

Shunwu Fan

List of Publications by Year in descending order

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111
papers

3,990
citations

159585

30
h-index

149698

56
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120
all docs

120
docs citations

120
times ranked

4146
citing authors

#	ARTICLE	IF	CITATIONS
1	The Influence of Endplate Morphology on Cage Subsidence in Patients With Stand-Alone Oblique Lateral Lumbar Interbody Fusion (OLIF). <i>Global Spine Journal</i> , 2023, 13, 97-103.	2.3	26
2	The Role of Hounsfield Unit in Intraoperative Endplate Violation and Delayed Cage Subsidence with Oblique Lateral Interbody Fusion. <i>Global Spine Journal</i> , 2023, 13, 1829-1839.	2.3	14
3	Mechanical force promotes dimethylarginine dimethylaminohydrolase 1-mediated hydrolysis of the metabolite asymmetric dimethylarginine to enhance bone formation. <i>Nature Communications</i> , 2022, 13, 50.	12.8	7
4	Comparative Efficacy of Pharmacological Therapies for Low Back Pain: A Bayesian Network Analysis. <i>Frontiers in Pharmacology</i> , 2022, 13, 811962.	3.5	3
5	Oxidative stress-induced circKIF18A downregulation impairs MCM7-mediated anti-senescence in intervertebral disc degeneration. <i>Experimental and Molecular Medicine</i> , 2022, 54, 285-297.	7.7	8
6	Stem cell-homing hydrogel-based miR-29b-5p delivery promotes cartilage regeneration by suppressing senescence in an osteoarthritis rat model. <i>Science Advances</i> , 2022, 8, eabk0011.	10.3	66
7	Suppression of osteoclast multinucleation via a posttranscriptional regulation-based spatiotemporally selective delivery system. <i>Science Advances</i> , 2022, 8, .	10.3	17
8	A Novel Inhibitor INF 39 Promotes Osteogenesis via Blocking the NLRP3/IL-1 β Axis. <i>BioMed Research International</i> , 2022, 2022, 1-12.	1.9	3
9	Importance of the epiphyseal ring in OLIF stand-alone surgery: a biomechanical study on cadaveric spines. <i>European Spine Journal</i> , 2021, 30, 79-87.	2.2	22
10	Extracellular matrix scaffold crosslinked with vancomycin for multifunctional antibacterial bone infection therapy. <i>Biomaterials</i> , 2021, 268, 120603.	11.4	55
11	Circular RNA circPDE4D Protects against Osteoarthritis by Binding to miR-103a-3p and Regulating FGF18. <i>Molecular Therapy</i> , 2021, 29, 308-323.	8.2	49
12	Modified poly(methyl methacrylate) bone cement in the treatment of K \bar{A} 1/4mmell disease. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbaa051.	3.7	12
13	Site-1 protease controls osteoclastogenesis by mediating LC3 transcription. <i>Cell Death and Differentiation</i> , 2021, 28, 2001-2018.	11.2	16
14	Predictive model for the 5-year survival status of osteosarcoma patients based on the SEER database and XGBoost algorithm. <i>Scientific Reports</i> , 2021, 11, 5542.	3.3	27
15	circCAMSAP1 promotes osteosarcoma progression and metastasis by sponging miR-145-5p and regulating FLI1 expression. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 23, 1120-1135.	5.1	26
16	CircSLC7A2 protects against osteoarthritis through inhibition of the miR-4498/TIMP3 axis. <i>Cell Proliferation</i> , 2021, 54, e13047.	5.3	24
17	Oxymatrine Attenuates Osteoclastogenesis via Modulation of ROS-Mediated SREBP2 Signaling and Counteracts Ovariectomy-Induced Osteoporosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 684007.	3.7	10
18	circPDE4B prevents articular cartilage degeneration and promotes repair by acting as a scaffold for RIC8A and MID1. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 1209-1219.	0.9	56

