Po-Liang Lai

List of Publications by Year
in descending order

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152	3,020	172457	223800
papers	citations	29 h-index	46 g-index

157	157	157	3206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surgical Treatment of Adjacent Instability After Lumbar Spine Fusion. Spine, 2001, 26, E519-E524.	2.0	121
2	Relation Between Laminectomy and Development of Adjacent Segment Instability After Lumbar Fusion With Pedicle Fixation. Spine, 2004, 29, 2527-2532.	2.0	121
3	Pullout strength for cannulated pedicle screws with bone cement augmentation in severely osteoporotic bone: Influences of radial hole and pilot hole tapping. Clinical Biomechanics, 2009, 24, 613-618.	1.2	115
4	Pullout strength of pedicle screws with cement augmentation in severe osteoporosis: A comparative study between cannulated screws with cement injection and solid screws with cement pre-filling. BMC Musculoskeletal Disorders, 2011, 12, 33.	1.9	110
5	Symptomatic epidural hematoma after lumbar decompression surgery. European Spine Journal, 2015, 24, 348-357.	2.2	93
6	The Fusion Rate of Calcium Sulfate With Local Autograft Bone Compared With Autologous Iliac Bone Graft for Instrumented Short-Segment Spinal Fusion. Spine, 2005, 30, 2293-2297.	2.0	84
7	Long-term Results of Disc Excision for Recurrent Lumbar Disc Herniation With or Without Posterolateral Fusion. Spine, 2005, 30, 2830-2834.	2.0	83
8	Repeated percutaneous vertebroplasty for refracture of cemented vertebrae. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 927-933.	2.4	77
9	Polymethylmethacrylate Cement Dislodgment Following Percutaneous Vertebroplasty: A Case Report. Spine, 2003, 28, E457-E460.	2.0	69
10	A Comparison of Posterolateral Lumbar Fusion Comparing Autograft, Autogenous Laminectomy Bone With Bone Marrow Aspirate, and Calcium Sulphate With Bone Marrow Aspirate. Spine, 2009, 34, 2715-2719.	2.0	66
11	Computer-assisted fluoroscopic navigation of pedicle screw insertion An in vivo feasibility study. Acta Orthopaedica, 2004, 75, 730-735.	1.4	62
12	CRISPR technologies for stem cell engineering and regenerative medicine. Biotechnology Advances, 2019, 37, 107447.	11.7	59
13	Advanced glycation end products in degenerative nucleus pulposus with diabetes. Journal of Orthopaedic Research, 2014, 32, 238-244.	2.3	56
14	Osteogenic differentiation of preosteoblasts on a hemostatic gelatin sponge. Scientific Reports, 2016, 6, 32884.	3.3	56
15	The effect of sagittal alignment on adjacent joint mobility after lumbar instrumentationâ€“â€“a biomechanical study of lumbar vertebrae in a porcine model. Clinical Biomechanics, 2004, 19, 763-768.	1.2	54
16	Early surgery with antibiotics treatment had better clinical outcomes than antibiotics treatment alone in patients with pyogenic spondylodiscitis: a retrospective cohort study. BMC Musculoskeletal Disorders, 2017, 18, 175.	1.9	53
17	Chemical and physical properties of bone cement for vertebroplasty. Biomedical Journal, 2013, 36, 162.	3.1	50
18	Percutaneous endoscopic discectomy and drainage for infectious spondylitis. International Orthopaedics, 2007, 31, 367-373.	1.9	48

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19	Correlation of blood bone turnover biomarkers and Wnt signaling antagonists with AS, DISH, OPLL, and OYL. BMC Musculoskeletal Disorders, 2017, 18, 61.	1.9	39
20	Increased periostin gene expression in degenerative intervertebral disc cells. Spine Journal, 2013, 13, 289-298.	1.3	38
21	Coactivation of Endogenous Wnt10b and Foxc2 by CRISPR Activation Enhances BMSC Osteogenesis and Promotes Calvarial Bone Regeneration. Molecular Therapy, 2020, 28, 441-451.	8.2	37
22	Cement leakage causes potential thermal injury in vertebroplasty. BMC Musculoskeletal Disorders, 2011, 12, 116.	1.9	36
