

John H. Shin

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

1,844
citations

331670

21
h-index

315739

38
g-index

100
all docs

100
docs citations

100
times ranked

2210
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Safety and efficacy of stereotactic body radiotherapy as primary treatment for vertebral metastases: a multi-institutional analysis. <i>Radiation Oncology</i> , 2014, 9, 226. | 2.7 | 144 |
| 2 | Predicting 90-Day and 1-Year Mortality in Spinal Metastatic Disease: Development and Internal Validation. <i>Neurosurgery</i> , 2019, 85, E671-E681. | 1.1 | 125 |
| 3 | Development of Machine Learning Algorithms for Prediction of 30-Day Mortality After Surgery for Spinal Metastasis. <i>Neurosurgery</i> , 2019, 85, E83-E91. | 1.1 | 106 |
| 4 | Human prostate cancer bone metastases have an actionable immunosuppressive microenvironment. <i>Cancer Cell</i> , 2021, 39, 1464-1478.e8. | 16.8 | 98 |
| 5 | When Less Is More. <i>Spine</i> , 2016, 41, S246-S253. | 2.0 | 80 |
| 6 | Exploiting MCL1 Dependency with Combination MEK + MCL1 Inhibitors Leads to Induction of Apoptosis and Tumor Regression in <i>KRAS</i> -Mutant Non-Small Cell Lung Cancer. <i>Cancer Discovery</i> , 2018, 8, 1598-1613. | 9.4 | 71 |
| 7 | Stereotactic Body Radiotherapy for Spinal Metastases. <i>Spine</i> , 2016, 41, S238-S245. | 2.0 | 68 |
| 8 | Safety and accuracy of robot-assisted placement of pedicle screws compared to conventional free-hand technique: a systematic review and meta-analysis. <i>Spine Journal</i> , 2021, 21, 181-192. | 1.3 | 67 |
| 9 | Sporadic hemangioblastomas are characterized by cryptic VHL inactivation. <i>Acta Neuropathologica Communications</i> , 2014, 2, 167. | 5.2 | 65 |
| 10 | Management of Locally Recurrent Chordoma of the Mobile Spine and Sacrum. <i>Spine</i> , 2016, 41, S193-S198. | 2.0 | 59 |
| 11 | BRAF alteration status and the histone H3F3A gene K27M mutation segregate spinal cord astrocytoma histology. <i>Acta Neuropathologica</i> , 2016, 131, 147-150. | 7.7 | 57 |
| 12 | Predicting Neurologic Recovery after Surgery in Patients with Deficits Secondary to MESCC. <i>Spine</i> , 2016, 41, S224-S230. | 2.0 | 50 |
| 13 | Validation of the Spine Oncology Study Group's "Outcomes Questionnaire" to assess quality of life in patients with metastatic spine disease. <i>Spine Journal</i> , 2017, 17, 768-776. | 1.3 | 44 |
| 14 | Spinal metastases 2021: a review of the current state of the art and future directions. <i>Spine Journal</i> , 2021, 21, 1414-1429. | 1.3 | 38 |
| 15 | Polyetheretherketone Versus Titanium Cages for Posterior Lumbar Interbody Fusion: Meta-Analysis and Review of the Literature. <i>Neurospine</i> , 2020, 17, 125-135. | 2.9 | 38 |
| 16 | Spinal cord glioblastoma: 25years of experience from a single institution. <i>Journal of Clinical Neuroscience</i> , 2016, 27, 138-141. | 1.5 | 35 |
| 17 | Current treatment strategy for newly diagnosed chordoma of the mobile spine and sacrum: results of an international survey. <i>Journal of Neurosurgery: Spine</i> , 2019, 30, 119-125. | 1.7 | 35 |
| 18 | Virtual Spine: A Novel, International Teleconferencing Program Developed to Increase the Accessibility of Spine Education During the COVID-19 Pandemic. <i>World Neurosurgery</i> , 2020, 140, e367-e372. | 1.3 | 33 |

