoporotic Vertebrae. Spine, 2006, 31, 406-413.	2.0	37
73	Augmentation of a Loosened Sacral Pedicle Screw With Percutaneous Polymethylmethacrylate Injection. Journal of Spinal Disorders and Techniques, 2006, 19, 373-375.	1.9	23
74	Discordantly High Spinal Bone Mineral Density Values in Patients With Adult Lumbar Scoliosis. Spine, 2006, 31, 1614-1620.	2.0	103

#	ARTICLE	IF	CITATIONS
75	Stability of Pedicle Screws After Kyphoplasty Augmentation. <i>Journal of Spinal Disorders and Techniques</i> , 2006, 19, 87-91.	1.9	29
76	Biomechanical Comparison of Anatomic Trajectory Pedicle Screw versus Injectable Calcium Sulfate Graft-Augmented Pedicle Screw for Salvage in Cadaveric Thoracic Bone. <i>Journal of Spinal Disorders and Techniques</i> , 2006, 19, 286-291.	1.9	52
77	Mechanical performance of cylindrical and dual core pedicle screws in calf and human vertebrae. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 126, 686-694.	2.4	49
78	Spinal Body Reconstruction in Osteoporosis. <i>European Journal of Trauma and Emergency Surgery</i> , 2006, 32, 238-243.	0.3	1
79	Effects of bone materials on the screw pull-out strength in human spine. <i>Medical Engineering and Physics</i> , 2006, 28, 795-801.	1.7	51
80	Thoracic Pedicle Screw Insertion in Scoliosis Using Posteroanterior C-arm Rotation Method. <i>Journal of Spinal Disorders and Techniques</i> , 2007, 20, 66-71.	1.9	32
81	Cement Augmentation of Vertebral Screws Enhances the Interface Strength Between Interbody Device and Vertebral Body. <i>Spine</i> , 2007, 32, 334-341.	2.0	34
82	Comparative Biomechanical Analysis of an Improved Novel Pedicle Screw With Sheath and Bone Cement. <i>Journal of Spinal Disorders and Techniques</i> , 2007, 20, 462-467.	1.9	26
83	Primary Pedicle Screw Augmentation in Osteoporotic Lumbar Vertebrae. <i>Spine</i> , 2007, 32, 1077-1083.	2.0	267
84	Biomechanical analysis of differing pedicle screw insertion angles. <i>Clinical Biomechanics</i> , 2007, 22, 385-391.	1.2	83
87	Neurovascular risks of sacral screws with bicortical purchase: an anatomical study. <i>European Spine Journal</i> , 2007, 16, 1519-1523.	2.2	45
88	Biomechanical effect of different lumbar interspinous implants on flexibility and intradiscal pressure. <i>European Spine Journal</i> , 2008, 17, 1049-1056.	2.2	190
89	Assessment of different screw augmentation techniques and screw designs in osteoporotic spines. <i>European Spine Journal</i> , 2008, 17, 1462-1469.	2.2	197
90	Accuracy and safety of pedicle screw placement in neuromuscular scoliosis with free-hand technique. <i>European Spine Journal</i> , 2008, 17, 1686-1696.	2.2	98
91	The Use of Calcium Sulfate and Calcium Phosphate Composite Graft to Augment Screw Purchase in Osteoporotic Ankles. <i>Foot and Ankle International</i> , 2008, 29, 593-600.	2.3	25
92	SEGMENTAL SPINAL INSTRUMENTATION IN THE MANAGEMENT OF SCOLIOSIS. <i>Neurosurgery</i> , 2008, 63, A131-A138.	1.1	18
93	Comparing the Fixation of a Novel Hollow Screw Versus a Conventional Solid Screw in Human Sacra Under Cyclic Loading. <i>Spine</i> , 2008, 33, 1870-1875.	2.0	21
94	The Effect of Cement Augmentation and Extension of Posterior Instrumentation on Stabilization and Adjacent Level Effects in the Elderly Spine. <i>Spine</i> , 2008, 33, 2728-2740.	2.0	26

#	ARTICLE	IF	CITATIONS
95	Free-Hand Pedicle Screw Placement During Revision Spinal Surgery. <i>Spine</i> , 2008, 33, 1141-1148.	2.0	58
96	ADULT DEGENERATIVE SCOLIOSIS. <i>Neurosurgery</i> , 2008, 63, A94-A103.	1.1	169
97	ROD CANTILEVER TECHNIQUES. <i>Neurosurgery</i> , 2008, 63, A157-A162.	1.1	15
98	Does the Shape of the L5 Vertebral Body Depend on the Height of CT Slices in the Pedicle?. <i>Spine</i> , 2008, 33, E1-E5.	2.0	6
99	A Central Hookâ€“Rod Construct for Osteotomy Closure. <i>Spine</i> , 2008, 33, 1149-1155.	2.0	21
100	Polymethylmethacrylate Augmentation of Pedicle Screw for Osteoporotic Spinal Surgery. <i>Spine</i> , 2008, 33, E317-E324.	2.0	145
101	Effect of Insertional Temperature on the Pullout Strength of Pedicle Screws Inserted Into Thoracic Vertebrae. <i>Spine</i> , 2008, 33, E667-E672.	2.0	3
102	Thoracic Pedicle Screws. <i>Spine</i> , 2008, 33, 2675-2681.	2.0	25
103	Bone Cement Augmentation of Short Segment Fixation for Unstable Burst Fracture in Severe Osteoporosis. <i>Journal of Korean Neurosurgical Society</i> , 2008, 44, 8.	1.2	23
104	Management of Scoliosis in the Osteoporotic Patient. <i>Seminars in Spine Surgery</i> , 2009, 21, 33-40.	0.2	1
105	Lumbosacral and Spinopelvic Fixation in Spine Surgery. <i>Seminars in Spine Surgery</i> , 2009, 21, 55-61.	0.2	4
106	Posterior spinal fusion using a pedicle nail system with polymethylmethacrylate in a paraplegic patient after vertebral collapse caused by osteoporosis. <i>Spine Journal</i> , 2009, 9, e5-e8.	1.3	13
107	The Effect of Screw Length and Bone Cement Augmentation on the Fixation Strength of Iliac Screws. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 545-550.	1.9	37
108	Cement Augmentation of Pedicle Screw Fixation Using Novel Cannulated Cement Insertion Device. <i>Spine</i> , 2009, 34, E478-E483.	2.0	32
109	The Effect of Dilation of Immature Pedicles on Pullout Strength of the Screws: Part 2. <i>Spine</i> , 2009, 34, 2378-2383.	2.0	9
110	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
111	The Pedicle Screw Fixation With Vertebroplasty Augmentation in the Surgical Treatment of the Severe Osteoporotic Spines. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 444-447.	1.9	85
112	The Effect of Repetitive Pilot-Hole Use on the Insertion Torque and Pullout Strength of Vertebral System Screws. <i>Spine</i> , 2009, 34, 871-876.	2.0	28

