

# Zhongqiang Chen

## List of Publications by Year in descending order

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74  
papers

1,135  
citations

394421

19  
h-index

477307

29  
g-index

91  
all docs

91  
docs citations

91  
times ranked

826  
citing authors

#	ARTICLE	IF	CITATIONS
1	COL6A1 Polymorphisms Associated With Ossification of the Ligamentum Flavum and Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2007, 32, 2834-2838.	2.0	92
2	The Frequency and Treatment of Dural Tears and Cerebrospinal Fluid Leakage in 266 Patients With Thoracic Myelopathy Caused by Ossification of the Ligamentum Flavum. <i>Spine</i> , 2012, 37, E702-E707.	2.0	77
3	Clinical Features of Thoracic Spinal Stenosis-associated Myelopathy. <i>Clinical Spine Surgery</i> , 2016, 29, 86-89.	1.3	76
4	Osterix is a key target for mechanical signals in human thoracic ligament flavum cells. <i>Journal of Cellular Physiology</i> , 2007, 211, 577-584.	4.1	47
5	The prevalence and clinical characteristics of thoracic spinal stenosis: a systematic review. <i>European Spine Journal</i> , 2020, 29, 2164-2172.	2.2	47
6	Mechanistic Roles of Leptin in Osteogenic Stimulation in Thoracic Ligament Flavum Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 29958-29966.	3.4	46
7	MiR-132-3p Regulates the Osteogenic Differentiation of Thoracic Ligamentum Flavum Cells by Inhibiting Multiple Osteogenesis-Related Genes. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1370.	4.1	38
8	A systematic review of complications in thoracic spine surgery for ossification of ligamentum flavum. <i>Spinal Cord</i> , 2018, 56, 301-307.	1.9	35
9	A systematic review of complications in thoracic spine surgery for ossification of the posterior longitudinal ligament. <i>European Spine Journal</i> , 2017, 26, 1803-1809.	2.2	34
10	The involvement and possible mechanism of pro-inflammatory tumor necrosis factor alpha (TNF- $\alpha$ ) in thoracic ossification of the ligamentum flavum. <i>PLoS ONE</i> , 2017, 12, e0178986.	2.5	29
11	Effects of silicon additive as synergists of Mg(OH) <sub>2</sub> on the flammability of ethylene vinyl acetate copolymer. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3203-3209.	2.6	28
12	iTRAQ quantitative proteomic study in patients with thoracic ossification of the ligamentum flavum. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 834-839.	2.1	27
13	MiR-199b-5p inhibits osteogenic differentiation in ligamentum flavum cells by targeting JAG1 and modulating the Notch signalling pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1159-1170.	3.6	27
14	Two novel BMP-2 variants identified in patients with thoracic ossification of the ligamentum flavum. <i>European Journal of Human Genetics</i> , 2017, 25, 565-571.	2.8	26
15	Genetic differences in osteogenic differentiation potency in the thoracic ossification of the ligamentum flavum under cyclic mechanical stress. <i>International Journal of Molecular Medicine</i> , 2017, 39, 135-143.	4.0	26
16	Degenerative lumbar scoliosis patients with proximal junctional kyphosis have lower muscularity, fatty degeneration at the lumbar area. <i>European Spine Journal</i> , 2021, 30, 1133-1143.	2.2	24
17	The effect of paraspinal muscle on functional status and recovery in patients with lumbar spinal stenosis. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 235.	2.3	22
18	Analysis of Global Sagittal Postural Patterns in Asymptomatic Chinese Adults. <i>Asian Spine Journal</i> , 2016, 10, 282.	2.0	21