23	Beneficial effects of hyperbaric oxygen on human degenerated intervertebral disk cells via suppression of ILâ€1Î² and p38 MAPK signal. Journal of Orthopaedic Research, 2011, 29, 14-19.	2.3	34
24	Risk factors of neurological deficit and pulmonary cement embolism after percutaneous vertebroplasty. Journal of Orthopaedic Surgery and Research, 2019, 14, 406.	2.3	34
25	In Situ Selfâ€Assembling Micellar Depots that Can Actively Trap and Passively Release NO with Longâ€Lasting Activity to Reverse Osteoporosis. Advanced Materials, 2018, 30, e1705605.	21.0	33
26	Biomechanical comparison of pedicle screw fixation strength in synthetic bones: Effects of screw shape, core/thread profile and cement augmentation. PLoS ONE, 2020, 15, e0229328.	2.5	32
27	Self-assisted wound healing using piezoelectric and triboelectric nanogenerators. Science and Technology of Advanced Materials, 2022, 23, 1-16.	6.1	32
28	Percutaneous vertebroplasty for pathological vertebral compression fractures secondary to multiple myeloma. Archives of Orthopaedic and Trauma Surgery, 2012, 132, 759-764.	2.4	31
29	Complications associated with instrumented lumbar surgery in patients with liver cirrhosis: a matched cohort analysis. Spine Journal, 2013, 13, 908-913.	1.3	31
30	Cage positioning as a risk factor for posterior cage migration following transforaminal lumbar interbody fusion â€“ an analysis of 953 cases. BMC Musculoskeletal Disorders, 2019, 20, 260.	1.9	31
31	Use of fluorescence labeled mesenchymal stem cells in pluronic F127 and porous hydroxyapatite as a bone substitute for posterolateral spinal fusion. Journal of Orthopaedic Research, 2009, 27, 1631-1636.	2.3	30
32	Hyperbaric oxygen treatment suppresses MAPK signaling and mitochondrial apoptotic pathway in degenerated human intervertebral disc cells. Journal of Orthopaedic Research, 2013, 31, 204-209.	2.3	29
33	Mesenchymal stem cells expressing baculovirus-engineered BMP-2 and VEGF enhance posterolateral spine fusion in a rabbit model. Spine Journal, 2015, 15, 2036-2044.	1.3	29
34	Percutaneous endoscopic debridement and drainage in immunocompromised patients with complicated infectious spondylitis. Minimally Invasive Therapy and Allied Technologies, 2010, 19, 42-47.	1.2	28
35	Combined anterior lumbar interbody fusion and instrumented posterolateral fusion for degenerative lumbar scoliosis: indication and surgical outcomes. BMC Surgery, 2015, 15, 26.	1.3	28
36	BMP-2 gene transfection of bone marrow stromal cells to induce osteoblastic differentiation in a rat calvarial defect model. Materials Science and Engineering C, 2018, 91, 806-816.	7.3	28

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37	Inferior Vena Cava Syndrome Following Percutaneous Vertebroplasty With Polymethylmethacrylate. Spine, 2008, 33, E329-E333.	2.0	27
38	Thoracic ossified meningioma and osteoporotic burst fracture: treatment with combined vertebroplasty and laminectomy without instrumentation. Journal of Neurosurgery: Spine, 2006, 4, 256-259.	1.7	25
39	Novel thermosensitive hydrogels based on methoxy polyethylene glycol-co-poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66 Medicine, 2014, 10, 553-560.	3.3	24
40	A poloxamer-polypeptide thermosensitive hydrogel as a cell scaffold and sustained release depot. Polymer Chemistry, 2016, 7, 2976-2985.	3.9	24
41	Effect of Postoperative Lumbar Sagittal Alignment on the Development of Adjacent Instability. Journal of Spinal Disorders and Techniques, 2004, 17, 353-357.	1.9	23
42	A Biomechanical Comparison of Expansive Pedicle Screws for Severe Osteoporosis: The Effects of Screw Design and Cement Augmentation. PLoS ONE, 2015, 10, e0146294.	2.5	23
43	Unplanned revision spinal surgery within a week: a retrospective analysis of surgical causes. BMC Musculoskeletal Disorders, 2016, 17, 28.	1.9	21