#	ARTICLE	IF	CITATIONS
113	Preventing Distal Pullout of Posterior Spine Instrumentation in Thoracic Hyperkyphosis. Journal of Spinal Disorders and Techniques, 2009, 22, 270-277.	1.9	22
114	Effect of the Degree of Osteoporosis on the Biomechanical Anchoring Strength of the Sacral Pedicle Screws. Spine, 2010, 35, E925-E931.	2.0	60
115	Biomechanical Analysis of Derotation of the Thoracic Spine Using Pedicle Screws. Spine, 2010, 35, 1039-1043.	2.0	29
116	Radiographic Evaluation of Monocortical Versus Tricortical Purchase Approaches in Lumbosacral Fixation With Sacral Pedicle Screws. Spine, 2010, 35, E1230-E1237.	2.0	20
117	Revision of Cannulated and Perforated Cement-Augmented Pedicle Screws. Spine, 2010, 35, E932-E939.	2.0	62
118	Advantages of the Paraspinal Muscle Splitting Approach in Comparison With Conventional Midline Approach for S1 Pedicle Screw Placement. Spine, 2010, 35, E452-E457.	2.0	17
119	Transpedicular Fixation in Management of Thoracolumbar Burst Fractures. Spine, 2010, 35, E714-E720.	2.0	47
120	Sacropelvic Fixation. Spine, 2010, 35, 2245-2251.	2.0	205
121	Biomechanical Comparison of 4 Fixation Techniques of Sacral Pedicle Screw in Osteoporotic Condition. Journal of Spinal Disorders and Techniques, 2010, 23, 404-409.	1.9	24
122	Does Wide Posterior Multiple Level Release Improve the Correction of Adolescent Idiopathic Scoliosis Curves?. Journal of Spinal Disorders and Techniques, 2010, 23, e24-e30.	1.9	17
123	The Influence of the Insertion Technique on the Pullout Force of Pedicle Screws. Spine, 2010, 35, E332-E337.	2.0	38
124	Lower Dorsal and Lumbar Pedicle Morphometry in Indian Population. Spine, 2010, 35, E378-E384.	2.0	33
125	Thoracolumbar Burst Fractures: A Systematic Review of Management. Orthopedics, 2010, 33, 422-429.	1.1	75
126	Alendronate treatment improves bone-pedicle screw interface fixation in posterior lateral spine fusion: An experimental study in a porcine model. International Orthopaedics, 2010, 34, 447-451.	1.9	28
130	A parametric study of cylindrical pedicle screw design implications on the pullout performance using an experimentally validated finite-element model. Medical Engineering and Physics, 2010, 32, 145-154.	1.7	57
131	Clinical application of a pedicle nail system with polymethylmethacrylate for osteoporotic vertebral fracture. European Spine Journal, 2010, 19, 1643-1650.	2.2	13
132	The stability of a hip fracture determines the fatigue of an intramedullary nail. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 577-584.	1.8	18
133	The effect of the screw pull-out rate on cortical screw purchase in unreamed and reamed synthetic long bones. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 503-513.	1.8	9

#	ARTICLE	IF	CITATIONS
134	Computed Tomographic Evaluation of Pedicle Dimension and Lumbar Spinal Canal. <i>Neurosurgery Quarterly</i> , 2010, 20, 194-198.	0.1	6
135	Lumbar vertebral canal stenosis: concept of morphometric and radiometric study of the human lumbar vertebral canal. <i>Anatomy</i> , 2010, 4, 51-62.	0.2	6
136	Synthetic Bone Grafting in Foot and Ankle Surgery. <i>Foot and Ankle Clinics</i> , 2010, 15, 559-576.	1.3	19
137	Three-dimensional image-guided placement of S2 alar screws to adjunct or salvage lumbosacral fixation. <i>Spine Journal</i> , 2010, 10, 595-601.	1.3	55
138	Structures at risk from pedicle screws in the proximal thoracic spine: computed tomography evaluation. <i>Spine Journal</i> , 2010, 10, 905-909.	1.3	14
139	Pedicle Screw Fixation in the Aging Spine. , 2011, , 381-383.		0
140	Instrumentation of the osteoporotic spine: biomechanical and clinical considerations. <i>Spine Journal</i> , 2011, 11, 54-63.	1.3	165
141	Transiliac Transsacral Screws for Posterior Pelvic Stabilization. <i>Journal of Orthopaedic Trauma</i> , 2011, 25, 378-384.	1.4	149
142	Biomechanical Evaluation of a Novel Fenestrated Pedicle Screw Augmented With Bone Cement in Osteoporotic Spines. <i>Spine</i> , 2011, 36, E1210-E1214.	2.0	101
143	Optimising implant anchorage (augmentation) during fixation of osteoporotic fractures: Is there a role for bone-graft substitutes?. <i>Injury</i> , 2011, 42, S72-S76.	1.7	18
144	Comparison of radiographic and computed tomographic measurement of pedicle and vertebral body dimensions in Koreans: the ratio of pedicle transverse diameter to vertebral body transverse diameter. <i>European Spine Journal</i> , 2011, 20, 414-421.	2.2	13
145	Polymethylmethacrylate augmentation of the pedicle screw: the cement distribution in the vertebral body. <i>European Spine Journal</i> , 2011, 20, 1281-1288.	2.2	55
146	Minimally invasive percutaneous transpedicular screw fixation: increased accuracy and reduced radiation exposure by means of a novel electromagnetic navigation system. <i>Acta Neurochirurgica</i> , 2011, 153, 589-596.	1.7	58
147	Fenestrated pedicle screws for cement-augmented purchase in patients with bone softening: a review of 21 cases. <i>Journal of Orthopaedics and Traumatology</i> , 2011, 12, 193-199.	2.3	77
148	The insertional torque of a pedicle screw has a positive correlation with bone mineral density in posterior lumbar pedicle screw fixation. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2012, 94-B, 93-97.	3.4	53
149	Surgeon's View of Pedicle Screw Implantation for the Monitoring Neurophysiologist. <i>Journal of Clinical Neurophysiology</i> , 2012, 29, 482-488.	1.7	6
150	Design and biomechanical testing of pedicle screw for osteoporotic incidents. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012, 226, 256-262.	1.8	29
151	Bicortical Versus Unicortical Pedicle Screws in Direct Vertebral Rotation. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, E178-E182.	1.9	10

