

# Shunwu Fan

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

3,990  
citations

159585

30  
h-index

149698

56  
g-index

120  
all docs

120  
docs citations

120  
times ranked

4146  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	CircECE1 activates energy metabolism in osteosarcoma by stabilizing c-Myc. <i>Molecular Cancer</i> , 2020, 19, 151.	19.2	107
9	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
10	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
11	CircMYO10 promotes osteosarcoma progression by regulating miR-370-3p/RUVBL1 axis to enhance the transcriptional activity of $\beta$ -catenin/LEF1 complex via effects on chromatin remodeling. <i>Molecular Cancer</i> , 2019, 18, 150.	19.2	95
12	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
13	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
14	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
15	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
16	Extracellular matrix scaffold crosslinked with vancomycin for multifunctional antibacterial bone infection therapy. <i>Biomaterials</i> , 2021, 268, 120603.	11.4	55
17	Primary chondrocyte exosomes mediate osteoarthritis progression by regulating mitochondrion and immune reactivity. <i>Nanomedicine</i> , 2019, 14, 3193-3212.	3.3	50
18	A Novel Diterpenoid Suppresses Osteoclastogenesis and Promotes Osteogenesis by Inhibiting Irf1-Mediated and $\text{I}\beta\text{B}\alpha$ -Mediated p65 Nuclear Translocation. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 667-678.	2.8	49

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19	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
20	Pathogenesis of the intravertebral vacuum of KÄ¼mmell's disease. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 879-882.	1.8	47
21	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
22	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
23	Periosteum Extracellularâ€Matrixâ€Mediated Acellular Mineralization during Bone Formation. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700660.	7.6	43
24	Smart Nanosacrificial Layer on the Bone Surface Prevents Osteoporosis through Acidâ€Base Neutralization Regulated Biocascade Effects. <i>Journal of the American Chemical Society</i> , 2020, 142, 17543-17556.	13.7	40
25	TGFÎ² 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
26	Decellularized allogeneic intervertebral disc: natural biomaterials for regenerating disc degeneration. <i>Oncotarget</i> , 2016, 7, 12121-12136.	1.8	36
27	Photoâ€crosslinked gelatinâ€hyaluronic acid methacrylate hydrogelâ€committed nucleus pulposusâ€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
28	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
29	Photo-crosslinked HAMA hydrogel with cordycepin encapsulated chitosan microspheres for osteoarthritis treatment. <i>Oncotarget</i> , 2017, 8, 2835-2849.	1.8	35
30	Decellularized tendon as a prospective scaffold for tendon repair. <i>Materials Science and Engineering C</i> , 2017, 77, 1290-1301.	7.3	32
31	Preparation of Decellularized Triphasic Hierarchical Boneâ€Fibrocartilageâ€Tendon Composite Extracellular Matrix for Enthesis Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900831.	7.6	32
32	Blocking autophagy enhances the apoptotic effect of 18Î²-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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	The TAZ–miR-224–SMAD4 axis promotes tumorigenesis in osteosarcoma. <i>Cell Death and Disease</i> , 2018, 8, e2539-e2539.	6.3	27
41	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
42	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
43	Preparation of decellularized biphasic hierarchical myotendinous junction extracellular matrix for muscle regeneration. <i>Acta Biomaterialia</i> , 2018, 68, 15-28.	8.3	26
44	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
45	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
46	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
47	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
48	CircSLC7A2 protects against osteoarthritis through inhibition of the miR-4498/TIMP3 axis. <i>Cell Proliferation</i> , 2021, 54, e13047.	5.3	24
49	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
50	Activating; $\beta$ -catenin/Pax6 axis negatively regulates osteoclastogenesis by selectively inhibiting phosphorylation of p38/MAPK. <i>FASEB Journal</i> , 2019, 33, 4236-4247.	0.5	23
51	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
52	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
53	Oxidative Stress-Induced Hypermethylation of KLF5 Promoter Mediated by DNMT3B Impairs Osteogenesis by Diminishing the Interaction with $\beta$ -Catenin. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 1-20.	5.4	21
54	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