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19	The correlation between the change of Hounsfield units value and Modic changes in the lumbar vertebral endplate. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 509.	1.9	5
20	Patchouli Alcohol Modulates the Pregnancy X Receptor/Toll-like Receptor 4/Nuclear Factor Kappa B Axis to Suppress Osteoclastogenesis. <i>Frontiers in Pharmacology</i> , 2021, 12, 684976.	3.5	4
21	Current Advances in the Development of Decellularized Plant Extracellular Matrix. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 712262.	4.1	14
22	Oxidative Stress-Induced Hypermethylation of KLF5 Promoter Mediated by DNMT3B Impairs Osteogenesis by Diminishing the Interaction with β -Catenin. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 1-20.	5.4	21
23	Trends of epidemiological characteristics of traumatic spinal cord injury in China, 2009–2018. <i>European Spine Journal</i> , 2021, 30, 3115-3127.	2.2	29
24	The Effect of Oblique Lumbar Interbody Fusion Compared with Transforaminal Lumbar Interbody Fusion Combined with Enhanced Recovery after Surgery Program on Patients with Lumbar Degenerative Disease at Short-Term Follow-Up. <i>BioMed Research International</i> , 2021, 2021, 1-7.	1.9	5
25	TGF β 2 inhibitor RepSox suppresses osteosarcoma via the JNK/Smad3 signaling pathway. <i>International Journal of Oncology</i> , 2021, 59, .	3.3	15
26	Proteoglycan-depleted regions of annular injury promote nerve ingrowth in a rabbit disc degeneration model. <i>Open Medicine (Poland)</i> , 2021, 16, 1616-1627.	1.3	2
27	Correlation Analysis Between Basic Diseases and Subsequent Vertebral Fractures After Percutaneous Kyphoplasty (PKP) for Osteoporotic Vertebral Compression Fractures. <i>Pain Physician</i> , 2021, 24, E803-E810.	0.4	2
28	Periosteal matrix-derived hydrogel promotes bone repair through an early immune regulation coupled with enhanced angio- and osteogenesis. <i>Biomaterials</i> , 2020, 227, 119552.	11.4	205
29	Lubricin expression in the lumbar endplate and its association with Modic changes. <i>Journal of Orthopaedic Translation</i> , 2020, 22, 124-131.	3.9	6
30	Lycorine Induces Apoptosis and G1 Phase Arrest Through ROS/p38 MAPK Signaling Pathway in Human Osteosarcoma Cells In Vitro and In Vivo. <i>Spine</i> , 2020, 45, E126-E139.	2.0	16
31	Some Questions About the Article “The Efficacy and Safety of Vertebral Augmentation: A Second ASBMR Task Force Report”. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 211-211.	2.8	0
32	Cyclin-Dependent Kinase 9 (CDK9) Inhibitor Atuveciclib Suppresses Intervertebral Disk Degeneration via the Inhibition of the NF- κ B Signaling Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 579658.	3.7	3
33	Homocysteine induces oxidative stress and ferroptosis of nucleus pulposus via enhancing methylation of GPX4. <i>Free Radical Biology and Medicine</i> , 2020, 160, 552-565.	2.9	102
34	Osteal Tissue Macrophages Are Involved in Endplate Osteosclerosis through the OSM-STAT3/YAP1 Signaling Axis in Modic Changes. <i>Journal of Immunology</i> , 2020, 205, 968-980.	0.8	11
35	CircECE1 activates energy metabolism in osteosarcoma by stabilizing c-Myc. <i>Molecular Cancer</i> , 2020, 19, 151.	19.2	107
36	Smart Nanosacrificial Layer on the Bone Surface Prevents Osteoporosis through Acid–Base Neutralization Regulated Biocascade Effects. <i>Journal of the American Chemical Society</i> , 2020, 142, 17543-17556.	13.7	40