#	ARTICLE	IF	CITATIONS
152	What is the Best Way to Optimize Thoracic Kyphosis Correction? A Micro-CT and Biomechanical Analysis of Pedicle Morphology and Screw Failure. <i>Spine</i> , 2012, 37, E1171-E1176.	2.0	13
153	Preoperative Templating Before Spinal Fusion Using a Fluoroscopic Multiplanar Imaging System is as Accurate as CT Scan and Uses Substantially Less Radiation. <i>Journal of Pediatric Orthopaedics</i> , 2012, 32, e67-e71.	1.2	6
154	Pedicle Screw Design and Cement Augmentation in Osteoporotic Vertebrae. <i>Spine</i> , 2012, 37, E1628-E1632.	2.0	110
155	Assessment of pedicle screw pullout strength based on various screw designs and bone densitiesâ€”an exÂvivo biomechanical study. <i>Spine Journal</i> , 2012, 12, 164-168.	1.3	111
156	The biomechanical effect of pedicle screw hubbing on pullout resistance in the thoracic spine. <i>Spine Journal</i> , 2012, 12, 417-424.	1.3	49
157	Surgical Treatment of Osteoporotic Thoracolumbar Compressive Fractures with Open Vertebral Cement Augmentation of Expandable Pedicle Screw Fixation: A Biomechanical Study and a 2-Year Follow-up of 20 Patients. <i>Journal of Surgical Research</i> , 2012, 173, 91-98.	1.6	41
158	Surgical management by one-stage posterior transforaminal lumbar debridement, interbody fusion, and posterior instrumentation for lumbo-sacral tuberculosis in the aged. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2012, 132, 1677-1683.	2.4	22
159	Pelvic fixation for neuromuscular scoliosis deformity correction. <i>Current Reviews in Musculoskeletal Medicine</i> , 2012, 5, 91-101.	3.5	60
160	A radiological evaluation of the morphometry and safety of S1, S2 and S2-iliac screws in the Asian population using three dimensional computed tomography scan: an analysis of 180 pelvis. <i>Surgical and Radiologic Anatomy</i> , 2012, 34, 217-227.	1.2	37
161	Biomechanical analysis of different types of pedicle screw augmentation: A cadaveric and synthetic bone sample study of instrumented vertebral specimens. <i>Medical Engineering and Physics</i> , 2013, 35, 1506-1512.	1.7	63
162	Accuracy of percutaneous pedicle screws for thoracic and lumbar spine fractures: a prospective trial. <i>European Spine Journal</i> , 2013, 22, 495-502.	2.2	72
163	Pelvic fixation for adult scoliosis. <i>European Spine Journal</i> , 2013, 22, 265-275.	2.2	120
164	An anatomic study on the placement of the second sacral screw and its clinical applications. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2013, 133, 911-920.	2.4	0
165	Reinforcement of lumbosacral instrumentation using S1â€”pedicle screws combined with S2â€”alar screws. <i>Operative Orthopaedie Und Traumatologie</i> , 2013, 25, 294-314.	2.2	27
166	Cement embolism into the venous system after pedicle screw fixation: case report, literature review, and prevention tips. <i>Orthopedic Reviews</i> , 2013, 5, e24.	1.3	19
167	The Evaluation of Pullout Tests of An Expandable Newly Designed Screw. <i>Kafkas Universitesi Veteriner Fakultesi Dergisi</i> , 2013, , .	0.1	0
168	Postfusion pullout strength comparison of a novel pedicle screw with classical pedicle screws on synthetic foams. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 114-119.	1.8	15
169	Dependence of the pullout behaviour of pedicle screws on the screw-hosting material relative deformability. <i>International Journal of Computer Aided Engineering and Technology</i> , 2013, 5, 343.	0.2	4

#	ARTICLE	IF	CITATIONS
170	Lower Preoperative Hounsfield Unit Measurements Are Associated With Adjacent Segment Fracture After Spinal Fusion. <i>Spine</i> , 2013, 38, 415-418.	2.0	98
171	Computed tomographic study of the optimal safe implantation corridors in feline thoraco-lumbar vertebrae. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2013, 26, 372-378.	0.5	8
172	Lumbosacral Fixation Using the Diagonal S2 Screw for Long Fusion in Degenerative Lumbar Deformity: Technical Note Involving 13 Cases. <i>Clinics in Orthopedic Surgery</i> , 2013, 5, 225.	2.2	5
173	Proximal Junctional Problems in Surgical Treatment of Lumbar Degenerative Sagittal Imbalance Patients and Relevant Risk Factors. <i>Journal of Korean Society of Spine Surgery</i> , 2013, 20, 156.	0.0	4
174	Short segment pedicle screw instrumentation with an index level screw and cantilevered hyperlordotic reduction in the treatment of type-A fractures of the thoracolumbar spine. <i>Bone and Joint Journal</i> , 2014, 96-B, 541-547.	4.4	23
175	Influence of the screw augmentation technique and a diameter increase on pedicle screw fixation in the osteoporotic spine: pullout versus fatigue testing. <i>European Spine Journal</i> , 2014, 23, 2196-2202.	2.2	109
176	Biomechanical Analysis of Cement Augmentation Techniques on Pedicle Screw Fixation in Osteopenic Bone: A Cadaveric Study. <i>Spine Deformity</i> , 2014, 2, 28-33.	1.5	5
177	Surgical options for lumbosacral fusion: biomechanical stability, advantage, disadvantage and affecting factors in selecting options. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2014, 24, 73-82.	1.4	8
178	The Benefits of Cement Augmentation of Pedicle Screw Fixation Are Increased in Osteoporotic Bone: A Finite Element Analysis. <i>Spine Deformity</i> , 2014, 2, 248-259.	1.5	18
179	Biomechanical comparison of different combinations of hook and screw in one spine motion unit - an experiment in porcine model. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 197.	1.9	11
180	CT Provides Precise Size Assessment of Implanted Titanium Alloy Pedicle Screws. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 1605-1609.	1.5	12
181	The effect of pedicle screw redirection after lateral wall breach—a biomechanical study using human lumbar vertebrae. <i>Spine Journal</i> , 2014, 14, 98-103.	1.3	27
182	A BIOMECHANICAL STUDY OF SHEAR LOAD ON BONE—SCREW INTERFACE OF THORACOLUMBAR VERTEBRAE. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1540041.	0.7	2
183	Biomechanical Evaluation of Cross Trajectory Technique for Pedicle Screw Insertion: Combined Use of Traditional Trajectory and Cortical Bone Trajectory. <i>Orthopaedic Surgery</i> , 2015, 7, 317-323.	1.8	22
184	Leriche-Like Syndrome as a Delayed Complication Following Posterior Instrumentation of a Traumatic L1 Fracture. <i>Spine</i> , 2015, 40, E1195-E1197.	2.0	5
185	Evaluation of the Fixation Strength of Pedicle Screws Using Cortical Bone Trajectory. <i>Spine</i> , 2015, 40, E873-E878.	2.0	70
186	Balancing Rigidity and Safety of Pedicle Screw Fixation via a Novel Expansion Mechanism in a Severely Osteoporotic Model. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	4
187	Biomechanical Evaluation of the Pedicle Screw Insertion Depth Effect on Screw Stability Under Cyclic Loading and Subsequent Pullout. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, E133-E139.	1.9	53