44	Incorporation of surface-modified hydroxyapatite into poly(methyl methacrylate) to improve biological activity and bone ingrowth. Royal Society Open Science, 2019, 6, 182060.	2.4	21
45	A head-to-head comparison of the degradation rate of resorbable bioceramics. Materials Science and Engineering C, 2020, 106, 110175.	7.3	21
46	Upregulation of miR-107 expression following hyperbaric oxygen treatment suppresses HMGB1/RAGE signaling in degenerated human nucleus pulposus cells. Arthritis Research and Therapy, 2019, 21, 42.	3.5	20
47	Postoperative anterior spondylodiscitis after posterior pedicle screw instrumentation. Spine Journal, 2011, 11, 24-29.	1.3	19
48	The influences of polycaprolactone-grafted nanoparticles on the properties of polycaprolactone composites with enhanced osteoconductivity. Composites Science and Technology, 2013, 83, 64-71.	7.8	19
49	Validity of poly(1, 6â€bisâ€(pâ€carboxyphenoxy hexane)â€coâ€(sebacic anhydride)) copolymer in biomedical application. Journal of Applied Polymer Science, 2013, 128, 3687-3695.	2.6	19
50	Paper-based CRP Monitoring Devices. Scientific Reports, 2016, 6, 38171.	3.3	19
51	Biomimetic Engineering of a Scavengerâ€Free Nitric Oxideâ€Generating/Delivering System to Enhance Radiation Therapy. Small, 2020, 16, e2000655.	10.0	19
52	Spinal Ganglioneuroma Mimicking Adolescent Idiopathic Scoliosis. Pediatric Neurosurgery, 2005, 41, 216-219.	0.7	18
53	Glial cell line-derived neurotrophic factor gene delivery via a polyethylene imine grafted chitosan carrier. International Journal of Nanomedicine, 2014, 9, 3163.	6.7	18
54	Application of two-parameter scoliometer values for predicting scoliotic Cobb angle. BioMedical Engineering OnLine, 2017, 16, 136.	2.7	18

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55	Biphasic ceramic bone graft with biphasic degradation rates. Materials Science and Engineering C, 2021, 118, 111421.	7.3	18
56	Growth factorâ€loaded microspheres in <scp>mPEG</scp>â€polypeptide hydrogel system for articular cartilage repair. Journal of Biomedical Materials Research - Part A, 2021, 109, 2516-2526.	4.0	18
57	Surgical treatment of infectious spondylitis in patients undergoing hemodialysis therapy. European Spine Journal, 2010, 19, 2223-2228.	2.2	16
58	Modification of Mechanical Properties, Polymerization Temperature, and Handling Time of Polymethylmethacrylate Cement for Enhancing Applicability in Vertebroplasty. BioMed Research International, 2016, 2016, 1-8.	1.9	16
59	InÂvitro degradation study of polyanhydride copolymers / surface grafted hydroxyapatite composites for bone tissue application. Polymer Degradation and Stability, 2017, 140, 136-146.	5.8	15
60	Manipulation of the degradation behavior of calcium sulfate by the addition of bioglass. Progress in Biomaterials, 2019, 8, 115-125.	4.5	15
61	Biomechanical study of the fixation stability of broken pedicle screws and subsequent strategies. PLoS ONE, 2019, 14, e0219189.	2.5	15
62	Use of longer sized screws is a salvage method for broken pedicles in osteoporotic vertebrae. Scientific Reports, 2020, 10, 10441.	3.3	15
63	Optimizing an Injectable Composite Oxygen-Generating System for Relieving Tissue Hypoxia. Frontiers in Bioengineering and Biotechnology, 2020, 8, 511.	4.1	15
64	Appropriate duration of post-surgical intravenous antibiotic therapy for pyogenic spondylodiscitis. BMC Infectious Diseases, 2018, 18, 468.	2.9	14
65	Enhanced mechanical and biological performances of CaO-MgO-SiO2 glass-ceramics via the modulation of glass and ceramic phases. Materials Science and Engineering C, 2021, 124, 112060.	7.3	14
66	Effects of Strontium Ranelate on Spinal Interbody Fusion Surgery in an Osteoporotic Rat Model. PLoS ONE, 2017, 12, e0167296.	2.5	14