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19	Notch signaling pathways in human thoracic ossification of the ligamentum flavum. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1481-1491.	2.3	21
20	Targeted next-generation sequencing reveals multiple deleterious variants in OPLL-associated genes. <i>Scientific Reports</i> , 2016, 6, 26962.	3.3	21
21	Comparison Between Stable Sagittal Vertebra and First Lordotic Vertebra Instrumentation for Prevention of Distal Junctional Kyphosis in Scheuermann Disease. <i>Clinical Spine Surgery</i> , 2019, 32, 330-336.	1.3	20
22	Incidence, Risk, and Outcome of Pedicle Screw Loosening in Degenerative Lumbar Scoliosis Patients Undergoing Long-Segment Fusion. <i>Global Spine Journal</i> , 2023, 13, 1064-1071.	2.3	19
23	Apical segmental resection osteotomy with dual axial rotation corrective technique for severe focal kyphosis of the thoracolumbar spine. <i>Journal of Neurosurgery: Spine</i> , 2011, 14, 106-113.	1.7	18
24	Genome-wide DNA methylation profile analysis in thoracic ossification of the ligamentum flavum. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8753-8762.	3.6	18
25	MiR-490-3p inhibits osteogenic differentiation in thoracic ligamentum flavum cells by targeting FOXO1. <i>International Journal of Biological Sciences</i> , 2018, 14, 1457-1465.	6.4	15
26	&lt;p&gt;Trends of surgical treatment for spinal degenerative disease in China: a cohort of 37,897 inpatients from 2003 to 2016&lt;/p&gt;. <i>Clinical Interventions in Aging</i> , 2019, Volume 14, 361-366.	2.9	14
27	A radical procedure of circumferential spinal cord decompression through a modified posterior approach for thoracic myelopathy caused by severely impinging anterior ossification. <i>Spine Journal</i> , 2014, 14, 651-658.	1.3	13
28	One-staged combined decompression for the patients with cervico-thoracic tandem spinal stenosis. <i>European Spine Journal</i> , 2017, 26, 374-381.	2.2	13
29	The relationship of symptomatic thoracolumbar disc herniation and Scheuermann's disease. <i>European Spine Journal</i> , 2014, 23, 1059-1066.	2.2	12
30	Angiopoietin-2 promotes osteogenic differentiation of thoracic ligamentum flavum cells via modulating the Notch signaling pathway. <i>PLoS ONE</i> , 2018, 13, e0209300.	2.5	12
31	Risk factors for screw loosening in patients with adult degenerative scoliosis: the importance of paraspinal muscle degeneration. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 448.	2.3	12
32	Circumspinal decompression and fusion through a posterior midline incision to treat central calcified thoracolumbar disc herniation: a minimal 2-year follow-up study with reconstruction CT. <i>European Spine Journal</i> , 2014, 23, 373-381.	2.2	11
33	Ultrasonic bone scalpel for thoracic spinal decompression: case series and technical note. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 309.	2.3	11
34	Cerebrospinal Fluid Leakage after Surgeries on the Thoracic Spine: A Review of 362 Cases. <i>Asian Spine Journal</i> , 2016, 10, 472.	2.0	11
35	Percutaneous Kyphoplasty Versus Percutaneous Vertebroplasty for Neurologically Intact Osteoporotic Kyphosis Disease: A Systematic Review and Meta-Analysis. <i>Global Spine Journal</i> , 2022, 12, 308-322.	2.3	10
36	Incidence and Risk Factors for Symptomatic Spinal Epidural Hematoma Following Posterior Thoracic Spinal Surgery in a Single Institute. <i>Global Spine Journal</i> , 2020, , 219256822097914.	2.3	10

