

Hideki Shigematsu

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

636
citations

687363

13
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752698

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84
all docs

84
docs citations

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times ranked

697
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Bone marrow stromal cell sheets may promote axonal regeneration and functional recovery with suppression of glial scar formation after spinal cord transection injury in rats. <i>Journal of Neurosurgery: Spine</i> , 2017, 26, 388-395. | 1.7 | 53 |
| 2 | Genome-wide association study identifies 14 previously unreported susceptibility loci for adolescent idiopathic scoliosis in Japanese. <i>Nature Communications</i> , 2019, 10, 3685. | 12.8 | 47 |
| 3 | Degenerative spondylolisthesis does not influence surgical results of laminoplasty in elderly cervical spondylosis patients. <i>European Spine Journal</i> , 2010, 19, 720-725. | 2.2 | 38 |
| 4 | Lymphocyte Count at 4 Days Postoperatively and CRP Level at 7 Days Postoperatively. <i>Spine</i> , 2016, 41, 1173-1178. | 2.0 | 30 |
| 5 | Characterization and Predictive Value of Segmental Curve Flexibility in Adolescent Idiopathic Scoliosis Patients. <i>Spine</i> , 2017, 42, 1622-1628. | 2.0 | 27 |
| 6 | Preventing Fusion Mass Shift Avoids Postoperative Distal Curve Adding-on in Adolescent Idiopathic Scoliosis. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1448-1460. | 1.5 | 24 |
| 7 | Does developmental canal stenosis influence surgical results of bilateral open-door laminoplasty for cervical spondylosis myelopathy?. <i>Journal of Neurosurgery: Spine</i> , 2008, 9, 358-362. | 1.7 | 20 |
| 8 | Screening of known disease genes in congenital scoliosis. <i>Molecular Genetics & Genomic Medicine</i> , 2018, 6, 966-974. | 1.2 | 20 |
| 9 | Verification of measurements of lumbar spinal dimensions in T1- and T2-weighted magnetic resonance imaging sequences. <i>Spine Journal</i> , 2014, 14, 1476-1483. | 1.3 | 17 |
| 10 | Revision surgery after cervical laminoplasty: report of five cases and literature review. <i>Spine Journal</i> , 2015, 15, e7-e13. | 1.3 | 17 |
| 11 | Efficacy of Intraoperative Intervention Following Transcranial Motor-evoked Potentials Alert During Posterior Decompression and Fusion Surgery for Thoracic Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2021, 46, 268-276. | 2.0 | 17 |
| 12 | Bite injuries caused by transcranial electrical stimulation motor-evoked potentials™ monitoring: incidence, associated factors, and clinical course. <i>Journal of Anesthesia</i> , 2018, 32, 844-849. | 1.7 | 16 |
| 13 | Minimally invasive spinopelvic "crab-shaped fixation" for unstable pelvic ring fractures: technical note and 16 case series. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 51. | 2.3 | 16 |
| 14 | Preliminary algorithm for differential diagnosis between spinal meningioma and schwannoma using plain magnetic resonance imaging. <i>Journal of Orthopaedic Science</i> , 2018, 23, 408-413. | 1.1 | 14 |
| 15 | Hypoalbuminemia Increased the Length of Stay in the Treatment of Postoperative Acute Surgical Site Infection in Spinal Surgery. <i>Spine</i> , 2020, 45, E1564-E1571. | 2.0 | 14 |
| 16 | Lymphocyte Count at 4 Days Postoperatively. <i>Spine</i> , 2018, 43, E1096-E1101. | 2.0 | 13 |
| 17 | Bi-allelic loss of function variants of <i>TBX6</i> causes a spectrum of malformation of spine and rib including congenital scoliosis and spondylocostal dysostosis. <i>Journal of Medical Genetics</i> , 2019, 56, 622-628. | 3.2 | 13 |
| 18 | Adolescent Scoliosis Screening in Nara City Schools: A 23-Year Retrospective Cross-Sectional Study. <i>Asian Spine Journal</i> , 2015, 9, 407. | 2.0 | 12 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Lymphopenia and Elevated Blood C-Reactive Protein Levels at Four Days Postoperatively Are Useful Markers for Early Detection of Surgical Site Infection Following Posterior Lumbar Instrumentation Surgery. <i>Asian Spine Journal</i> , 2016, 10, 220. | 2.0 | 11 |