67	Clinical outcomes of revision lumbar spinal surgery: 124 patients with a minimum of two years of follow-up. Chang Gung Medical Journal, 2002, 25, 175-82.	0.7	14
68	Addition of a small amount of glass to improve the degradation behavior of calcium sulfate bioceramic. Ceramics International, 2015, 41, 1155-1162.	4.8	13
69	Surgical outcomes of infectious spondylitis after vertebroplasty, and comparisons between pyogenic and tuberculosis. BMC Infectious Diseases, 2018, 18, 555.	2.9	13
70	Fabrication and evaluation of electroplated Niâ€“diamond and Niâ€“Bâ€“diamond milling tools with a high density of diamond particles. International Journal of Advanced Manufacturing Technology, 2019, 104, 2981-2989.	3.0	13
71	Center of pressure progression patterns during level walking in adolescents with idiopathic scoliosis. PLoS ONE, 2019, 14, e0212161.	2.5	13
72	A Retrospective Analysis in 1347 Patients Undergoing Cement Augmentation for Osteoporotic Vertebral Compression Fracture: Is the Sandwich Vertebra at a Higher Risk of Further Fracture?. Neurosurgery, 2020, 88, 342-348.	1.1	13

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73	From 3D printing to 3D bioprinting: the material properties of polymeric material and its derived bioink for achieving tissue specific architectures. Cell and Tissue Banking, 2022, 23, 417-440.	1.1	13
74	Novel MRI-based vertebral bone quality score as a predictor of cage subsidence following transforaminal lumbar interbody fusion. Journal of Neurosurgery: Spine, 2022, 37, 654-662.	1.7	13
75	Effect of Postural Control Demands on Early Visual Evoked Potentials during a Subjective Visual Vertical Perception Task in Adolescents with Idiopathic Scoliosis. Frontiers in Human Neuroscience, 2017, 11, 326.	2.0	12
76	Surgical risks and perioperative complications of instrumented lumbar surgery in patients with liver cirrhosis. Biomedical Journal, 2014, 37, 18.	3.1	12
77	Minimally invasive treatment of osteoporotic vertebral compression fracture. Chang Gung Medical Journal, 2004, 27, 261-7.	0.7	12
78	Surgical treatment of spinal pseudoarthrosis in ankylosing spondylitis. Chang Gung Medical Journal, 2005, 28, 621-8.	0.7	12
79	Biomechanical comparison of different combinations of hook and screw in one spine motion unit - an experiment in porcine model. BMC Musculoskeletal Disorders, 2014, 15, 197.	1.9	11
80	Posterior Instrumented Lumbar Spinal Surgery in Uremic Patients Under Maintenance Hemodialysis. Spine, 2011, 36, 660-666.	2.0	10
81	A biomechanical investigation of different screw head designs for vertebral derotation in scoliosis surgery. Spine Journal, 2017, 17, 1171-1179.	1.3	10
82	A Feasibility Study Regarding the Potential Use of Silica-Doped Calcium Sulfate Anhydrite as a Bone Void Filler. Journal of Medical and Biological Engineering, 2017, 37, 879-886.	1.8	10
83	Additional vertebral augmentation with posterior instrumentation for unstable thoracolumbar burst fractures. Injury, 2017, 48, 1806-1812.	1.7	10
84	Long-term in vitro degradation and in vivo evaluation of resorbable bioceramics. Journal of Materials Science: Materials in Medicine, 2021, 32, 13.	3.6	10
85	Cytotoxicity and cell response of preosteoblast in calcium sulfate-augmented PMMA bone cement. Biomedical Materials (Bristol), 2021, 16, 055014.	3.3	10
86	Surgical treatment for giant cell tumor of the thoracolumbar spine. Chang Gung Medical Journal, 2006, 29, 71-8.	0.7	10
87	Intracorporal bone grafting for vertebral compression fractures with intraosseous vacuum phenomenon. International Orthopaedics, 2004, 28, 52-55.	1.9	9
88	Hypothermic manipulation of bone cement can extend the handling time during vertebroplasty. BMC Musculoskeletal Disorders, 2012, 13, 198.	1.9	9
