

Ming-Chau Chang

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,853
citations

304743

22
h-index

315739

38
g-index

115
all docs

115
docs citations

115
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficacy of Dilute Betadine Solution Irrigation in the Prevention of Postoperative Infection of Spinal Surgery. <i>Spine</i> , 2005, 30, 1689-1693.	2.0	204
2	Polymethylmethacrylate Augmentation of Pedicle Screw for Osteoporotic Spinal Surgery. <i>Spine</i> , 2008, 33, E317-E324.	2.0	145
3	Can povidone-iodine solution be used safely in a spinal surgery?. <i>European Spine Journal</i> , 2006, 15, 1005-1014.	2.2	118
4	Tuberculous Spondylitis and Pyogenic Spondylitis. <i>Spine</i> , 2006, 31, 782-788.	2.0	93
5	Risk Factors of Cage Subsidence in Patients Received Minimally Invasive Transforaminal Lumbar Interbody Fusion. <i>Spine</i> , 2020, 45, E1279-E1285.	2.0	67
6	Polymethylmethacrylate Augmentation of Cannulated Pedicle Screws for Fixation in Osteoporotic Spines and Comparison of its Clinical Results and Biomechanical Characteristics With the Needle Injection Method. <i>Journal of Spinal Disorders and Techniques</i> , 2013, 26, 305-315.	1.9	58
7	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
8	Intra-articular Injection of Tranexamic Acid Reduced Postoperative Hemarthrosis in Arthroscopic Anterior Cruciate Ligament Reconstruction: A Prospective Randomized Study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 2127-2132.	2.7	52
9	Fusion May Not Be a Necessary Procedure for Surgically Treated Burst Fractures of the Thoracolumbar and Lumbar Spines. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1724-1731.	3.0	51
10	Are intravertebral vacuum phenomena benign lesions?. <i>European Spine Journal</i> , 2011, 20, 1341-1348.	2.2	49
11	Is a drain tube necessary for minimally invasive lumbar spine fusion surgery?. <i>European Spine Journal</i> , 2017, 26, 733-737.	2.2	37
12	Clinical Experience Using a 3D-Printed Patient-Specific Instrument for Medial Opening Wedge High Tibial Osteotomy. <i>BioMed Research International</i> , 2018, 2018, 1-9.	1.9	37
13	Can a Deep-learning Model for the Automated Detection of Vertebral Fractures Approach the Performance Level of Human Subspecialists?. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 1598-1612.	1.5	36
14	Comparing the coracoclavicular loop technique with a hook plate for the treatment of distal clavicle fractures. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 224-230.	2.6	34
15	Risk factors for cut-out failure of Gamma3 nails in treating unstable intertrochanteric fractures: An analysis of 176 patients. <i>Journal of the Chinese Medical Association</i> , 2017, 80, 587-594.	1.4	33
16	Classification and citation analysis of the 100 top-cited articles on adult spinal deformity since 2011: A bibliometric analysis. <i>Journal of the Chinese Medical Association</i> , 2022, 85, 401-408.	1.4	33
17	Fluid-induced, shear stress-regulated extracellular matrix and matrix metalloproteinase genes expression on human annulus fibrosus cells. <i>Stem Cell Research and Therapy</i> , 2016, 7, 34.	5.5	30
18	Early Passage Mesenchymal Stem Cells Display Decreased Radiosensitivity and Increased DNA Repair Activity. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1504-1514.	3.3	29