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|----|---|-----|-----------|
| 19 | Prospective validation of a clinical prediction score for survival in patients with spinal metastases: the New England Spinal Metastasis Score. <i>Spine Journal</i> , 2021, 21, 28-36. | 1.3 | 31 |
| 20 | The role of revision surgery and adjuvant therapy following subtotal resection of osteosarcoma of the spine: a systematic review with meta-analysis. <i>Journal of Neurosurgery: Spine</i> , 2017, 27, 97-104. | 1.7 | 27 |
| 21 | Risk Factors for Wound-Related Complications After Surgery for Primary and Metastatic Spine Tumors: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2020, 141, 467-478.e3. | 1.3 | 23 |
| 22 | Progression free survival and functional outcome after surgical resection of intramedullary ependymomas. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1933-1937. | 1.5 | 21 |
| 23 | Performance assessment of the metastatic spinal tumor frailty index using machine learning algorithms: limitations and future directions. <i>Neurosurgical Focus</i> , 2021, 50, E5. | 2.3 | 21 |
| 24 | Modified-frailty index does not independently predict complications, hospital length of stay or 30-day readmission rates following posterior lumbar decompression and fusion for spondylolisthesis. <i>Spine Journal</i> , 2021, 21, 1812-1821. | 1.3 | 20 |
| 25 | Predictive Analytics in Spine Oncology Research: First Steps, Limitations, and Future Directions. <i>Neurospine</i> , 2019, 16, 669-677. | 2.9 | 20 |
| 26 | A Systematic Review of Metastatic Hepatocellular Carcinoma to the Spine. <i>World Neurosurgery</i> , 2016, 91, 510-517.e4. | 1.3 | 19 |
| 27 | Laboratory markers as useful prognostic measures for survival in patients with spinal metastases. <i>Spine Journal</i> , 2020, 20, 5-13. | 1.3 | 16 |
| 28 | Prospective comparison of the accuracy of the New England Spinal Metastasis Score (NESMS) to legacy scoring systems in prognosticating outcomes following treatment of spinal metastases. <i>Spine Journal</i> , 2022, 22, 39-48. | 1.3 | 16 |
| 29 | Bilateral Pedicle Screw Fixation versus Unilateral Pedicle and Contralateral Facet Screws for Minimally Invasive Transforaminal Lumbar Interbody Fusion: Clinical Outcomes and Cost Analysis. <i>Global Spine Journal</i> , 2013, 3, 225-230. | 2.3 | 15 |
| 30 | Molecular and clinical prognostic factors for favorable outcome following surgical resection of adult intramedullary spinal cord astrocytomas. <i>Clinical Neurology and Neurosurgery</i> , 2016, 144, 82-87. | 1.4 | 15 |
| 31 | Design of the prospective observational study of spinal metastasis treatment (POST). <i>Spine Journal</i> , 2020, 20, 572-579. | 1.3 | 15 |
| 32 | Scoring System to Triage Patients for Spine Surgery in the Setting of Limited Resources: Application to the Coronavirus Disease 2019 (COVID-19) Pandemic and Beyond. <i>World Neurosurgery</i> , 2020, 140, e373-e380. | 1.3 | 15 |
| 33 | Advances in surgical hemostasis: a comprehensive review and meta-analysis on topical tranexamic acid in spinal deformity surgery. <i>Neurosurgical Review</i> , 2021, 44, 163-175. | 2.4 | 15 |
| 34 | Development and Validation of Machine Learning Algorithms for Predicting Adverse Events After Surgery for Lumbar Degenerative Spondylolisthesis. <i>World Neurosurgery</i> , 2020, 140, 627-641. | 1.3 | 14 |
| 35 | Safety and efficacy of cement augmentation with fenestrated pedicle screws for tumor-related spinal instability. <i>Neurosurgical Focus</i> , 2021, 50, E12. | 2.3 | 14 |
| 36 | Assessment of the efficacy of teriparatide treatment for osteoporosis on lumbar fusion surgery outcomes: a systematic review and meta-analysis. <i>Neurosurgical Review</i> , 2021, 44, 1357-1370. | 2.4 | 13 |