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37	Cervical Ossification of Ligamentum Flavum: Elaborating an Underappreciated but Occasional Contributor to Myeloradiculopathy in Aging Population Based on Synthesis of Individual Participant Data. <i>Clinical Interventions in Aging</i> , 2021, Volume 16, 897-908.	2.9	9
38	Bioinformatics analysis for the identification of key genes and long non-coding RNAs related to bone metastasis in breast cancer. <i>Aging</i> , 2021, 13, 17302-17315.	3.1	8
39	Posterior corrective surgery for moderate to severe focal kyphosis in the thoracolumbar spine: 57 cases with minimum 3 years follow-up. <i>European Spine Journal</i> , 2017, 26, 1833-1841.	2.2	7
40	The diagnostic accuracy of CT-based "Banner cloud sign" for dural ossification in patients with thoracic ossification of the ligamentum flavum: a prospective, blinded, diagnostic accuracy study protocol. <i>Annals of Translational Medicine</i> , 2020, 8, 1606-1606.	1.7	7
41	"IV+V+VI" Circumferential Decompression Technique for Thoracic Myelopathy Caused by the Ossification of Posterior Longitudinal Ligament or Hard Disc Herniation. <i>Spine</i> , 2020, 45, 1605-1612.	2.0	7
42	Banner cloud sign: a novel method for the diagnosis of dural ossification in patients with thoracic ossification of the ligamentum flavum. <i>European Spine Journal</i> , 2022, 31, 1719-1727.	2.2	7
43	Risk Factors Associated With Failure to Reach Minimal Clinically Important Difference After Correction Surgery in Patients With Degenerative Lumbar Scoliosis. <i>Spine</i> , 2020, 45, E1669-E1676.	2.0	6
44	Surgical strategy for non-continuous thoracic spinal stenosis: one- or two-stage surgery?. <i>International Orthopaedics</i> , 2021, 45, 1871-1880.	1.9	6
45	Risk factors associated with post-operative neurological deterioration in patients with thoracic disc disorders with myelopathy. <i>International Orthopaedics</i> , 2021, 45, 1539-1547.	1.9	6
46	Dysregulation of MicroRNAs in Hypertrophy and Ossification of Ligamentum Flavum: New Advances, Challenges, and Potential Directions. <i>Frontiers in Genetics</i> , 2021, 12, 641575.	2.3	6
47	Association analysis and functional study of COL6A1 single nucleotide polymorphisms in thoracic ossification of the ligamentum flavum in the Chinese Han population. <i>European Spine Journal</i> , 2021, 30, 2782-2790.	2.2	6
48	Delayed Onset Postoperative Spinal Epidural Hematoma after Lumbar Spinal Surgery: Incidence, Risk Factors, and Clinical Outcomes. <i>BioMed Research International</i> , 2020, 2020, 1-8.	1.9	6
49	LGR5 regulates osteogenic differentiation of human thoracic ligamentum flavum cells by Wnt signalling pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 3862-3872.	3.6	6
50	Progressive pseudorheumatoid dysplasia confirmed by whole-exon sequencing in a Chinese adult before corrective surgery. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 16.	2.3	5
51	Vaspin deficiency failed to promote the proliferation of BMSCs in osteoarthritis. <i>International Journal of Rheumatic Diseases</i> , 2021, 24, 90-95.	1.9	5
52	Radiographic and clinical features of thoracic disk disease associated with myelopathy: a retrospective analysis of 257 cases. <i>European Spine Journal</i> , 2021, 30, 2211-2220.	2.2	5
53	A new "tension"-guided surgical strategy for multilevel ossification of posterior longitudinal ligament in thoracic spine: a prospective observational study with at least 3-year follow-up. <i>Spine Journal</i> , 2022, 22, 1388-1398.	1.3	5
54	Relationships between Paraspinal Muscle and Spinopelvic Sagittal Balance in Patients with Lumbar Spinal Stenosis. <i>Orthopaedic Surgery</i> , 2022, 14, 1093-1099.	1.8	5