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19	Minimally Invasive Versus Open Distal Fibular Plating for AO/OTA 44-B Ankle Fractures. <i>Foot and Ankle International</i> , 2016, 37, 611-619.	2.3	27
20	Accumulation of mitochondrial DNA with 4977-bp deletion in knee cartilage – an association with idiopathic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2005, 13, 1004-1011.	1.3	26
21	Comparison of Tunnel Enlargement and Clinical Outcome Between Bioabsorbable Interference Screws and Cortical Button-Post Fixation in Arthroscopic Double-Bundle Anterior Cruciate Ligament Reconstruction: A Prospective, Randomized Study With a Minimum Follow-Up of 2 Years. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 544-551.	2.7	26
22	Giant retroperitoneal schwannoma from the fifth lumbar nerve root with vertebral body osteolysis: a case report and literature review. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2009, 129, 495-499.	2.4	24
23	Arthroscopic Reduction and Minimally Invasive Surgery in Supination External Rotation Ankle Fractures: A Comparative Study With Open Reduction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2019, 35, 2671-2683.	2.7	23
24	Use of Allogeneic Hypoxic Mesenchymal Stem Cells For Treating Disc Degeneration in Rabbits. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1440-1450.	2.3	20
25	Osteoporotic burst fracture with spinal canal compromise treated with percutaneous vertebroplasty. <i>Clinical Neurology and Neurosurgery</i> , 2010, 112, 678-681.	1.4	19
26	The fates of pedicle screws and functional outcomes in a geriatric population following polymethylmethacrylate augmentation fixation for the osteoporotic thoracolumbar and lumbar burst fractures with mean ninety five month follow-up. <i>International Orthopaedics</i> , 2018, 42, 1313-1320.	1.9	18
27	Arthroscopic realignment and osteosynthesis of unstable scaphoid nonunion with cancellous bone graft from the ipsilateral radius. <i>International Orthopaedics</i> , 2021, 45, 191-197.	1.9	17
28	Determination of the painful level in osteoporotic vertebral fractures – Retrospective comparison between plain film, bone scan, and magnetic resonance imaging. <i>Journal of the Chinese Medical Association</i> , 2015, 78, 714-718.	1.4	15
29	Development of a two-step protocol for culture expansion of human annulus fibrosus cells with TGF- β 1 and FGF-2. <i>Stem Cell Research and Therapy</i> , 2016, 7, 89.	5.5	14
30	Grafting for bone defects after curettage of benign bone tumor – Analysis of factors influencing the bone healing. <i>Journal of the Chinese Medical Association</i> , 2018, 81, 643-648.	1.4	14
31	Outcome of Ti/PEEK Versus PEEK Cages in Minimally Invasive Transforaminal Lumbar Interbody Fusion. <i>Global Spine Journal</i> , 2023, 13, 472-478.	2.3	14
32	Fixation Strength of PMMA-augmented Pedicle Screws After Depth Adjustment in a Synthetic Bone Model of Osteoporosis. <i>Orthopedics</i> , 2012, 35, e1511-6.	1.1	14
33	Freezing Nitrogen Ethanol Composite May be a Viable Approach for Cryotherapy of Human Giant Cell Tumor of Bone. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1650-1663.	1.5	13
34	Analysis of learning curve of minimally invasive total knee arthroplasty. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 576-583.	1.4	13
35	Fixation of fifth metacarpal neck fractures: a comparison of medial locking plates with intramedullary K-wires. <i>Journal of Hand Surgery: European Volume</i> , 2020, 45, 567-573.	1.0	13
36	Does restoration of hip center with subtrochanteric osteotomy provide preferable outcome for Crowe type III-IV irreducible development dysplasia of the hip??. <i>Journal of the Chinese Medical Association</i> , 2017, 80, 803-807.	1.4	12