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|----|---|-----|-----------|
| 37 | Assessment of Frailty Indices and Charlson Comorbidity Index for Predicting Adverse Outcomes in Patients Undergoing Surgery for Spine Metastases: A National Database Analysis. <i>World Neurosurgery</i> , 2022, 164, e1058-e1070. | 1.3 | 13 |
| 38 | Prognostic models for spinal metastatic disease: evolution of methodologies, limitations, and future opportunities. <i>Annals of Translational Medicine</i> , 2019, 7, 219-219. | 1.7 | 12 |
| 39 | Effect of Immunotherapy Status on Outcomes in Patients With Metastatic Melanoma to the Spine. <i>Spine</i> , 2017, 42, E721-E725. | 2.0 | 11 |
| 40 | Structural Allograft versus Polyetheretherketone Implants in Patients Undergoing Spinal Fusion Surgery: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2020, 136, 101-109. | 1.3 | 11 |
| 41 | Emerging Percutaneous Ablative and Radiosurgical Techniques for Treatment of Spinal Metastases. <i>Neurosurgery Clinics of North America</i> , 2020, 31, 141-150. | 1.7 | 10 |
| 42 | Survival After Surgery for Renal Cell Carcinoma Metastatic to the Spine: Impact of Modern Systemic Therapies on Outcomes. <i>Neurosurgery</i> , 2020, 87, 1174-1180. | 1.1 | 10 |
| 43 | Association of Spinal Alignment Correction With Patient-Reported Outcomes in Adult Cervical Deformity: Review of the Literature. <i>Neurospine</i> , 2021, 18, 533-542. | 2.9 | 10 |
| 44 | Hospital Frailty Risk Score and healthcare resource utilization after surgery for metastatic spinal column tumors. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 241-251. | 1.7 | 10 |
| 45 | Risk for surgical complications after previous stereotactic body radiotherapy of the spine. <i>Radiation Oncology</i> , 2017, 12, 153. | 2.7 | 9 |
| 46 | Computer-Assisted Navigation for Real Time Planning of Pedicle Subtraction Osteotomy in Cervico-Thoracic Deformity Correction. <i>Operative Neurosurgery</i> , 2019, 16, 445-450. | 0.8 | 9 |
| 47 | Novel Strategy of Ventral Dural Repair for Idiopathic Thoracic Spinal Cord Herniation: Report of Outcomes and Review of Techniques. <i>Operative Neurosurgery</i> , 2019, 17, 21-31. | 0.8 | 9 |
| 48 | Hospital Frailty Risk Score and Healthcare Resource Utilization After Surgery for Primary Spinal Intradural/Cord Tumors. <i>Global Spine Journal</i> , 2023, 13, 2074-2084. | 2.3 | 9 |
| 49 | Efficiency gains for spinal radiosurgery using multicriteria optimization intensity modulated radiation therapy guided volumetric modulated arc therapy planning. <i>Practical Radiation Oncology</i> , 2015, 5, 49-55. | 2.1 | 7 |
| 50 | Implication of Biomarker Mutations for Predicting Survival in Patients With Metastatic Lung Cancer to the Spine. <i>Spine</i> , 2018, 43, E1274-E1280. | 2.0 | 7 |
| 51 | Histopathological Findings After Reirradiation Compared to First Irradiation of Spinal Bone Metastases With Stereotactic Body Radiotherapy: A Cohort Study. <i>Neurosurgery</i> , 2019, 84, 435-441. | 1.1 | 7 |
| 52 | The Prognostic Role of Magnetic Resonance Imaging Biomarkers in Mild Traumatic Injury. <i>JAMA Network Open</i> , 2021, 4, e211824. | 5.9 | 7 |
| 53 | Cost and Health Care Resource Utilization Differences After Spine Surgery for Bony Spine versus Primary Intradural Spine Tumors. <i>World Neurosurgery</i> , 2021, 151, e286-e298. | 1.3 | 7 |
| 54 | Patient- and hospital-related risk factors for non-routine discharge after lumbar decompression and fusion for spondylolisthesis. <i>Clinical Neurology and Neurosurgery</i> , 2021, 209, 106902. | 1.4 | 7 |