| 20 | Lymphopenia at 4 Days Postoperatively Is the Most Significant Laboratory Marker for Early Detection of Surgical Site Infection Following Posterior Lumbar Instrumentation Surgery. <i>Asian Spine Journal</i> , 2016, 10, 1042. | 2.0 | 10 |
| 21 | The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2022, 104, 630-640. | 3.0 | 10 |
| 22 | Cervical spinal canal stenosis first presenting after spinal cord injury due to minor trauma: An insight into the value of preventive decompression. <i>Journal of Orthopaedic Science</i> , 2017, 22, 22-26. | 1.1 | 9 |
| 23 | Post-tetanic transcranial motor evoked potentials augment the amplitude of compound muscle action potentials recorded from innervated and non-innervated muscles. <i>Spine Journal</i> , 2018, 18, 740-746. | 1.3 | 8 |
| 24 | Characteristics of Cases with Poor Transcranial Motor-evoked Potentials Baseline Waveform Derivation in Spine Surgery. <i>Spine</i> , 2021, 46, E1211-E1219. | 2.0 | 8 |
| 25 | Higher success rate with transcranial electrical stimulation of motor-evoked potentials using constant-voltage stimulation compared with constant-current stimulation in patients undergoing spinal surgery. <i>Spine Journal</i> , 2017, 17, 1472-1479. | 1.3 | 7 |
| 26 | A Replication Study for the Association of rs11190870 With Curve Severity in Adolescent Idiopathic Scoliosis in Japanese. <i>Spine</i> , 2018, 43, 688-692. | 2.0 | 7 |
| 27 | Validity of the Alarm Point in Intraoperative Neurophysiological Monitoring of the Spinal Cord by the Monitoring Working Group of the Japanese Society for Spine Surgery and Related Research. <i>Spine</i> , 2021, 46, E1069-E1076. | 2.0 | 7 |
| 28 | Floating spine after pedicle subtraction osteotomy for post-traumatic kyphosis. <i>European Spine Journal</i> , 2014, 23, 278-284. | 2.2 | 6 |
| 29 | Increased Segmental Range of Motion Is Correlated With Spondylolisthesis in the Cervical Spine After Laminoplasty. <i>Spine</i> , 2017, 42, E385-E391. | 2.0 | 6 |
| 30 | Comparison of neutrophil and lymphocyte at 1 and 4 days postoperatively: reliable and early detection markers for surgical site infection following instrumented spinal fusion. <i>Spine Surgery and Related Research</i> , 2018, 2, 127-134. | 0.7 | 6 |
| 31 | Loco-check presents a useful tool to determine health-related quality of life in elderly people with lumbar spinal stenosis. <i>Journal of Orthopaedic Science</i> , 2019, 24, 715-719. | 1.1 | 6 |
| 32 | Predictability of Coronal Curve Flexibility in Postoperative Curve Correction in Adolescent Idiopathic Scoliosis: The Effect of the Sagittal Profile. <i>Global Spine Journal</i> , 2020, 10, 303-311. | 2.3 | 6 |
| 33 | Is brace treatment unnecessary for cases of adolescent idiopathic scoliosis above Risser sign 3?. <i>Journal of Orthopaedic Science</i> , 2020, 25, 975-979. | 1.1 | 6 |
| 34 | Understanding the effect of non-surgical factors in a transcranial motor-evoked potential alert: A retrospective cohort study. <i>Journal of Orthopaedic Science</i> , 2021, 26, 739-743. | 1.1 | 6 |
| 35 | Monophasic transcranial constant-current versus constant-voltage stimulation of motor-evoked potentials during spinal surgery. <i>Scientific Reports</i> , 2019, 9, 3773. | 3.3 | 5 |
| 36 | Muscle-evoked Potentials After Electrical Stimulation to the Brain in Patients Undergoing Spinal Surgery are Less Affected by Anesthetic Fade With Constant-voltage Stimulation Than With Constant-current Stimulation. <i>Spine</i> , 2019, 44, 1492-1498. | 2.0 | 5 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | In vitro osteogenesis of rat bone marrow mesenchymal cells on PEEK disks with heat-fixed apatite by CO2 laser bonding. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 692. | 1.9 | 5 |
| 38 | How do we follow-up patients with adolescent idiopathic scoliosis? Recommendations based on a multicenter study on the distal radius and ulna classification. <i>European Spine Journal</i> , 2020, 29, 2064-2074. | 2.2 | 5 |
| 39 | What determines immediate postoperative coronal balance and delayed global coronal balance after anterior spinal fusion for Lenke 5C curves?. <i>European Spine Journal</i> , 2021, 30, 2007-2019. | 2.2 | 5 |