#	ARTICLE	IF	CITATIONS
188	The biomechanics of pedicle screw augmentation with cement. <i>Spine Journal</i> , 2015, 15, 1432-1445.	1.3	129
189	Comparison of Pedicle Screw Loosening Mechanisms and the Effect on Fixation Strength. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 121003.	1.3	21
190	Quantitative dual-energy CT for phantomless evaluation of cancellous bone mineral density of the vertebral pedicle: correlation with pedicle screw pull-out strength. <i>European Radiology</i> , 2015, 25, 1714-1720.	4.5	31
191	Finite element analysis of Stryker Xia pedicle screw in artificial bone samples with and without supplemental cement augmentation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1459-1467.	1.6	4
192	Biomechanical evaluation of the fixation strength of lumbar pedicle screws using cortical bone trajectory: a finite element study. <i>Journal of Neurosurgery: Spine</i> , 2015, 23, 471-478.	1.7	99
193	The Top 100 Classic Papers in Lumbar Spine Surgery. <i>Spine</i> , 2015, 40, 740-747.	2.0	43
194	A study of sacral anthropometry to determine S1 screw placement for spinal lumbosacral fixation in the Korean population. <i>European Spine Journal</i> , 2015, 24, 2525-2529.	2.2	5
195	Adjustment of Suboptimally Placed Lumbar Pedicle Screws Decreases Pullout Strength and Alters Biomechanics of the Construct: A Pilot Cadaveric Study. <i>World Neurosurgery</i> , 2015, 83, 368-375.	1.3	7
196	The Effect of Transpedicular Screw Design on Its Performance in Vertebral Bone Under Tensile Loads. <i>Clinical Spine Surgery</i> , 2016, 29, 433-440.	1.3	8
197	MRIs Are Less Accurate Tools for the Most Critically Worrisome Pedicles Compared to CT Scans. <i>Spine Deformity</i> , 2016, 4, 400-406.	1.5	12
198	A finite element analysis based sensitivity studies on pull out strength of pedicle screw in synthetic osteoporotic bone models. , 2016, , .		9
199	Staged Correction of Severe Thoracic Kyphosis in Patients with Multilevel Osteoporotic Vertebral Compression Fractures. <i>Global Spine Journal</i> , 2016, 6, 710-720.	2.3	8
200	Spinal injuries affecting the thoracic and thoracolumbar spine. <i>Orthopaedics and Trauma</i> , 2016, 30, 402-412.	0.4	1
201	A pedicle screw system and a lamina hook system provide similar primary and long-term stability: a biomechanical in vitro study with quasi-static and dynamic loading conditions. <i>European Spine Journal</i> , 2016, 25, 2919-2928.	2.2	31
202	Biomechanical effect of the correction on the anchoring strength of de-orbiting S1 bicortical pedicle screw "An in-vitro investigation in normal and osteoporotic conditions. <i>Clinical Biomechanics</i> , 2016, 36, 26-31.	1.2	1
203	Radiographic comparison of cross-sectional lumbar pedicle fill when placing screws with navigation versus free-hand technique. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016, 12, 309-315.	2.3	3
204	Predictive validity of preoperative CT scans and the risk of pedicle screw loosening in spinal surgery. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2016, 136, 1063-1067.	2.4	129
205	Biomechanical evaluation of fixation strength among different sizes of pedicle screws using the cortical bone trajectory: what is the ideal screw size for optimal fixation?. <i>Acta Neurochirurgica</i> , 2016, 158, 465-471.	1.7	76

#	ARTICLE	IF	CITATIONS
206	Effect of augmentation techniques on the failure of pedicle screws under cranio-caudal cyclic loading. <i>European Spine Journal</i> , 2017, 26, 181-188.	2.2	60
207	Comparison of Pedicle Screw Fixation Strength Among Different Transpedicular Trajectories. <i>Clinical Spine Surgery</i> , 2017, 30, 301-307.	1.3	41
208	Surgical treatment of osteoporotic thoraco-lumbar compressive fractures: the use of pedicle screw with augmentation PMMA. <i>European Spine Journal</i> , 2017, 26, 546-551.	2.2	36
209	Pedicle screw augmentation in osteoporotic spine: indications, limitations and technical aspects. <i>European Journal of Trauma and Emergency Surgery</i> , 2017, 43, 3-8.	1.7	65
210	Interventions for osteoporosis in patients with degenerative scoliosis. <i>Seminars in Spine Surgery</i> , 2017, 29, 123-129.	0.2	1
211	Effect of various factors on pull out strength of pedicle screw in normal and osteoporotic cancellous bone models. <i>Medical Engineering and Physics</i> , 2017, 40, 28-38.	1.7	81
213	A novel technique for placement of sacro-alar-iliac (S2AI) screws by K-wire insertion using intraoperative navigation. <i>Journal of Clinical Neuroscience</i> , 2017, 45, 324-327.	1.5	11
214	Which salvage fixation technique is best for the failed initial screw fixation at the cervicothoracic junction? A biomechanical comparison study. <i>European Spine Journal</i> , 2017, 26, 2417-2424.	2.2	2
215	Influence of Hydroxyapatite Stick on Pedicle Screw Fixation in Degenerative Lumbar Spine. <i>Clinical Spine Surgery</i> , 2017, 30, E819-E826.	1.3	13
216	Robotic Guidance for S2-Alar-Iliac Screws in Spinal Deformity Correction. <i>Clinical Spine Surgery</i> , 2017, 30, E49-E53.	1.3	52
217	Role of Posterior Stabilization and Transpedicular Decompression in the Treatment of Thoracic and Thoracolumbar TB. <i>Clinical Spine Surgery</i> , 2017, 30, E1426-E1433.	1.3	12
218	The contribution of the cortical shell to pedicle screw fixation. <i>Journal of Spine Surgery</i> , 2017, 3, 184-192.	1.2	12
219	Medical management of bone loss from a spinal surgeon's perspective. <i>Seminars in Spine Surgery</i> , 2018, 30, 8-16.	0.2	0
220	The quantity of bone cement influences the anchorage of augmented pedicle screws in the osteoporotic spine: A biomechanical human cadaveric study. <i>Clinical Biomechanics</i> , 2018, 52, 14-19.	1.2	24
221	Anatomical Study of a Novel Iliosacral Screw Placement for Sacrum-Pelvis in Adult Via Computed Tomography Reconstruction. <i>Spine</i> , 2018, 43, E740-E745.	2.0	7
222	In vitro validation of a novel mechanical model for testing the anchorage capacity of pedicle screws using physiological load application. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 578-585.	3.1	21
223	A Novel Method for the Prediction of the Pedicle Screw Stability. <i>Clinical Spine Surgery</i> , 2018, 31, E473-E480.	1.3	26
224	Evaluating Pedicle-Screw Instrumentation Using Decision-Tree Analysis Based on Pullout Strength. <i>Asian Spine Journal</i> , 2018, 12, 611-621.	2.0	27