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|----|--|------|-----------|
| 55 | Clinician Experiences in Treatment Decision-Making for Patients with Spinal Metastases. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, e1. | 3.0 | 7 |
| 56 | Effects of preoperative nutritional status on complications and readmissions after posterior lumbar decompression and fusion for spondylolisthesis: A propensity-score analysis. <i>Clinical Neurology and Neurosurgery</i> , 2021, 211, 107017. | 1.4 | 7 |
| 57 | Machine Learning Applications of Surgical Imaging for the Diagnosis and Treatment of Spine Disorders: Current State of the Art. <i>Neurosurgery</i> , 2022, 90, 372-382. | 1.1 | 7 |
| 58 | Iliac Screw Fixation Using Computer-Assisted Computer Tomographic Image Guidance. <i>Operative Neurosurgery</i> , 2012, 70, ons16-ons20. | 0.8 | 6 |
| 59 | Metastatic adrenal cortical carcinoma to T12 vertebrae. <i>Journal of Clinical Neuroscience</i> , 2016, 27, 166-169. | 1.5 | 6 |
| 60 | Myopericytoma at the Craniocervical Junction: Clinicopathological Report and Review of a Rare Perivascular Neoplasm. <i>Neurosurgery</i> , 2019, 85, E360-E365. | 1.1 | 6 |
| 61 | Systematic review of charged-particle therapy for chordomas and sarcomas of the mobile spine and sacrum. <i>Neurosurgical Focus</i> , 2021, 50, E17. | 2.3 | 6 |
| 62 | The effectiveness of systemic therapies after surgery for metastatic renal cell carcinoma to the spine: a propensity analysis controlling for sarcopenia, frailty, and nutrition. <i>Journal of Neurosurgery: Spine</i> , 2021, 35, 356-365. | 1.7 | 6 |
| 63 | Comparison of three predictive scoring systems for morbidity in oncological spine surgery. <i>Journal of Clinical Neuroscience</i> , 2021, 94, 13-17. | 1.5 | 6 |
| 64 | Differences in Health Care Resource Utilization After Surgery for Metastatic Spinal Column Tumors in Patients with a Concurrent Affective Disorder in the United States. <i>World Neurosurgery</i> , 2022, 161, e252-e267. | 1.3 | 6 |
| 65 | Open epidural blood patch to augment durotomy repair in lumbar spine surgery: surgical technique and cohort study. <i>Spine Journal</i> , 2021, 21, 2010-2018. | 1.3 | 5 |
| 66 | Does Obesity Correlate with Postoperative Complications After Elective Posterior Cervical Spine Fusion?. <i>World Neurosurgery</i> , 2020, 141, e231-e238. | 1.3 | 5 |
| 67 | Artificial Intelligence in Neurosurgery: A Comment on the Possibilities. <i>Neurospine</i> , 2019, 16, 640-642. | 2.9 | 5 |
| 68 | Intramedullary spinal metastasis of a carcinoid tumor. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1990-1991. | 1.5 | 4 |
| 69 | Case 19-2017 "A 53-Year-Old Woman with Leg Numbness and Weakness. <i>New England Journal of Medicine</i> , 2017, 376, 2471-2481. | 27.0 | 4 |
| 70 | Free Vascularized Fibula Graft with Femoral Allograft Sleeve for Lumbar Spine Defects After Spondylectomy of Malignant Tumors. <i>JBJS Case Connector</i> , 2020, 10, e20.00075-e20.00075. | 0.3 | 4 |
| 71 | Interhospital transfer status for spinal metastasis patients in the United States is associated with more severe clinical presentations and higher rates of inpatient complications. <i>Neurosurgical Focus</i> , 2021, 50, E4. | 2.3 | 4 |
| 72 | Clinical Prediction Modeling in Intramedullary Spinal Tumor Surgery. <i>Acta Neurochirurgica Supplementum</i> , 2022, 134, 333-339. | 1.0 | 4 |