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37	CircCDK14 protects against Osteoarthritis by sponging miR-125a-5p and promoting the expression of Smad2. <i>Theranostics</i> , 2020, 10, 9113-9131.	10.0	59
38	Desktop-Stereolithography 3D Printing of a Polyporous Extracellular Matrix Bioink for Bone Defect Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 589094.	4.1	17
39	The influence of long-term shoulder loading on sagittal spino-pelvic morphology: a population-based retrospective study of Chinese farmers from radiology. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 196.	2.3	2
40	Recurrent disc herniation following percutaneous endoscopic lumbar discectomy preferentially occurs when Modic changes are present. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 176.	2.3	24
41	TGF β 2 attenuates cartilage extracellular matrix degradation via enhancing FBXO6-mediated MMP14 ubiquitination. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 1111-1120.	0.9	39
42	An investigation and validation of CT scan in detection of spinal epidural adipose tissue. <i>Medicine (United States)</i> , 2020, 99, e19448.	1.0	2
43	Oxidative stress abrogates the degradation of KMT2D to promote degeneration in nucleus pulposus. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165888.	3.8	15
44	Modic Changes (MCs) Associated with Endplate Sclerosis Can Prevent Cage Subsidence in Oblique Lumbar Interbody Fusion (OLIF) Stand-Alone. <i>World Neurosurgery</i> , 2020, 138, e160-e168.	1.3	29
45	Reoccurring discogenic low back pain (LBP) after discoblock treated by oblique lumbar interbody fusion (OLIF). <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 22.	2.3	8
46	Circ0083429 Regulates Osteoarthritis Progression via the Mir-346/SMAD3 Axis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 579945.	3.7	10
47	An Antioxidant Sesquiterpene Inhibits Osteoclastogenesis Via Blocking IPMK/TRAF6 and Counteracts OVX-Induced Osteoporosis in Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 1850-1865.	2.8	15
48	The SFRP1 Inhibitor WAY-316606 Attenuates Osteoclastogenesis Through Dual Modulation of Canonical Wnt Signaling. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 152-166.	2.8	4
49	Glabridin inhibits osteosarcoma migration and invasion via blocking the p38 α -and JNK α -mediated CREB β -AP1 complexes formation. <i>Journal of Cellular Physiology</i> , 2019, 234, 4167-4178.	4.1	17
50	Mesenchymal stem cell-derived exosomes ameliorate intervertebral disc degeneration via anti-oxidant and anti-inflammatory effects. <i>Free Radical Biology and Medicine</i> , 2019, 143, 1-15.	2.9	177
51	Preparation of Decellularized Triphasic Hierarchical Bone β -Fibrocartilage β -Tendon Composite Extracellular Matrix for Enthesis Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900831.	7.6	32
52	CircMYO10 promotes osteosarcoma progression by regulating miR-370-3p/RUVBL1 axis to enhance the transcriptional activity of β -catenin/LEF1 complex via effects on chromatin remodeling. <i>Molecular Cancer</i> , 2019, 18, 150.	19.2	95
53	Obesity Mediates Apoptosis and Extracellular Matrix Metabolic Imbalances via MAPK Pathway Activation in Intervertebral Disk Degeneration. <i>Frontiers in Physiology</i> , 2019, 10, 1284.	2.8	21
54	The PPAR- β antagonist T007 inhibits RANKL-induced osteoclastogenesis and counteracts OVX-induced bone loss in mice. <i>Cell Communication and Signaling</i> , 2019, 17, 136.	6.5	18

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55	Administration of SB239063 Ameliorates Ovariectomy-Induced Bone Loss via Suppressing Osteoclastogenesis in Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 900.	3.5	4
56	The emerging role of IMD 0354 on bone homeostasis by suppressing osteoclastogenesis and bone resorption, but without affecting bone formation. <i>Cell Death and Disease</i> , 2019, 10, 654.	6.3	8
57	Association between Modic changes and endplate sclerosis: Evidence from a clinical radiology study and a rabbit model. <i>Journal of Orthopaedic Translation</i> , 2019, 16, 71-77.	3.9	12
58	Desktop-stereolithography 3D printing of a radially oriented extracellular matrix/mesenchymal stem cell exosome bioink for osteochondral defect regeneration. <i>Theranostics</i> , 2019, 9, 2439-2459.	10.0	280
59	Pseurotin A Inhibits Osteoclastogenesis and Prevents Ovariectomized-Induced Bone Loss by Suppressing Reactive Oxygen Species. <i>Theranostics</i> , 2019, 9, 1634-1650.	10.0	165
60	CircSERPINE2 protects against osteoarthritis by targeting miR-1271 and ETS-related gene. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 826-836.	0.9	207
61	Association between serum high-density lipoprotein cholesterol and bone health in the general population: a large and multicenter study. <i>Archives of Osteoporosis</i> , 2019, 14, 36.	2.4	9
62	Circular RNA circTADA2A promotes osteosarcoma progression and metastasis by sponging miR-203a-3p and regulating CREB3 expression. <i>Molecular Cancer</i> , 2019, 18, 73.	19.2	198
63	Photo-crosslinked gelatin-hyaluronic acid methacrylate hydrogel-committed nucleus pulposus-like differentiation of adipose stromal cells for intervertebral disc repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 682-693.	2.7	36
64	Primary chondrocyte exosomes mediate osteoarthritis progression by regulating mitochondrion and immune reactivity. <i>Nanomedicine</i> , 2019, 14, 3193-3212.	3.3	50
65	The Novel p38 Inhibitor, Pamapimod, Inhibits Osteoclastogenesis and Counteracts Estrogen-Dependent Bone Loss in Mice. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 911-922.	2.8	24
66	SREBP-2 aggravates breast cancer associated osteolysis by promoting osteoclastogenesis and breast cancer metastasis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 115-125.	3.8	30
67	Activating; β -catenin/Pax6 axis negatively regulates osteoclastogenesis by selectively inhibiting phosphorylation of p38/MAPK. <i>FASEB Journal</i> , 2019, 33, 4236-4247.	0.5	23
68	Raddeanin A suppresses breast cancer-associated osteolysis through inhibiting osteoclasts and breast cancer cells. <i>Cell Death and Disease</i> , 2018, 9, 376.	6.3	23
69	Superior cortical screw in osteoporotic lumbar vertebrae: A biomechanics and microstructure-based study. <i>Clinical Biomechanics</i> , 2018, 53, 14-21.	1.2	8
70	Periosteum Extracellular Matrix-Mediated Acellular Mineralization during Bone Formation. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700660.	7.6	43
71	Preparation of decellularized biphasic hierarchical myotendinous junction extracellular matrix for muscle regeneration. <i>Acta Biomaterialia</i> , 2018, 68, 15-28.	8.3	26
72	Bone-targeted methotrexate-alendronate conjugate inhibits osteoclastogenesis <i>in vitro</i> and prevents bone loss and inflammation of collagen-induced arthritis <i>in vivo</i> . <i>Drug Delivery</i> , 2018, 25, 187-197.	5.7	15