#	ARTICLE	IF	CITATIONS
225	Radiographic and Clinical Outcomes From the Use of S2 Alar Screws in Surgery for Adult Spinal Deformity. <i>Global Spine Journal</i> , 2018, 8, 668-675.	2.3	1
226	Radiographic outcomes of transosseous intradiscal screw fixation in lumbar reconstruction—Imaging results of an experience with an alternative in fixation of the unexpectedly osteopenic spine. <i>Clinical Neurology and Neurosurgery</i> , 2018, 174, 187-191.	1.4	2
227	Novel Procedure for Designing and 3D Printing a Customized Surgical Template for Arthrodesis Surgery on the Sacrum. <i>Symmetry</i> , 2018, 10, 334.	2.2	5
228	Intraoperative Radiographic Technique for Visualization of Bicortical or Tricortical Anteromedial Sacral Screw Placement. <i>Clinical Spine Surgery</i> , 2018, 31, 108-111.	1.3	4
229	Novel Placement of Cortical Bone Trajectory Screws in the Lumbar Spine. <i>Clinical Spine Surgery</i> , 2018, 31, E329-E336.	1.3	9
230	Using three-dimensional rapid prototyping in the design and development of orthopaedic screws in standardised pull-out tests. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 565-572.	1.8	2
231	Analysis of bone cement distribution around fenestrated pedicle screws in low bone quality lumbosacral vertebrae. <i>International Orthopaedics</i> , 2019, 43, 1873-1882.	1.9	2
232	Clinical evaluation of a bone cement-injectable cannulated pedicle screw augmented with polymethylmethacrylate: 128 osteoporotic patients with 42 months of follow-up. <i>Clinics</i> , 2019, 74, e346.	1.5	18
233	Cadaveric biomechanical testing of torque - to - failure magnitude of Bilateral Apical Vertebral Derotation maneuver in the thoracic spine. <i>PLoS ONE</i> , 2019, 14, e0221494.	2.5	2
234	Lower lumbar vertebra size and anatomic variation: An Anatomic-Radiologic Study. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2019, 105, 1137-1141.	2.0	1
235	Postoperative Spine. <i>Radiologic Clinics of North America</i> , 2019, 57, 415-438.	1.8	8
236	Thoracic pedicle screw fixation under axial and perpendicular loadings: A comprehensive numerical analysis. <i>Clinical Biomechanics</i> , 2019, 68, 190-196.	1.2	11
237	What is the difference in morphologic features of the lumbar vertebrae between Caucasian and Taiwanese subjects? A CT-based study: implications of pedicle screw placement via Roy-Camille or Weinstein method. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 252.	1.9	8
238	Sacropelvic Fixation: A Comprehensive Review. <i>Spine Deformity</i> , 2019, 7, 509-516.	1.5	21
239	Second Sacral Alar Screw Fixation: Anatomic Study of Three-Dimensional Computed Tomography and Case Report. <i>World Neurosurgery</i> , 2019, 126, e1542-e1548.	1.3	3
240	First results of multicortical screw anchoring compared with conventional bicortical screw placement in the sacrum: A biomechanical investigation of a new screw design. <i>Clinical Biomechanics</i> , 2019, 65, 100-104.	1.2	2
241	Single-stage posterior debridement, decompression and transpedicular screw fixation for the treatment of thoracolumbar junction (T12-L1) tuberculosis with associated neurological deficit: a multicentre retrospective study. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 95.	1.9	1
242	Surgical Decision for Elderly Spine Deformity Patient. <i>The Journal of the Korean Orthopaedic Association</i> , 2019, 54, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
243	Experimental Evaluation of Screw Pullout Force and Adjacent Bone Damage According to Pedicle Screw Design Parameters in Normal and Osteoporotic Bones. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 586.	2.5	12
244	Screw-Related Complications After Instrumentation of the Osteoporotic Spine: A Systematic Literature Review With Meta-Analysis. <i>Global Spine Journal</i> , 2020, 10, 69-88.	2.3	61
245	Assessment of Surgical Procedural Time, Pedicle Screw Accuracy, and Clinician Radiation Exposure of a Novel Robotic Navigation System Compared With Conventional Open and Percutaneous Freehand Techniques: A Cadaveric Investigation. <i>Global Spine Journal</i> , 2020, 10, 814-825.	2.3	24
246	A Case Series That Supports the Application of the S2AI Technique for Fractures and Failures After Lumbosacral Fusion. <i>HSS Journal</i> , 2020, 16, 117-125.	1.7	0
247	The Effect of Thoracolumbar Pedicle Isthmus on Pedicle Screw Accuracy. <i>Global Spine Journal</i> , 2020, 10, 393-398.	2.3	7
248	Individualized prediction of pedicle screw fixation strength with a finite element model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 155-167.	1.6	17
249	A bicortical pedicle screw in the caudad trajectory is the best option for the fixation of an osteoporotic vertebra: An in-vitro experimental study using synthetic lumbar osteoporotic bone models. <i>Clinical Biomechanics</i> , 2020, 72, 150-154.	1.2	9
250	The sacral screw placement depending on morphological and anatomical peculiarities. <i>Surgical and Radiologic Anatomy</i> , 2020, 42, 299-305.	1.2	5
251	Posterior Stabilization Without Neural Decompression in Osteoporotic Thoracolumbar Fractures With Dynamic Cord Compression Causing Incomplete Neurological Deficits. <i>Global Spine Journal</i> , 2022, 12, 464-475.	2.3	11
252	Evaluation and treatment of osteoporosis in patients undergoing spine surgery. <i>Seminars in Spine Surgery</i> , 2020, 32, 100828.	0.2	1
253	Effect of Fenestrated Pedicle Screws with Cement Augmentation in Osteoporotic Patients Undergoing Spinal Fusion. <i>World Neurosurgery</i> , 2020, 143, e351-e361.	1.3	14
254	Anatomy and Imaging Studies on Cortical Bone Screw Freehand Placement Applying Anatomical Targeting Technology. <i>Orthopaedic Surgery</i> , 2020, 12, 1954-1962.	1.8	10
255	Biomechanics of spinal implants—a review. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 042002.	1.2	17
256	Pedicle Morphometry Variations in Individuals with Degenerative Lumbar Spinal Stenosis. <i>BioMed Research International</i> , 2020, 2020, 1-6.	1.9	7
258	How to improve the safety of bicortical pedicle screw insertion in the thoracolumbar vertebrae: analysis base on three-dimensional CT reconstruction of patients in the prone position. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 444.	1.9	4
259	Impact of lumbar pedicle screw positioning on screw stability - A biomechanical investigation. <i>Clinical Biomechanics</i> , 2020, 74, 66-72.	1.2	3
260	Design and control of an image-guided robot for spine surgery in a hybrid OR. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, e2108.	2.3	10
261	Biomechanical comparison of sacral and transarticular sacroiliac screw fixation. <i>Spine Deformity</i> , 2020, 8, 853-862.	1.5	7

#	ARTICLE	IF	CITATIONS
262	Rescue Augmentation: Increased Stability in Augmentation After Initial Loosening of Pedicle Screws. <i>Global Spine Journal</i> , 2021, 11, 679-685.	2.3	6
263	Screws in Pelvic-Acetabular Fracture Fixation. , 2021, , 1-14.		0
264	The effect of simulation training on resident proficiency in thoracolumbar pedicle screw placement using computer-assisted navigation. <i>Journal of Neurosurgery: Spine</i> , 2021, 34, 127-134.	1.7	3
265	Laser resonance frequency analysis of pedicle screw stability: A cadaveric model bone study. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2474-2484.	2.3	8
266	Fenestrated Pedicle Screws in Spinal Oncology: Technique and Comparative Retrospective Analysis. <i>International Journal of Spine Surgery</i> , 2021, 15, 113-118.	1.5	2
267	Minimally Invasive Transforaminal Lumbar Interbody Fusion for 2-Level Degenerative Lumbar Disease in Patients With Osteoporosis: Long-Term Clinical and Radiographic Outcomes. <i>Operative Neurosurgery</i> , 2021, 20, 535-540.	0.8	5
268	Partial Threading of Pedicle Screws in a Standard Construct Increases Fatigue Life: A Biomechanical Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1503.	2.5	2
269	Patient-Specific Finite Element Models of Posterior Pedicle Screw Fixation: Effect of Screw's Size and Geometry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 643154.	4.1	14
270	Safe Zones for Spinopelvic Screws in Patients With Lumbosacral Transitional Vertebra. <i>Global Spine Journal</i> , 2023, 13, 1089-1096.	2.3	3
271	Intracardiac, pulmonary cement embolism in a 67-year-old female after cement-augmented pedicle screw instrumentation: A case report and review of literature. <i>World Journal of Clinical Cases</i> , 2021, 9, 3120-3129.	0.8	6
272	Biomechanical performance of bicortical versus pericortical bone trajectory (CBT) pedicle screws. <i>European Spine Journal</i> , 2021, 30, 2292-2300.	2.2	5
273	Misplaced S1 screw causing L5 radiculopathy, rare and unusual presentation: a report of 2 cases. <i>British Journal of Neurosurgery</i> , 2024, 38, 131-135.	0.8	1
274	Comparison of clinical effectiveness of fenestrated and conventional pedicle screws in patients undergoing spinal surgery: a systematic review and meta-analysis. <i>Expert Review of Medical Devices</i> , 2021, 18, 995-1022.	2.8	3
275	Spinopelvic fixation: indications, anatomical and biomechanical aspects and historical development of methods. <i>Hirurgia Pozvonochnika</i> , 2021, 18, 100-110.	0.4	1
276	Biomechanical Principles of Spinal Correction. , 1990, , 45-57.		2
277	Brust- und LendenwirbelsÄule. , 1998, , 241-372.		24
278	Fractures of the Osteoporotic Spine. <i>Orthopedic Clinics of North America</i> , 1990, 21, 143-150.	1.2	62
279	The Role of Transpedicular Fixation Systems for Stabilization of the Lumbar Spine. <i>Orthopedic Clinics of North America</i> , 1991, 22, 333-344.	1.2	36