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37	Differences in the interbody bone graft area and fusion rate between minimally invasive and traditional open transforaminal lumbar interbody fusion: a retrospective short-term image analysis. <i>European Spine Journal</i> , 2019, 28, 2095-2102.	2.2	12
38	Does the size of the rod affect the surgical results in adolescent idiopathic scoliosis? 5.5-mm versus 6.35-mm rod. <i>Spine Journal</i> , 2014, 14, 1545-1550.	1.3	11
39	Implantation of an empty polyetheretherketone cage in anterior cervical discectomy and fusion: a prospective randomised controlled study with 2Åyears follow-up. <i>European Spine Journal</i> , 2018, 27, 1358-1364.	2.2	11
40	Bracing Following Transforaminal Lumbar Interbody Fusion is not Necessary for Patients With Degenerative Lumbar Spine Disease. <i>Clinical Spine Surgery</i> , 2018, 31, E441-E445.	1.3	11
41	Arthroscopic Ankle Arthrodesis Provides Similarly Satisfactory Surgical Outcomes in Ankles With Severe Deformity Compared With Mild Deformity in Elderly Patients. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020, 36, 2738-2747.	2.7	11
42	Comparison of the Infant and Adult Adipose-Derived Mesenchymal Stem Cells in Proliferation, Senescence, Anti-oxidative Ability and Differentiation Potential. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 589-601.	3.7	11
43	Bioactive surface modification of polycaprolactone using MG63-conditioned medium can induce osteogenic differentiation of mesenchymal stem cells. <i>Journal of Materials Science</i> , 2017, 52, 3967-3978.	3.7	10
44	The elderly have similar outcomes compared to younger patients after ORIF with locking plate for comminuted proximal humerus fracture. <i>Acta Orthopaedica Et Traumatologica Turcica</i> , 2019, 53, 1-5.	0.8	10
45	Comparison of screw fixation versus non-fixation in dorsal opening wedge medial cuneiform osteotomy of adult acquired flatfoot. <i>Foot and Ankle Surgery</i> , 2020, 26, 193-197.	1.7	10
46	Characterization of Osteogenesis and Chondrogenesis of Human Decellularized Allogeneic Bone with Mesenchymal Stem Cells Derived from Bone Marrow, Adipose Tissue, and Whartonâ€™s Jelly. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8987.	4.1	10
47	Conditioned medium derived from mesenchymal stem cells overexpressing HPV16 E6E7 dramatically improves ischemic limb. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 72, 339-349.	1.9	9
48	Optimal timing for elective total hip replacement in HIV-positive patients. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2018, 104, 671-674.	2.0	9
49	Expression profileâ€™driven discovery of AURKA as a treatment target for liposarcoma. <i>International Journal of Oncology</i> , 2019, 55, 938-948.	3.3	9
50	Ground truth generalizability affects performance of the artificial intelligence model in automated vertebral fracture detection on plain lateral radiographs of the spine. <i>Spine Journal</i> , 2022, 22, 511-523.	1.3	9
51	Does Implant Selection Impact Postoperative Complications Following Hip Arthroplasty for Failed Intertrochanteric Fractures? A Retrospective Comparative Study. <i>Artificial Organs</i> , 2016, 40, 798-804.	1.9	8
52	Radiographic Evaluation of Ankle Joint Stability After Calcaneofibular Ligament Elevation During Open Reduction and Internal Fixation of Calcaneus Fracture. <i>Foot and Ankle International</i> , 2016, 37, 944-949.	2.3	8
53	Staged protocol for the treatment of chronic femoral shaft osteomyelitis with Ilizarov's technique followed by the use of intramedullary locked nail. <i>Journal of the Chinese Medical Association</i> , 2017, 80, 376-382.	1.4	8
54	Lunocapitate fusion with scaphoid excision for the treatment of scaphoid nonunion advanced collapse or scapho-lunate advanced collapse wrist. <i>Journal of the Chinese Medical Association</i> , 2017, 80, 117-120.	1.4	8