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73	The TAZâ€“miR-224â€“SMAD4 axis promotes tumorigenesis in osteosarcoma. <i>Cell Death and Disease</i> , 2018, 8, e2539-e2539.	6.3	27
74	Painful Schmorlâ€™s nodes treated by discography and discoblock. <i>European Spine Journal</i> , 2018, 27, 13-18.	2.2	12
75	A Novel Diterpenoid Suppresses Osteoclastogenesis and Promotes Osteogenesis by Inhibiting Irf1-Mediated and Irf1-Mediated p53 Nuclear Translocation. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 667-678.	2.8	49
76	The mechanism of thoracolumbar burst fracture may be related to the basivertebral foramen. <i>Spine Journal</i> , 2018, 18, 472-481.	1.3	8
77	TGF-Î² synergizes with ML264 to block IL-1Î²-induced matrix degradation mediated by KrÄ¼ppel-like factor 5 in the nucleus pulposus. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 579-589.	3.8	14
78	The Sensitivity of Orthopaedic Surgeons to the Secondary Prevention of Fragility Fractures. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, e153.	3.0	8
79	Cement Distribution Patterns Are Associated with Recompression in Cemented Vertebrae After Percutaneous Vertebroplasty: A Retrospective Study. <i>World Neurosurgery</i> , 2018, 120, e1-e7.	1.3	20
80	Interpenetrating polymer network scaffold of sodium hyaluronate and sodium alginate combined with berberine for osteochondral defect regeneration. <i>Materials Science and Engineering C</i> , 2018, 91, 190-200.	7.3	45
81	Mechanism of formation of intravertebral clefts in osteoporotic vertebral compression fractures: An in vitro biomechanical study. <i>Spine Journal</i> , 2018, 18, 2297-2301.	1.3	8
82	Flavopiridol Protects Bone Tissue by Attenuating RANKL Induced Osteoclast Formation. <i>Frontiers in Pharmacology</i> , 2018, 9, 174.	3.5	20
83	The Effect of Combination Pharmacotherapy on Low Back Pain. <i>Clinical Journal of Pain</i> , 2018, 34, 1039-1046.	1.9	2
84	Trabecular Microstructure and Damage Affect Cement Leakage From the Basivertebral Foramen During Vertebral Augmentation. <i>Spine</i> , 2017, 42, E939-E948.	2.0	8
85	Accuracy of pedicle screw placement in posterior lumbosacral instrumentation by computer tomography evaluation: A multi-centric retrospective clinical study. <i>International Journal of Surgery</i> , 2017, 43, 46-51.	2.7	8
86	Polymorphisms in the Glucocorticoid Receptor Gene and Associations with Glucocorticoid-Induced Avascular Osteonecrosis of the Femoral Head. <i>Genetic Testing and Molecular Biomarkers</i> , 2017, 21, 322-327.	0.7	10
87	Current advances in the development of natural meniscus scaffolds: innovative approaches to decellularization and recellularization. <i>Cell and Tissue Research</i> , 2017, 370, 41-52.	2.9	35
88	Decellularized tendon as a prospective scaffold for tendon repair. <i>Materials Science and Engineering C</i> , 2017, 77, 1290-1301.	7.3	32
89	Preparation and Evaluation of Tibia- and Calvarium-Derived Decellularized Periosteum Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3503-3514.	5.2	9
90	Effects of annulus defects and implantation of poly(lactic-co-glycolic acid) (PLGA)/fibrin gel scaffolds on nerves ingrowth in a rabbit model of annular injury disc degeneration. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 73.	2.3	10