#	ARTICLE	IF	CITATIONS
281	A New Instrumentation System for the Reduction and Posterior Stabilization of Unstable Thoracolumbar Fractures. <i>Neurosurgery</i> , 1992, 30, 208-217.	1.1	1
282	Biomechanical Study of the Pullout Resistance in Screws of a Vertebral Fixation System. <i>Advances in Mechanical Engineering</i> , 2011, 3, 701263.	1.6	2
283	Surgical Treatment of Osteoporotic Compression Fracture. <i>Journal of the Korean Fracture Society</i> , 2009, 22, 314.	0.1	2
284	Great Vessel Excursion: Prone Versus Supine Position. <i>International Journal of Spine Surgery</i> , 2019, 13, 158-161.	1.5	3
285	Catastrophic Fat Embolism Following Augmentation of Pedicle Screws with Bone Cement. <i>Journal of Bone and Joint Surgery - Series A</i> , 2003, 85, 1613.	3.0	2
286	The Effect of Toggling on the Pullout Strength of Bone Screws in Normal and Osteoporotic Bone Models. <i>The Open Mechanical Engineering Journal</i> , 2013, 7, 35-39.	0.3	9
287	Mid-length Pedicle Screws in Posterior Instrumentation of Scoliosis. <i>Asian Spine Journal</i> , 2019, 13, 815-822.	2.0	3
288	Identification of Pedicle Screw Pullout Load Paths for Osteoporotic Vertebrae. <i>Asian Spine Journal</i> , 2020, 14, 273-279.	2.0	5
289	A Prospective Study on the Feasibility, Safety, and Efficacy of a Modified Technique to Augment the Strength of Pedicle Screw in Osteoporotic Spine Fixation. <i>Asian Spine Journal</i> , 2020, 14, 357-363.	2.0	10
290	Impact of Screw Diameter and Length on Pedicle Screw Fixation Strength in Osteoporotic Vertebrae: A Finite Element Analysis. <i>Asian Spine Journal</i> , 2021, 15, 566-574.	2.0	28
291	Pullout Strength after Expandable Polymethylmethacrylate Transpedicular Screw Augmentation for Pedicle Screw Loosening. <i>Journal of Korean Neurosurgical Society</i> , 2015, 57, 229.	1.2	9
292	The Effects of Spinopelvic Parameters and Paraspinal Muscle Degeneration on S1 Screw Loosening. <i>Journal of Korean Neurosurgical Society</i> , 2015, 58, 357.	1.2	61
293	The Wiltse Pedicle Screw Fixation System. <i>Orthopedics</i> , 1988, 11, 1455-1460.	1.1	20
294	Measurement of Effective Pedicle Diameter in the Human Spine. <i>Orthopedics</i> , 1989, 12, 939-942.	1.1	37
295	Computed Tomographic Evaluation of the Internal Structure of the Lateral Sacral Mass in the Upper Sacra. <i>Orthopedics</i> , 1999, 22, 1137-1140.	1.1	13
296	Bone Density of the First Sacral Vertebra in Relation to Sacral Screw Placement: A Computed Tomography Study. <i>Orthopedics</i> , 2001, 24, 475-477.	1.1	8
297	Effect of Pedicle Fill on Axial Pullout Strength in Spinal Fixation After Rod Reduction. <i>Orthopedics</i> , 2017, 40, e990-e995.	1.1	6
298	Anatomical variations of ilio-lumbar artery and its relation with surgical landmarks. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , 2010, 44, 464-468.	0.8	15

#	ARTICLE	IF	CITATIONS
299	The evolution of image-guided lumbosacral spine surgery. <i>Annals of Translational Medicine</i> , 2015, 3, 69.	1.7	13
300	Role of mechanical factors in the evaluation of pedicle screw type spinal fixation devices. <i>Neurology India</i> , 2005, 53, 399.	0.4	13
301	Thoracic pedicle screw placement: Free-hand technique. <i>Neurology India</i> , 2005, 53, 512.	0.4	85
302	Pedicle-Screw Fixation in the Lumbar Spine. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 1995, 3, 263-274.	2.5	33
303	Posterior Instrumentation for Thoracolumbar Fractures. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2004, 12, 424-435.	2.5	84
304	Surgical treatment of a Malgaigne fracture. <i>Ulusal Travma Ve Acil Cerrahi Dergisi</i> , 2014, 20, 300-304.	0.3	3
305	Morphometry of the Iliolumbar Artery and the Iliolumbar Veins and Their Correlations with the Lumbosacral Trunk and the Obturator Nerve. <i>Journal of Clinical and Diagnostic Research JCDR</i> , 2013, 7, 422-6.	0.8	14
306	Effect of Bone Cement Augmentation of Pedicular Screwing for Osteoporotic Lumbar Spine. <i>Journal of Korean Society of Spine Surgery</i> , 2002, 9, 223.	0.3	1
307	Analysis of Aortic Passage in the Thoracic Region by Magnetic Resonance Imaging. <i>Journal of Korean Society of Spine Surgery</i> , 2002, 9, 289.	0.3	0
308	Challenges of Internal Fixation in Osteoporotic Spine. , 2002, , 355-369.		0
309	Lumbar Pedicle Morphology in Adolescent Idiopathic Scoliosis. <i>Orthopedics</i> , 2003, 26, 317-320.	1.1	4
310	Choice of Anterior and Posterior Thoracolumbar Spinal Implants. , 2003, , .		0
311	Reduction and Fixation of Sacroiliac Joint Dislocation by the Combined Use of S1 Pedicle Screws and an Iliac Rod. , 2003, , .		0
313	Improvement of Pedicle Screw Fixation with Hydroxyapatite Coating. , 2003, , .		0
314	Pedicle Screw Fixation in Thoracic or Thoracolumbar Burst Fractures. , 2004, , 440-461.		0
315	Biomechanics of Sacral Fixation. , 2004, , 492-502.		0
316	Complex Lumbosacropelvic Fixation Techniques. , 2005, , 1576-1585.		0
317	Dorsal Thoracic and Lumbar Screw Fixation and Pedicle Fixation Techniques. , 2005, , 1518-1528.		2