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55	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
56	Reconstruction of Bone Defect Combined with Massive Loss of Periosteum Using Injectable Human Mesenchymal Stem Cells in Biocompatible Ceramic Scaffolds in a Porcine Animal Model. <i>Stem Cells International</i> , 2019, 2019, 1-8.	2.5	8
57	Suboptimal outcomes after internal fixation for displaced intracapsular femoral neck fractures in 50- to 60-year-old patients. <i>HIP International</i> , 2020, 30, 474-480.	1.7	8
58	Loss of radial height in extra-articular distal radial fracture following volar locking plate fixation. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2021, 107, 102842.	2.0	8
59	Infectious complications associated with toothpick injuries of the hand. <i>Journal of Hand Surgery</i> , 2003, 28, 327-331.	1.6	7
60	Repair of Pronator Quadratus With Partial Muscle Split and Distal Transfer for Volar Plating of Distal Radius Fractures. <i>Journal of Hand Surgery</i> , 2017, 42, 935.e1-935.e5.	1.6	7
61	Importance of a moderate plate-to-bone distance for the functioning of the far cortical locking system. <i>Medical Engineering and Physics</i> , 2018, 56, 48-53.	1.7	7
62	The mid-term outcome of dialysis-dependent patients undergoing primary total knee arthroplasty and total hip arthroplasty. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 143-147.	1.4	7
63	Functional outcomes and survival after surgical stabilization for inoperable non-small-cell lung cancer with spinal metastasis of the thoracic and lumbar spines: a retrospective comparison between epidermal growth factor receptor-tyrosine kinase inhibitor and platinum-based chemotherapy groups. <i>Spinal Cord</i> , 2020, 58, 194-202.	1.9	7
64	Ratio of fracture site diameter to isthmus femoral canal diameter as a predictor of complication following treatment of infra-isthmal femoral shaft fracture with antegrade intramedullary nailing. <i>Injury</i> , 2021, 52, 961-966.	1.7	7
65	Postoperative spinal orthosis may not be necessary for minimally invasive lumbar spine fusion surgery: a prospective randomized controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 619.	1.9	7
66	Repairing Complete Radial Tears of the Lateral Meniscus: Arthroscopic All-Inside Double Vertical Cross-Suture Technique Is Effective and Safe With 2-Year Minimum Follow-Up. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2022, 38, 1919-1929.	2.7	7
67	A safety comparative study between freezing nitrogen ethanol composite and liquid nitrogen for cryotherapy of musculoskeletal tumors. <i>Cryobiology</i> , 2018, 83, 34-39.	0.7	6
68	Percutaneous A1 Pulley Release Combined with Finger Splint for Trigger Finger with Proximal Interphalangeal Joint Flexion Contracture. <i>Journal of hand surgery Asian-Pacific volume, The</i> , 2019, 24, 270-275.	0.4	6
69	Displaced isolated greater tuberosity fractures of elder adults treated with plate osteosynthesis. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 318-321.	1.4	6
70	First-Ray Radiographic Changes After Flexible Adult Acquired Flatfoot Deformity Correction. <i>Foot and Ankle International</i> , 2022, 43, 55-65.	2.3	6
71	Atypical mycobacterial spondylitis as a challenging differential diagnosis to metastatic disease of the spine: a case report. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2013, 23, 135-139.	1.4	5
72	Is bony attachment necessary for dynamic reference frame in navigation-assisted minimally invasive lumbar spine fusion surgery?. <i>Computer Assisted Surgery</i> , 2019, 24, 7-12.	1.3	5

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73	Long-term results of modified ligament reconstruction and tendon interposition for thumb basal joint arthritis. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 655-658.	1.4	5
74	Radiographic risk factors for predicting failure of geriatric intertrochanteric fracture treatment with a cephalomedullary nail. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 584-588.	1.4	5
75	Influential factors of surgical decompression for ulnar nerve neuropathy in Guyon's canal. <i>Journal of the Chinese Medical Association</i> , 2021, 84, 885-889.	1.4	5
76	Multilevel calcium pyrophosphate dihydrate deposition in cervical ligamentum flavum: clinical characteristics and imaging features. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 929.	1.9	5
77	Comparing radial lengthening osteotomy with ulnar shortening osteotomy to treat ulnar impaction syndrome after distal radius fracture malunion. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 525-531.	2.4	5
78	Untreated small posterior fragment of ankle fracture with early removal of syndesmotic screw is associated with recurrent syndesmotic instability. <i>Injury</i> , 2021, 52, 638-643.	1.7	4
79	Incidences and Risk factors of Screw-related Superior Facet Articular Surface Violation at L4 and L5 levels in Transforaminal Lumbar Interbody Fusion. <i>Spine</i> , 2021, Publish Ahead of Print, E1283-E1291.	2.0	4
80	Real-Time Streaming of Surgery Performance and Intraoperative Imaging Data in the Hybrid Operating Room: Development and Usability Study. <i>JMIR Medical Informatics</i> , 2020, 8, e18094.	2.6	4
81	Are proximal screws necessary for osteosynthesis of stable-stem periprosthetic femoral fractures fixed with non-locking plate and cable?. <i>Injury</i> , 2019, 50, 1739-1744.	1.7	3
82	Long-term results in the patients with traumatic hip fracture-dislocation: Important prognostic factors. <i>Journal of the Chinese Medical Association</i> , 2020, 83, 686-689.	1.4	3
83	The outcome for surgical fixation of distal radial fractures in patients with idiopathic Parkinson's disease: a cohort study. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 125.	2.3	3
84	Radiographic and clinical results of modified 2-incision sinus tarsi approach for treatment of calcaneus fracture. <i>Injury</i> , 2021, 52, 1971-1977.	1.7	3
85	Risk factors for residual neurologic deficits after surgical treatment for epidural abscess in the thoracic or lumbar spine. <i>Spine Journal</i> , 2020, 20, 1638-1645.	1.3	3
86	Predictability of the pre-operative lateral fulcrum radiograph of success in one-level vertebroplasty to treat painful osteoporotic vertebral fracture. <i>Journal of the Chinese Medical Association</i> , 2021, Publish Ahead of Print, 129-135.	1.4	3
87	Preoperative Planning of the Lateral Entry Point Is Necessary in Percutaneous L5 Vertebroplasty. <i>World Neurosurgery</i> , 2017, 104, 476-481.	1.3	2
88	Recurrence rate of the Paine retinaculotome carpal tunnel release in diabetic and non-diabetic patients at long-term follow-up. <i>Journal of the Chinese Medical Association</i> , 2017, 80, 669-672.	1.4	2
89	The risk factors of early acetabular failure after bipolar hemiarthroplasty because of fracture of the femoral neck. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 419-423.	1.4	2
90	The efficacy of a drug holiday test on two-stage revision for infected total knee arthroplasty. <i>Journal of the Chinese Medical Association</i> , 2019, 82, 500-504.	1.4	2