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91	Blocking autophagy enhances the apoptotic effect of 18 β -glycyrrhetic acid on human sarcoma cells via endoplasmic reticulum stress and JNK activation. <i>Cell Death and Disease</i> , 2017, 8, e3055-e3055.	6.3	31
92	Application of postoperative autotransfusion in total joint arthroplasty reduces allogeneic blood requirements: a meta-analysis of randomized controlled trials. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 378.	1.9	2
93	Sanguinarine protects against osteoarthritis by suppressing the expression of catabolic proteases. <i>Oncotarget</i> , 2017, 8, 62900-62913.	1.8	17
94	Photo-crosslinked HAMA hydrogel with cordycepin encapsulated chitosan microspheres for osteoarthritis treatment. <i>Oncotarget</i> , 2017, 8, 2835-2849.	1.8	35
95	The amelioration of cartilage degeneration by photo-crosslinked GelHA hydrogel and crizotinib encapsulated chitosan microspheres. <i>Oncotarget</i> , 2017, 8, 30235-30251.	1.8	11
96	An injectable nucleus pulposus cell-modified decellularized scaffold: biocompatible material for prevention of disc degeneration. <i>Oncotarget</i> , 2017, 8, 40276-40288.	1.8	16
97	Decellularized allogeneic intervertebral disc: natural biomaterials for regenerating disc degeneration. <i>Oncotarget</i> , 2016, 7, 12121-12136.	1.8	36
98	Validation of downregulated microRNAs during osteoclast formation and osteoporosis progression. <i>Molecular Medicine Reports</i> , 2016, 13, 2273-2280.	2.4	18
99	Biomechanical properties of lumbar endplates and their correlation with MRI findings of lumbar degeneration. <i>Journal of Biomechanics</i> , 2016, 49, 586-593.	2.1	28
100	Pathogenesis of the intravertebral vacuum of K \ddot{A} ¼mmell's disease. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 879-882.	1.8	47
101	The Effects of Acupuncture on Chronic Knee Pain Due to Osteoarthritis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1578-1585.	3.0	67
102	Minimal invasive annulotomy for induction of disc degeneration and implantation of poly (lactic-co-glycolic acid) (PLGA) plugs for annular repair in a rabbit model. <i>European Journal of Medical Research</i> , 2016, 21, 7.	2.2	16
103	Intra-articular delivery of sinomenium encapsulated by chitosan microspheres and photo-crosslinked GelMA hydrogel ameliorates osteoarthritis by effectively regulating autophagy. <i>Biomaterials</i> , 2016, 81, 1-13.	11.4	103
104	Association between serum uric acid and bone health in general population: a large and multicentre study. <i>Oncotarget</i> , 2015, 6, 35395-35403.	1.8	26
105	Gambogic acid inhibits osteoclast formation and ovariectomy-induced osteoporosis by suppressing the JNK, p38 and Akt signalling pathways. <i>Biochemical Journal</i> , 2015, 469, 399-408.	3.7	29
106	Quantitative MRI and X-ray analysis of disc degeneration and paraspinal muscle changes in degenerative spondylolisthesis. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2015, 28, 277-285.	1.1	30
107	Pathomechanism of intravertebral clefts in osteoporotic compression fractures of the spine: basivertebral foramen collapse might cause intravertebral avascular necrosis. <i>Spine Journal</i> , 2014, 14, 1090-1091.	1.3	9
108	Basivertebral foramen could be connected with intravertebral cleft: a potential risk factor of cement leakage in percutaneous kyphoplasty. <i>Spine Journal</i> , 2014, 14, 1551-1558.	1.3	44

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109	Cross-Cultural Adaptation and Validation of Simplified Chinese Version of the Roland-Morris Disability Questionnaire. <i>Spine</i> , 2012, 37, 875-880.	2.0	27
110	Modified placement of cervical drainage tube for anterior cervical spinal surgery. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2011, 21, 445-448.	1.4	0
111	Multifidus muscle changes and clinical effects of one-level posterior lumbar interbody fusion: minimally invasive procedure versus conventional open approach. <i>European Spine Journal</i> , 2010, 19, 316-324.	2.2	242