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55	Flavopiridol Protects Bone Tissue by Attenuating RANKL Induced Osteoclast Formation. <i>Frontiers in Pharmacology</i> , 2018, 9, 174.	3.5	20
56	Validation of downregulated microRNAs during osteoclast formation and osteoporosis progression. <i>Molecular Medicine Reports</i> , 2016, 13, 2273-2280.	2.4	18
57	The PPAR- $\gamma$ 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
58	Sanguinarine protects against osteoarthritis by suppressing the expression of catabolic proteases. <i>Oncotarget</i> , 2017, 8, 62900-62913.	1.8	17
59	Clabridin inhibits osteosarcoma migration and invasion via blocking the p38 and JNK mediated CREB/AP1 complexes formation. <i>Journal of Cellular Physiology</i> , 2019, 234, 4167-4178.	4.1	17
60	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
61	Suppression of osteoclast multinucleation via a posttranscriptional regulation based spatiotemporally selective delivery system. <i>Science Advances</i> , 2022, 8, .	10.3	17
62	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
63	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
64	Site-1 protease controls osteoclastogenesis by mediating LC3 transcription. <i>Cell Death and Differentiation</i> , 2021, 28, 2001-2018.	11.2	16
65	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
66	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
67	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
68	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
69	TGF- $\beta$ 1 inhibitor RepSox suppresses osteosarcoma via the JNK/Smad3 signaling pathway. <i>International Journal of Oncology</i> , 2021, 59, .	3.3	15
70	TGF- $\beta$ 2 synergizes with ML264 to block IL-1 $\beta$ -induced matrix degradation mediated by Kr $\beta$ 1/4ppel-like factor 5 in the nucleus pulposus. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 579-589.	3.8	14
71	Current Advances in the Development of Decellularized Plant Extracellular Matrix. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 712262.	4.1	14
72	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

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73	Painful Schmorl's nodes treated by discography and discoblock. <i>European Spine Journal</i> , 2018, 27, 13-18.	2.2	12
74	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
75	Modified poly(methyl methacrylate) bone cement in the treatment of K <sub>1</sub> /4mmell disease. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbaa051.	3.7	12
76	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
77	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
78	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
79	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
80	Circ0083429 Regulates Osteoarthritis Progression via the Mir-346/SMAD3 Axis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 579945.	3.7	10
81	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
82	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
83	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
84	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
85	Trabecular Microstructure and Damage Affect Cement Leakage From the Basivertebral Foramen During Vertebral Augmentation. <i>Spine</i> , 2017, 42, E939-E948.	2.0	8
86	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
87	Superior cortical screw in osteoporotic lumbar vertebrae: A biomechanics and microstructure-based study. <i>Clinical Biomechanics</i> , 2018, 53, 14-21.	1.2	8
88	The mechanism of thoracolumbar burst fracture may be related to the basivertebral foramen. <i>Spine Journal</i> , 2018, 18, 472-481.	1.3	8
89	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
90	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

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91	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
92	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
93	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
94	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
95	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
96	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
97	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
98	Administration of SB239063 Ameliorates Ovariectomy-Induced Bone Loss via Suppressing Osteoclastogenesis in Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 900.	3.5	4
99	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
100	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
101	Cyclin-Dependent Kinase 9 (CDK9) Inhibitor Atuveclib Suppresses Intervertebral Disk Degeneration via the Inhibition of the NF- $\kappa$ B Signaling Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 579658.	3.7	3
102	Comparative Efficacy of Pharmacological Therapies for Low Back Pain: A Bayesian Network Analysis. <i>Frontiers in Pharmacology</i> , 2022, 13, 811962.	3.5	3
103	A Novel Inhibitor INF 39 Promotes Osteogenesis via Blocking the NLRP3/IL-1 $\beta$ Axis. <i>BioMed Research International</i> , 2022, 2022, 1-12.	1.9	3
104	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
105	The Effect of Combination Pharmacotherapy on Low Back Pain. <i>Clinical Journal of Pain</i> , 2018, 34, 1039-1046.	1.9	2
106	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
107	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
108	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

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109	Correlation Analysis Between Basic Diseases and Subsequent Vertebral Fractures After Percutaneous Kyphoplasty (PKP) for Osteoporotic Vertebral Compression Fractures. Pain Physician, 2021, 24, E803-E810.	0.4	2
110	Modified placement of cervical drainage tube for anterior cervical spinal surgery. European Journal of Orthopaedic Surgery and Traumatology, 2011, 21, 445-448.	1.4	0
111	Some Questions About the Article “The Efficacy and Safety of Vertebral Augmentation: A Second ASBMR Task Force Report”. Journal of Bone and Mineral Research, 2020, 35, 211-211.	2.8	0