#	ARTICLE	IF	CITATIONS
318	Spinal Implant Attributes: Cantilever Beam Fixation. , 2005, , 1418-1429.		2
319	Management Of Symptomatic De Novo Adult Scoliosis Of The Lumbar Spine Caused By Progressive Hemi-Vertebral Compression Fractures Following Long-Term Glucocorticoid Therapy: A Case Report. The Internet Journal of Spine Surgery, 2005, 2, .	0.1	1
320	Metabolic Bone Disease. , 2005, , 1062-1090.		0
321	Thoracic and Lumbar Spine Construct Design. , 2005, , 1609-1616.		0
322	Preliminary Experience With The TangoRSRS: Polyaxial, Percutaneous, Cement Augmenting Pedicle Screw System. The Internet Journal of Spine Surgery, 2005, 1, .	0.1	0
323	Possibility Of Enhancement For The Pedicle Screw Fixations With HA Sticks (Hydroxyapatite Sticks) Augmentation: A Preliminary Report Of Clinical Results In Lumbar Reconstruction Surgery. The Internet Journal of Spine Surgery, 2007, 3, .	0.1	1
324	Scoliosis Correction with Thoracic Pedicle Screws: Posteroanterior C-arm Rotation Method. The Journal of the Korean Orthopaedic Association, 2007, 42, 98.	0.1	0
325	The History of Spinal Fusion Surgery. , 2007, , 21-35.		1
333	Sacral Screw Fixation. , 2010, , 335-340.		1
338	Cement Augmentation of Pedicle Screw Fixation. , 2012, , 351-357.		0
339	A Clinical Result of Pedicle Screw Fixation in Osteoporotic Spine - Complications and Prevention -. Journal of Korean Society of Spine Surgery, 2012, 19, 131.	0.0	0
340	Computed tomography-based navigation-assisted pedicle screw insertion for thoracic and lumbar spine fractures. Biomedical Journal, 2012, 35, 332.	3.1	15
341	Photoelastic Analysis of the Vertebral Fixation System Using Different Screws. Engineering, Technology & Applied Science Research, 2012, 2, 190-195.	1.9	3
342	Spinal Anatomy and Surgical Approaches. , 2013, , 1524-1558.e2.		0
343	Bone-Implant Interface in Spine Surgery. , 2014, , 295-305.		0
344	Minimally Invasive Cement-Augmented Pedicle Screw Fixation. , 2014, , 135-156.		1
345	Nuances of Percutaneous Thoracolumbar Pedicle Screw Fixation. , 2014, , 97-107.		2
346	Old and New Fashion: Minimally Invasive Spine Surgery for Adjacent Segmental Spinal Stenosis after Luque Sublaminar Wiring and Posterolateral Fusion: Case Report. Journal of Korean Society of Spine Surgery, 2014, 21, 179.	0.0	0

#	ARTICLE	IF	CITATIONS
347	Fusion Techniques for Degenerative Disease. , 1990, , 139-168.		1
348	The Use of Intrapedicular Fixation Systems in the Treatment of Thoracolumbar and Lumbosacral Fractures. Orthopedics, 1992, 15, 337-341.	1.1	3
349	StabilitÄt von Bogenwurzelschrauben beim in-vitro-Versuch an menschlichen StammwirbelsÄulen. Hefte Zur Zeitschrift Der Unfallchirurg, 1993, , 1199-1206.	0.0	0
350	Complications of Lumbar Spinal Surgery with Transpedicular Fixation. , 1993, , 338-346.		0
351	Periprosthetic Bone Mineral Density and Other Orthopedic Applications. , 1998, , 541-582.		2
352	Failure Mode of Pedicle Screw Fixation Depends Upon the Presence, Absence, and Position of Interbody Spacers. A Pilot Study. Journal of Testing and Evaluation, 2015, 43, 20130283.	0.7	0
353	A study of height and width of typical lumbar pedicles in relation to mechanical load. International Journal of Medical Science and Public Health, 2015, 4, 275.	0.2	1
354	Morphometric study of atypical lumbar vertebrae and its physiological correlation. International Journal of Medical Science and Public Health, 2015, 4, 262.	0.2	2
355	Effect of Application Techniques. SpringerBriefs in Applied Sciences and Technology, 2015, , 23-31.	0.4	0
356	Considerations for Surgical Treatment of Osteoporotic Spinal Fracture: Surgical Indication, Approach, Fixation, and Graft Material. Journal of Korean Society of Spine Surgery, 2016, 23, 41.	0.0	4
357	Biomechanics of Sacral Fixation. , 2016, , 469-479.		0
358	Pedicle Screw Fixation in Thoracic or Thoracolumbar Burst Fractures. , 2016, , 405-427.		4
359	Distal Fixation for Adult Lumbar Scoliosis: Indications and Techniques. , 2017, , 181-193.		0
360	Posterior Thoracic Spinal Fixation. , 2017, , 195-209.		1
361	Lumbosacral and Pelvic Fixation Techniques. , 2017, , 401-412.		0
362	Tibia IntramedÄller Ä±ivileme Sisteminde Proksimal Kilitleme VidalarÄ±nÄ±n DirenÄSlerinin KarÄYÄ±laÄYtÄ±rÄ±lmasÄ±: Biyomekanik Ä±alÄ±Yma. SÄ±leyman Demirel Ä±niversitesi TÄ±p FakÄ±ltesi Dergisi, 0, ,	0.2	0
363	Determining the Optimal Length and Safety of Pedicle Screws in the T12 Vertebra: A Morphometric Study. Cureus, 2018, 10, e2156.	0.5	0
364	Historical aspects of transpedicular fixation of the spine: literature review. Hirurgia Pozvonochnika, 2018, 15, 95-106.	0.4	2