89	Mechanotransduction in intervertebral discs. Journal of Cellular and Molecular Medicine, 2014, 18, 2351-2360.	3.6	9
90	Effect of precursor baking on the electrochemical properties of IrO2-Ta2O5/Ti anodes. Surface and Coatings Technology, 2018, 350, 896-903.	4.8	9

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91	Cell migration of preosteoblast cells on a clinical gelatin sponge for 3D bone tissue engineering. Biomedical Materials (Bristol), 2020, 15, 015005.	3.3	9
92	Distal Junctional Kyphosis after Posterior Spinal Fusion in Lenke 1 and 2 Adolescent Idiopathic Scoliosis-Exploring Detailed Features of the Sagittal Stable Vertebra Concept. Global Spine Journal, 2023, 13, 1112-1119.	2.3	9
93	The effect of interspinous ligament integrity on adjacent segment instability after lumbar instrumentation and laminectomy--an experimental study in porcine model. Bio-Medical Materials and Engineering, 2006, 16, 261-7.	0.6	9
94	Increased sulfatase 1 gene expression in degenerative intervertebral disc cells. Journal of Orthopaedic Research, 2015, 33, 312-317.	2.3	8
95	Is additional balloon Kyphoplasty safe and effective for acute thoracolumbar burst fracture?. BMC Musculoskeletal Disorders, 2017, 18, 393.	1.9	8
96	Bone regeneration in Ds-Red pig calvarial defect using allogenic transplantation of EGFP-pMSCs â€“ A comparison of host cells and seeding cells in the scaffold. PLoS ONE, 2019, 14, e0215499.	2.5	8
97	The correlations between the anchor density and the curve correction of adolescent idiopathic scoliosis surgery. BMC Musculoskeletal Disorders, 2019, 20, 497.	1.9	8
98	Fabrication and evaluation of electroplated diamond grinding rods strengthened with Cr-C deposit. International Journal of Advanced Manufacturing Technology, 2020, 110, 2541-2550.	3.0	8
99	Tuberculous spondylitis after percutaneous vertebroplasty: A case series of 9 cases. Biomedical Journal, 2019, 42, 285-292.	3.1	7
100	Influence of lumbar curvature and rotation on forward flexibility in idiopathic scoliosis. Biomedical Journal, 2014, 37, 78.	3.1	7
101	Is Convex Derotation Equally Effective as Concave Derotation for Achieving Adequate Correction of Selective Lenkeâ€™s Type- 1 Scoliosis?. Indian Journal of Orthopaedics, 2018, 52, 363-368.	1.1	7
102	Biomechanical Comparison of Fixation Stability among Various Pedicle Screw Geometries: Effects of Screw Outer/Inner Projection Shape and Thread Profile. Applied Sciences (Switzerland), 2021, 11, 9901.	2.5	7
103	Intervertebral disc herniation in adolescents. Chang Gung Medical Journal, 2004, 27, 22-8.	0.7	7
104	Anterior cervical spinal surgery for multilevel cervical myelopathy. Chang Gung Medical Journal, 2004, 27, 531-41.	0.7	7
105	Characterization of a novel caudal vertebral interbody fusion in a rat tail model: An implication for future material and mechanical testing. Biomedical Journal, 2017, 40, 62-68.	3.1	6
106	Effect of physical and chemical characteristics on the washout resistance of calcium sulfate pellets. Ceramics International, 2018, 44, 8934-8939.	4.8	6
107	Percutaneous Balloon Kyphoplasty and Short Instrumentation Compared with Traditional Long Instrumentation for Thoracolumbar Metastatic Spinal Cord Compression. World Neurosurgery, 2019, 130, e640-e647.	1.3	6
108	From phase diagram to the design of strontium-containing carrier. Journal of Asian Ceramic Societies, 2020, 8, 677-684.	2.3	6

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109	Development of bioactive thermosensitive polymerâ€“ceramic composite as bone substitute. Chemical Engineering Science, 2013, 89, 133-141.	3.8	5
110	Comparison between harvesting and preserving the spinous process for adolescent idiopathic scoliosis. BMC Musculoskeletal Disorders, 2016, 17, 366.	1.9	5