| 40 | Intercostal artery rupture associated with thoracic spinal hyperextension injury caused by a minor trauma: A case report. <i>Trauma Case Reports</i> , 2021, 33, 100487. | 0.4 | 5 |
| 41 | Polygenic Risk Score of Adolescent Idiopathic Scoliosis for Potential Clinical Use. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 1481-1491. | 2.8 | 5 |
| 42 | Tetanic stimulation of the peripheral nerve augments motor evoked potentials by re-exciting spinal anterior horn cells. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 259-270. | 1.6 | 5 |
| 43 | Reliability Comparison between "Distal Radius and Ulna" and "Simplified Tanner" "Whitehouse III" Assessments for Patients with Adolescent Idiopathic Scoliosis. <i>Asian Spine Journal</i> , 2020, 14, 280-286. | 2.0 | 5 |
| 44 | Biceps-Related Physical Findings Are Useful to Prevent Misdiagnosis of Cervical Spondylotic Amyotrophy as a Rotator Cuff Tear. <i>Asian Spine Journal</i> , 2018, 12, 69-73. | 2.0 | 5 |
| 45 | Evaluating Cervical Sagittal Alignment in Cervical Myelopathy: Are Sitting Cervical Radiographs and Standing Whole-Spine Radiographs Equally Useful?. <i>Global Spine Journal</i> , 2019, 9, 591-597. | 2.3 | 4 |
| 46 | Affirmative answers on loco-check as a predictor of health-related quality of life and locomotive syndrome progression in the elderly: A cross-sectional study. <i>Modern Rheumatology</i> , 2020, 30, 580-585. | 1.8 | 4 |
| 47 | Efficacy of Transcranial Motor Evoked Potential Monitoring During Intra- and Extramedullary Spinal Cord Tumor Surgery: A Prospective Multicenter Study of the Monitoring Committee of the Japanese Society for Spine Surgery and Related Research. <i>Global Spine Journal</i> , 2023, 13, 961-969. | 2.3 | 4 |
| 48 | Alternate In-Brace and Out-of-Brace Radiographs Are Recommended to Assess Brace Fitting and Curve Progression With Adolescent Idiopathic Scoliosis Follow-Up. <i>Global Spine Journal</i> , 2023, 13, 1332-1341. | 2.3 | 4 |
| 49 | Sex differences in reference values of hip acetabular measurements using computed tomography in Japanese adults and the effect of aging on the measurement parameters. <i>Journal of Orthopaedic Science</i> , 2021, 26, 1029-1035. | 1.1 | 4 |
| 50 | Efficacy of D-Wave Monitoring Combined With the Transcranial Motor-Evoked Potentials in High-Risk Spinal Surgery: A Retrospective Multicenter Study of the Monitoring Committee of the Japanese Society for Spine Surgery and Related Research. <i>Global Spine Journal</i> , 2022, , 219256822210846. | 2.3 | 4 |
| 51 | Ureteral injury as a possible complication of vertebral fracture in a patient with ankylosing spinal hyperostosis. <i>Journal of Orthopaedic Science</i> , 2018, 23, 194-196. | 1.1 | 3 |
| 52 | Development of a Retro-Odontoid pseudotumor in the absence of atlantoaxial instability or rheumatoid arthritis Post-Laminoplasty: case report. <i>British Journal of Neurosurgery</i> , 2023, 37, 750-754. | 0.8 | 3 |
| 53 | Impairment-driven cancer rehabilitation in patients with neoplastic spinal cord compression using minimally invasive spine stabilization. <i>World Journal of Surgical Oncology</i> , 2020, 18, 187. | 1.9 | 3 |
| 54 | The critical cutoff point of the Zurich Claudication Questionnaire and the Japanese Orthopaedic Association score indicating locomotive syndrome in patients with lumbar spinal canal stenosis. <i>Journal of Orthopaedic Science</i> , 2021, 26, 290-294. | 1.1 | 3 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Clinical questions on rehabilitation in cancer patients with skeletal metastasis: a content analysis of the multidisciplinary tumor board records. <i>Supportive Care in Cancer</i> , 2021, 29, 2015-2020. | 2.2 | 3 |
| 56 | Muscle Weakness in the Empty and Full Can Tests Cannot Differentiate Rotator Cuff Tear from Cervical Spondylotic Amyotrophy: Pain Provocation is a Useful Finding. <i>The Open Orthopaedics Journal</i> , 2017, 11, 1081-1086. | 0.2 | 3 |
| 57 | Differential diagnosis between metastatic and osteoporotic vertebral fractures using sagittal T1-weighted magnetic resonance imaging. <i>Journal of Orthopaedic Science</i> , 2020, 25, 763-769. | 1.1 | 2 |