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91	Efficacy of Povidone Iodine Solution in the Prevention of Surgical Site Infections in Minimally Invasive Instrumented Spinal Fusion Surgery. <i>Global Spine Journal</i> , 2020, , 219256822097538.	2.3	2
92	The outcome of minimally invasive surgery for digital mucous cyst: a 2-year follow-up of percutaneous capsulotomy. <i>Journal of Dermatological Treatment</i> , 2022, 33, 449-455.	2.2	2
93	Distal Metatarsal Segmental Shortening for the Treatment of Chronic Metatarsophalangeal Dislocation of Lesser Toes. <i>Foot and Ankle International</i> , 2021, 42, 183-191.	2.3	2
94	Postoperative Ambulatory Performance Status Significantly Affects Implant Failure Rate Among Surgical Treatment Strategies in Patients With Proximal Femur Metastasis. <i>Artificial Organs</i> , 2017, 41, 585-592.	1.9	1
95	Low rates of all-cause revision in displaced subcapital femoral neck fractures treated with hip hemiarthroplasty - a retrospective review of 4516 patients from a single institute. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 700.	1.9	1
96	Cementation of the highly cross-linked polyethylene liner into a well-fixed acetabular shell to treat patients with recurrent dislocation after total hip arthroplasty. <i>Artificial Organs</i> , 2021, 45, E136-E145.	1.9	1
97	Long-term radiographic outcomes and functional evaluation of ulnar shortening osteotomy in patients with ulnar impaction syndrome and reverse oblique sigmoid notch: a retrospective case series study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 136.	1.9	1
98	Response to O'Dowd-Booth et al regarding: "Comparing the coracoclavicular loop technique to a hook plate for the treatment of distal clavicle fractures". <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, e295-e296.	2.6	0
99	Author Reply to "Regarding "Arthroscopic Reduction and Minimally Invasive Surgery in Supination-External Rotation Ankle Fractures: A Comparative Study With Open Reduction" Arthroscopy - <i>Journal of Arthroscopic and Related Surgery</i> , 2020, 36, 1219-1220.	2.7	0
100	Preoperative facet joint arthropathy does not impact long-term clinical outcomes after lumbar-stability-preserving decompression and dynesys fixation. <i>Scientific Reports</i> , 2021, 11, 11299.	3.3	0
101	The efficacy of periarticular injection intraoperatively for mini-open rotator cuff repair: A comparative study. <i>Journal of the Chinese Medical Association</i> , 2021, 84, 640-643.	1.4	0
102	Are functional outcomes and reoperation rates really better than those of cementless stems in displaced femoral neck fractures? An updated systematic review and meta-analysis of randomised controlled trials in current-generation stem designs. <i>Journal of the Chinese Medical Association</i> , 2021, Publish Ahead of Print, 969-981.	1.4	0