111	Correlation between zoledronic acid infusion and repeat vertebroplasty surgery in osteoporotic patients. Current Medical Research and Opinion, 2016, 32, 921-927.	1.9	5
112	Controlled Release of Strontium through Neutralization Reaction within a Methoxy(Polyethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	5
113	Bi-directional gene activation and repression promote ASC differentiation and enhance bone healing in osteoporotic rats. Molecular Therapy, 2022, 30, 92-104.	8.2	5
114	Adjacent instability after instrumented lumbar fusion. Chang Gung Medical Journal, 2003, 26, 792-8.	0.7	5
115	Anneal-Hardening Behavior of Cr-Fe-C Alloy Deposits Prepared in a Cr3+-Based Bath with Fe2+ Ions. Materials, 2017, 10, 1392.	2.9	4
116	Radiation dose for pediatric scoliosis patients undergoing whole spine radiography: Effect of the radiographic length in an auto-stitching digital radiography system. European Journal of Radiology, 2018, 108, 99-106.	2.6	4
117	A biomechanical investigation of the retentive force of pedicle screw structures for different screw tulip designs. Clinical Biomechanics, 2019, 70, 23-30.	1.2	4
118	Effect of Cu and Ni Undercoatings on the Electrochemical Corrosion Behaviour of Crâ€“C-Coated Steel Samples in 0.1 M H2SO4 Solution with 1 g/L NaCl. Coatings, 2019, 9, 531.	2.6	4
119	Mir-573 regulates cell proliferation and apoptosis by targeting Bax in human degenerative disc cells following hyperbaric oxygen treatment. Journal of Orthopaedic Surgery and Research, 2021, 16, 16.	2.3	4
120	Delayed Massive Pleural Effusion After Scoliosis Correction and Thoracoplasty: A Case Report. Journal of Trauma, 2006, 61, 746-748.	2.3	3
121	Treating C1-2 subluxation with transarticular screw and posterior atlantoaxial fusionâ€”A 5-year experience. Formosan Journal of Musculoskeletal Disorders, 2011, 2, 125-130.	0.2	3
122	Factors related to post surgical neurologic improvement for cervical spine infection. Biomedical Journal, 2018, 41, 306-313.	3.1	3
123	Pyogenic spondylitis presenting with skip lesions. Chang Gung Medical Journal, 2005, 28, 651-6.	0.7	3
124	Cre/LoxP Genetic Recombination Sustains Cartilage Anabolic Factor Expression in Hyaluronan Encapsulated MSCs Alleviates Intervertebral Disc Degeneration. Biomedicines, 2022, 10, 555.	3.2	3
125	Improved fixation stability for repairing pedicle screw loosening using a modified cement filling technique in porcine vertebrae. Scientific Reports, 2022, 12, 2739.	3.3	3
126	High viscosity bone cement vertebroplasty versus low viscosity bone cement vertebroplasty in the treatment of mid-high thoracic vertebral compression fractures. Spine Journal, 2022, 22, 524-534.	1.3	3

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127	Predicting pullout strength of pedicle screws in broken bones from X-ray images. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 134, 105366.	3.1	3
128	BIOMECHANICAL EVALUATION OF LOW-MODULUS BONE CEMENT FOR ENHANCING APPLICABILITY IN VERTEBROPLASTY â€" AN EXPERIMENTAL STUDY IN PORCINE MODEL. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850002.	0.6	2
129	In Vitro Biomechanical Validation of a Self-Adaptive Ratchet Growing Rod Construct for Fusionless Scoliosis Correction. Spine, 2019, 44, E1231-E1240.	2.0	2
130	Biphasic bone graft prepared using a gel-foaming technique. Ceramics International, 2021, 47, 7805-7813.	4.8	2
131	Early detection and intervention for acute perforated peptic ulcer after elective spine surgeries: a review of 13 cases from 24,026 patients. BMC Musculoskeletal Disorders, 2021, 22, 548.	1.9	2
132	Comparison of Fusion Rates between Autologous Iliac Bone Graft and Calcium Sulfate with Laminectomy Bone Chips in Multilevel Posterolateral Spine Fusion. Open Journal of Orthopedics, 2013, 03, 119-127.	0.1	2