| 58 | Controversies with nonoperative management for adolescent idiopathic scoliosis: Study from the APSS Scoliosis Focus Group. <i>Journal of Orthopaedic Surgery</i> , 2020, 28, 230949902093029. | 1.0 | 2 |
| 59 | Can the loco-check be used as a self-check tool for evaluating fall risk among older subjects? A prospective study. <i>Journal of Orthopaedic Science</i> , 2021, 26, 891-895. | 1.1 | 2 |
| 60 | Posterolateral Lumbar Fusion by Tissue Engineered Bone. <i>Key Engineering Materials</i> , 2006, 309-311, 1013-1016. | 0.4 | 1 |
| 61 | An aneurysmal bone cyst at T1 treated with bone grafts containing calcitonin and methylprednisolone. <i>Journal of Orthopaedic Surgery</i> , 2019, 27, 230949901983962. | 1.0 | 1 |
| 62 | Expert consensus on surgical treatment for adolescent idiopathic scoliosis in Japan. <i>Journal of Orthopaedic Science</i> , 2020, 26, 765-773. | 1.1 | 1 |
| 63 | An infected aneurysm of the vertebral artery following cervical pyogenic spondylitis: a case report and literature review. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 22. | 1.9 | 1 |
| 64 | Surgery Can Improve Locomotive Syndrome Due to Lumbar Spinal Canal Stenosis and Loco-Check Can Predict Best Timing of Surgery to Avoid Progress of Locomotive Syndrome. <i>Spine Surgery and Related Research</i> , 2022, 6, 58-62. | 0.7 | 1 |
| 65 | Characteristics of Tc-MEP Waveforms for Different Locations of Intradural Extramedullary Tumors. <i>Spine</i> , 2021, Publish Ahead of Print, 172-179. | 2.0 | 1 |
| 66 | Characteristics of Tc-MEP Waveforms in Spine Surgery for Patients with Severe Obesity. <i>Spine</i> , 2021, Publish Ahead of Print, 1738-1747. | 2.0 | 1 |
| 67 | Minimally invasive 360-degree pelvic ring fixation using a combination of crab-shaped fixation and pelvic internal fixator for unstable pelvic ring fracture: A case report. <i>Trauma Case Reports</i> , 2021, 36, 100540. | 0.4 | 1 |
| 68 | Temporal Evolution of White Blood Cell Count and Differential: Reliable and Early Detection Markers for Surgical Site Infection Following Spinal Posterior Decompression Surgery. <i>Spine Surgery and Related Research</i> , 2022, 6, 271-278. | 0.7 | 1 |
| 69 | Preliminary Screening Method for Low Bone Mineral Density Using a Self-Reported Questionnaire among Peri- and Postmenopausal Women. <i>Asian Spine Journal</i> , 2022, , . | 2.0 | 1 |
| 70 | Radiological Evaluation of Pelvic Morphology for S2 Alar-iliac Screw Insertion in the Japanese Samples: A Retrospective Cohort Study. <i>Spine Surgery and Related Research</i> , 2022, , . | 0.7 | 1 |
| 71 | Cool Storage of Human Tissue Engineered Bone for Bone Regeneration Therapy. <i>Key Engineering Materials</i> , 2006, 309-311, 1005-1008. | 0.4 | 0 |
| 72 | Osteogenic Potential of Tissue Engineered Bone by Combination of Marrow Mesenchymal Cells and Cultured Bone/Ceramic Constructs. <i>Key Engineering Materials</i> , 2006, 309-311, 1001-1004. | 0.4 | 0 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Bone Regeneration from Frozen Marrow Mesenchymal Cells/Recombinant Human Bone Morphogenetic Protein/Hydroxyapatite Transplantation. <i>Key Engineering Materials</i> , 2006, 309-311, 1009-1012. | 0.4 | 0 |
| 74 | Esophageal incarceration associated with cervical vertebral fracture in a patient with diffuse idiopathic skeletal hyperostosis. <i>Journal of Orthopaedic Science</i> , 2021, 26, 182-185. | 1.1 | 0 |
| 75 | Comparison of Modified Marmot Surgery and Lumbar Spinous Process Splitting Laminectomy in Lumbar Spinal Stenosis: Two-Year Outcomes. <i>Spine Surgery and Related Research</i> , 2021, 5, 165-170. | 0.7 | 0 |
| 76 | Refractory Pyogenic Spondylitis Subsequent to Vascular Graft Infection: A Case Report. <i>Spine Surgery and Related Research</i> , 2021, 5, 302-306. | 0.7 | 0 |
| 77 | Transcranial electrical stimulation motor-evoked potentials rescue from postoperative neurological deficit due to inadequate neck position for the case of lumbar surgery with asymptomatic cervical stenosis. <i>European Spine Journal</i> , 2022, , 1. | 2.2 | 0 |
| 78 | BACILLUS CALMETTE-GUÉRIN SPONDYLODISCITIS AFTER INTRAVESICAL BCG THERAPY: A CASE REPORT. <i>Spine Surgery and Related Research</i> , 2022, , . | 0.7 | 0 |