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55	Deciphering Obesity-Related Gene Clusters Unearths SOCS3 Immune Infiltrates and 5mC/m6A Modifiers in Ossification of Ligamentum Flavum Pathogenesis. <i>Frontiers in Endocrinology</i> , 2022, 13, .	3.5	5
56	Evaluation of lumbar stiffness after long-level fusion for degenerative lumbar scoliosis via a chinese version of the lumbar stiffness disability index. <i>Spine Journal</i> , 2021, 21, 1881-1889.	1.3	4
57	Polymicrobial and Monomicrobial Infections after Spinal Surgery: A Retrospective Study to Determine which Infection is more Severe. <i>Asian Spine Journal</i> , 2017, 11, 427-436.	2.0	4
58	Potential Value of Matrix Metalloproteinase-13 as a Biomarker for Osteoarthritis. <i>Frontiers in Surgery</i> , 2021, 8, 750047.	1.4	4
59	Resurfacing hemiarthroplasty versus stemmed hemiarthroplasty for glenohumeral osteoarthritis: a meta-analysis. <i>Arthroplasty</i> , 2020, 2, 25.	2.2	3
60	Comparison of Anterior Approach and Posterior Circumspinal Decompression in the Treatment of Giant Thoracic Discs. <i>Global Spine Journal</i> , 2023, 13, 17-24.	2.3	2
61	Comparison of Surgical Outcomes Between Staged and Simultaneous Decompression of Discontinuous Thoracic Ossification of the Ligamentum Flavum: A Retrospective Study. <i>World Neurosurgery</i> , 2021, 154, e529-e535.	1.3	2
62	Decompression alone versus decompression with instrumented fusion for young patients with single-level lumbar disc herniation: a short-term prospective comparative study. <i>Chinese Medical Journal</i> , 2014, 127, 2037-42.	2.3	2
63	Cervical sagittal alignment in adolescent high dysplastic developmental spondylolisthesis: how does the cervical spine respond to the reduction of spondylolisthesis?. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 243.	2.3	1
64	Association Between Clinical Symptoms and Radiographic Features in Late-Stage Knee Osteoarthritis Using a New Radiographic Parameter. <i>Pain Medicine</i> , 2021, 22, 1539-1547.	1.9	1
65	Cost-Benefit Analysis of Using A Single Dose of Tranexamic Acid in Degenerative Lumbar Scoliosis Patients Undergoing Long-Segment Spinal Fusion Surgery: A Retrospective Study. <i>Medical Science Monitor</i> , 2021, 27, e930352.	1.1	1
66	Integrating Bioinformatic Strategies with Real-World Data to Infer Distinctive Immunocyte Infiltration Landscape and Immunologically Relevant Transcriptome Fingerprints in Ossification of Ligamentum Flavum. <i>Journal of Inflammation Research</i> , 2021, Volume 14, 3665-3685.	3.5	1
67	Pseudomeningocele—a rare complication following thoracic spinal decompression surgery: clinical features, treatment guidelines, technical notes, and evaluation of results. <i>International Orthopaedics</i> , 2021, 45, 2609-2618.	1.9	1
68	Effects of the posterior cruciate ligament and tibia insert thickness on tibiofemoral joint pressure in total knee arthroplasty: a cadaveric study. <i>Annals of Translational Medicine</i> , 2021, 10, 0-0.	1.7	1
69	Impact of Diffuse Idiopathic Skeletal Hyperostosis on Clinico-Radiological Profiles and Prognosis for Thoracic Ossification of Ligamentum Flavum-Myelopathy: A Propensity-Matched Monocentric Analysis. <i>Diagnostics</i> , 2022, 12, 1652.	2.6	1
70	Analysis of Radiographic Spinopelvic Parameters in Patients With Degenerative Lumbar Kyphoscoliosis. <i>Geriatric Orthopaedic Surgery and Rehabilitation</i> , 2021, 12, 215145932110291.	1.4	0
71	Potential Link between Ossification of Nuchal Ligament and the Risk of Cervical Ossification of Posterior Longitudinal Ligament: Evidence and Clinical Implication from a Meta-Analysis of 8429 Participants. <i>Orthopaedic Surgery</i> , 2021, 13, 1055-1066.	1.8	0
72	Comparison between two types of "Scheuermann disease-like people": thoracolumbar disc herniation patients and healthy volunteers with radiological signs of Scheuermann's disease. <i>Chinese Medical Journal</i> , 2014, 127, 3862-6.	2.3	0

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73	Risk Factors and Three Radiological Predictor Models for the Progression of Proximal Junctional Kyphosis in Adult Degenerative Scoliosis Following Posterior Corrective Surgery: 113 Cases With 2-years Minimum Follow-Up. <i>Global Spine Journal</i> , 2022, , 219256822210797.	2.3	0
74	Scoliosis in dysplastic spondylolisthesis: a clinical survey of 50 young patients. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 335.	1.9	0