133	Transformation from calcium sulfate to calcium phosphate in biological environment. Journal of Materials Science: Materials in Medicine, 2021, 32, 146.	3.6	2
134	Autonomic dysreflexia triggered by an unstable lumbar spine in a quadriplegic patient. Chang Gung Medical Journal, 2005, 28, 508-11.	0.7	2
135	Polyanhydride copolymer and bioceramic composites as bone substitutes. Formosan Journal of Musculoskeletal Disorders, 2013, 4, 6-10.	0.2	1
136	THE BIOMECHANICAL EFFECTS OF CEMENT AUGMENTATION AND PARTIAL VERTEBRAL HEIGHT RESTORATION ON THE LOAD TRANSFER CHANGE OF ADJACENT VERTEBRAE IN VERTEBROPLASTY. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550025.	0.7	1
137	BIOMECHANICAL STUDY OF PEDICLE SCREW FIXATION STRENGTH: ASSOCIATION OF SCREW MALPOSITION AND SCREW INSERTION TORQUE. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940012.	0.7	1
138	Biomechanical Comparison of Lumbar Motion Unit Stability Following Posterior Instrumentation with Facet Spacers and Facet Screws. Journal of Medical and Biological Engineering, 2020, 40, 220-229.	1.8	1
139	In Reply: A Retrospective Analysis in 1347 Patients Undergoing Cement Augmentation for Osteoporotic Vertebral Compression Fracture: Is the Sandwich Vertebra at a Higher Risk of Further Fracture?. Neurosurgery, 2021, 88, E564-E565.	1.1	1
140	Cement bridging phenomenon in percutaneous vertebroplasty for adjacent vertebral compression fracture. Scientific Reports, 2021, 11, 10184.	3.3	1
141	Risk Factors of Coexisting Septic Spondylitis and Arthritis: A Case-Control Study in a Tertiary Referral Hospital. Journal of Clinical Medicine, 2021, 10, 5345.	2.4	1
142	Strontium sintered calcium sulfate bone graft for enhancing osteogenesis in a rat femoral defect model. Materials Today Communications, 2022, 30, 103050.	1.9	1
143	Novel Dual-Threaded Pedicle Screws Provide Fixation Stability That Is Comparable to That of Traditional Screws with Relative Bone Preservation: An In Vitro Biomechanical Study. Applied Sciences (Switzerland), 2022, 12, 6172.	2.5	1
144	Clinical and radiographic outcome of pillow reduction prior to vertebroplasty on patients with vertebral compression fracture. Formosan Journal of Musculoskeletal Disorders, 2013, 4, 33-37.	0.2	0

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145	Plasmid BMP-2â€“embedded gelatin sponge as a gene-activated matrix for preosteoblast differentiation. Journal of Drug Delivery Science and Technology, 2019, 53, 101129.	3.0	0
146	INVESTIGATION INTO WHETHER OR NOT PMMA BONE CEMENT TRANSPEDICULAR SCREW AUGMENTATION STABILIZES PEDICLE SCREW LOOSENING. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940024.	0.7	0
147	Anneal-hardening behaviour of Cr C, Cr Ni C and Cr Ni Fe C alloy deposits. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 543-548.	5.3	0
148	Radiation Therapy: Biomimetic Engineering of a Scavengerâ€Free Nitric Oxideâ€Generating/Delivering System to Enhance Radiation Therapy (Small 23/2020). Small, 2020, 16, 2070126.	10.0	0
149	Attachment and migration of cells on porous bone graft. Journal of the American Ceramic Society, 2021, 104, 1649-1654.	3.8	0
150	The Role of Supraspinatous Ligament Integrity on Adjacent Segment Instability after Lumbar Instrumentation and Laminectomy : A Biomechanical Study in Porcine Model(Spine Mechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 197-198.	0.0	0
151	LATEST ADVANCES IN MINIMALLY INVASIVE SPINE SURGERY FOR TREATMENT OF INFECTIOUS SPONDYLITIS. Journal of Musculoskeletal Research, 0, , .	0.2	0
152	Percutaneous Endoscopic Interbody Debridement and Fusion (PEIDF) Decreases Risk of Sepsis and Mortality in Treating Infectious Spondylodiscitis for Patients with Poor Physical Status, a Retrospective Cohort Study. Biomedicines, 2022, 10, 1659.	3.2	0