#	ARTICLE	IF	CITATIONS
365	Preoperative Preparation of Osteoporotic Patients for Instrumented Spine Surgery. , 2019, , 277-322.		0
366	Determination of S1 screw adjustment parameters using by 3D CT images in healthy subjects. OrtadoÄŸu TÄ±p Dergisi, 2019, 11, 224-230.	0.1	0
367	Taille vertÄ©brale lombaire basse et variations anatomiquesÄ: une Ä©tude anatomo-radiologique. Revue De Chirurgie Orthopedique Et Traumatologique, 2019, 105, 723-727.	0.0	0
368	Konik ve silindirik pedikÄ¼l vidalarÄ±n sÄ±yÄ±rma direnÄŸleri ve direngenliklerinin karÄŸÄ±laÄ±rmaÄ± biyomekanik analizi. Mersin Ä°niversitesi SaÄŸlık Bilimleri Dergisi, 0, , .	0.4	0
369	Surgical Strategies in Osteoporotic Bone. , 2020, , 191-203.		0
370	Risk Factor Analysis of Facet Fusion Following Cervical Lateral Mass Screw Fixation with a Minimum 1-Year Follow-up: Assessment of Maximal Insertional Screw Torque and Incidence of Loosening. Neurologia Medico-Chirurgica, 2020, 61, 40-46.	2.2	1
372	Computer-assisted spine surgery. Computer Aided Surgery, 1998, 3, 297-305.	1.8	42
373	Triple-shape memory effect of long-chain branched Poly(lactic acid)-b-poly(lactide-co-caprolactone) and its controllable shape recovery as self-fastening smart bone fixture. Polymer, 2022, 238, 124421.	3.8	3
375	Beyond the pedicle screwâ€“a patent review. European Spine Journal, 2022, 31, 1553-1565.	2.2	4
376	Comparative Analysis of Lumbar Spine Vertebral Morphology Between MÄ±ori and New Zealand Europeans: A Computed Tomography Study. International Journal of Spine Surgery, 2021, 15, 1072-1081.	1.5	1
377	Augmentation of fenestrated pedicle screws with cement in patients with osteoporotic spine. Journal of Craniovertebral Junction and Spine, 2018, 9, 20.	0.8	17
378	Mean Canal-body Ratio among Specimens of Dried Lumbar Vertebrae in the Department of Anatomy of a Medical College: A Descriptive Cross-sectional Study. Journal of the Nepal Medical Association, 2022, 60, 389-392.	0.4	0
380	Hydroxyapatite composite resin cement augmentation of pedicle screw fixation. Clinical Orthopaedics and Related Research, 2003, , 253-61.	1.5	11
381	Combined anteroposterior approaches in lateral position treatment of lumbosacral tuberculous in single-stage. BMC Surgery, 2022, 22, 154.	1.3	1
382	Innovation of Surgical Techniques for Screw Fixation in Patients with Osteoporotic Spine. Journal of Clinical Medicine, 2022, 11, 2577.	2.4	11
383	Thoracic and Lumbar Spine Construct Design. , 2017, , 702-708.e1.		0
384	Dorsal Thoracic and Lumbar Screw Fixation and Pedicle Fixation Techniques. , 2017, , 717-728.e3.		0
385	Complex Lumbosacropelvic Fixation Techniques. , 2017, , 760-767.e2.		0

#	ARTICLE	IF	CITATIONS
386	Influence of Pedicle Screw Insertion Depth on Posterior Lumbar Interbody Fusion: Radiological Significance of Deeper Screw Placement. <i>Global Spine Journal</i> , 2024, 14, 470-477.	2.3	1
387	“Higher the grade-smaller the pedicle”: a study of pedicle dimensional variations in 100 cases of high grade lytic spondylolisthesis. <i>European Spine Journal</i> , 0, , .	2.2	0
388	Reliability of Hounsfield Unit for Assessing Asymmetrical Vertebral Bone Mass in Adult Degenerative Scoliosis. <i>International Journal of General Medicine</i> , 0, Volume 15, 5869-5877.	1.8	2
389	Freehand <sc>S2</sc> Alar Iliac Screw Placement Technique in Lumbosacral Spinal Tumors: A Preliminary Study. <i>Orthopaedic Surgery</i> , 2022, 14, 2195-2202.	1.8	1
390	An Experimental Study on the Biomechanical Effectiveness of Bone Cement-Augmented Pedicle Screw Fixation with Various Types of Fenestrations. <i>Journal of Korean Neurosurgical Society</i> , 0, , .	1.2	1
391	A Toggling Resistant In-Pedicle Expandable Anchor: A Preliminary Study. , 2022, , .		0
392	Clinical evaluation of S1 alar screws application in short-segment lumbosacral fixation and fusion for spine infection with severe S1 vertebral body loss. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	1.9	0
393	Clinical evaluation of the efficacy of a new bone cement-injectable cannulated pedicle screw in the treatment of spondylolysis-type lumbar spondylolisthesis with osteoporosis: a retrospective study. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	1.9	1
394	Sacropelvic fixation. <i>Egyptian Journal of Neurosurgery</i> , 2023, 38, .	0.6	0
395	Systematic Literature Review and Meta-Analysis on the Clinical Outcomes of Spine Surgeries in Patients with Concurrent Osteoporosis. <i>Spine Surgery and Related Research</i> , 2023, 7, 200-210.	0.7	3
396	The relationship of the posterior iliac interval and the S1 screw trajectory. <i>Journal of Clinical Neuroscience</i> , 2023, 111, 32-36.	1.5	0
397	Risk factor analysis of bone cement leakage for polymethylmethacrylate-augmented cannulated pedicle screw fixation in spinal disorders. <i>Heliyon</i> , 2023, 9, e15167.	3.2	0
398	Accuracy of pin placement in the canine thoracolumbar spine using a free-hand probing technique versus <sc>3D</sc>-printed patient-specific drill guides: An ex vivo study. <i>Veterinary Surgery</i> , 2023, 52, 648-660.	1.0	1
399	A Concentric Tube Steerable Drilling Robot for Minimally Invasive Spinal Fixation of Osteoporotic Vertebrae. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 3017-3027.	4.2	1
400	Tsetse fly inspired steerable bone drill—a proof of concept. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	4.1	0
401	Posteromedial Translation for Correction of Severe Hypokyphosis in Adolescent Idiopathic Scoliosis: Outcome Analysis with 2-year Follow-ups. <i>Archives of Neuroscience</i> , 2023, 10, .	0.3	0
402	Screws in Pelvic-Acetabular Fracture Fixation. , 2023, , 1-14.		0
403	Fenestrated screws in osteoporotic spine—Is there an association between the cement distribution and DEXA scan T score?. <i>Indian Spine Journal</i> , 2023, 6, 141.	0.1	0

#	ARTICLE	IF	CITATIONS
404	Cement Augmentation of Pedicle Screw Instrumentation: A Literature Review. Asian Spine Journal, 2023, 17, 939-948.	2.0	2
405	Reverse Lumbar Pedicle Screw in Oblique Lateral Interbody Fusion: A Novel Concept to Restrict Cage Subsidence. Orthopaedic Surgery, 2023, 15, 3193-3201.	1.8	0
406	Assessing the utility of MRI-based vertebral bone quality (VBQ) for predicting lumbar pedicle screw loosening. European Spine Journal, 0, , .	2.2	0
407	Sacral and Sacro-pelvic Implants. , 2023, , 2123-2137.		0
408	Screw Insertional Torque Measurement in Spine Surgery: Correlation With Bone Mineral Density and Hounsfield Unit. Neurospine, 2023, 20, 1177-1185.	2.9	0
409	Screws in Pelvic-acetabular Fracture Fixation. , 2023, , 1753-1766.		0
410	Percutaneous iliosacral screw fixation of sacral U-type fracture using a mid-foot intramedullary bolt: a case report. Singapore Medical Journal, 0, , .	0.6	0
411	Anaesthetic managements of 16 daysâ€™ neonate with large occipital meningoencephalocele in a resource-limited setting, Ethiopia: a clinical case report and review of literature. Annals of Medicine and Surgery, 2024, 86, 1720-1723.	1.1	0
412	S2 Alar Screw Insertion Accuracy and Factors Associated With Screw Loosening and Lumbosacral Nonunion. World Neurosurgery, 2024, 184, e129-e136.	1.3	0
413	The Results of Intramedullary Nailing with Sliding Restriction and Dynamization Method in Treating Intertrochanteric Fractures. Journal of the Korean Fracture Society, 2024, 37, 8.	0.1	0