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|----|--|-----|-----------|
| 73 | Evaluating frailty, mortality, and complications associated with metastatic spine tumor surgery using machine learning-derived body composition analysis. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 263-273. | 1.7 | 4 |
| 74 | Commentary: Sarcopenia as a Prognostic Factor for 90-Day and Overall Mortality in Patients Undergoing Spine Surgery for Metastatic Tumors: A Multi-Center Retrospective Cohort Study. <i>Neurosurgery</i> , 2020, 87, E550-E551. | 1.1 | 3 |
| 75 | Microsurgical resection of foramen magnum meningioma: multi-institutional retrospective case series and proposed surgical risk scoring system. <i>Journal of Neuro-Oncology</i> , 2021, 153, 331-342. | 2.9 | 3 |
| 76 | Novel Applications of Spinal Navigation in Deformity and Oncology Surgery—Beyond Screw Placement. <i>Operative Neurosurgery</i> , 2021, 21, S23-S38. | 0.8 | 3 |
| 77 | Race Is an Independent Predictor for Nonroutine Discharges After Spine Surgery for Spinal Intradural/Cord Tumors. <i>World Neurosurgery</i> , 2021, 151, e707-e717. | 1.3 | 3 |
| 78 | Racial Disparities in Perioperative Morbidity Following Oncological Spine Surgery. <i>Global Spine Journal</i> , 2023, 13, 1194-1199. | 2.3 | 2 |
| 79 | Biomechanical analysis of stand-alone lumbar interbody cages versus 360° constructs: an in vitro and finite element investigation. <i>Journal of Neurosurgery: Spine</i> , 2022, 36, 928-936. | 1.7 | 2 |
| 80 | A 20-Year-Old Man With Back Pain and Lower Extremity Weakness. <i>JAMA Neurology</i> , 2015, 72, 363. | 9.0 | 1 |
| 81 | The Italian Renaissance “spacer style. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 678-679. | 3.3 | 1 |
| 82 | Introduction. Treatment of spinal cord and spinal axial tumors. <i>Neurosurgical Focus</i> , 2021, 50, E1. | 2.3 | 1 |
| 83 | Feasibility of achieving planned surgical margins in primary spine tumor: a PTRON study. <i>Neurosurgical Focus</i> , 2021, 50, E16. | 2.3 | 1 |
| 84 | Impact of Racial Disparities on All-Cause Mortality in Patients With Tumors of the Spinal Cord or Spinal Meninges: A Propensity-Score Analysis. <i>Global Spine Journal</i> , 2023, 13, 1365-1373. | 2.3 | 1 |
| 85 | The Ongoing Debate of Arthroplasty or Fusion for Cervical Radiculopathy. <i>JAMA Network Open</i> , 2021, 4, e2119577. | 5.9 | 1 |
| 86 | Novel Technique for C1–2 Interlaminar Arthrodesis Utilizing a Modified Sonntag Loop-Suture Graft With Posterior C1–2 Fixation. <i>Neurospine</i> , 2020, 17, 659-665. | 2.9 | 1 |
| 87 | Utility of Virtual Spine Neurosurgery Education for Medical Students. <i>World Neurosurgery</i> , 2022, 163, 179-186. | 1.3 | 1 |
| 88 | Application of Video-Based Deep Learning for Early Diagnosis of Neurological Disorders. <i>JAMA Network Open</i> , 2022, 5, e2221343. | 5.9 | 1 |
| 89 | Operative Management of Spinal Injuries. <i>Current Trauma Reports</i> , 2015, 1, 193-202. | 1.3 | 0 |
| 90 | Sporadic NF2 Mosaic: Multiple spinal schwannomas presenting with severe, intractable pain following pregnancy. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2017, 10, 142-145. | 0.3 | 0 |

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|----|--|-----|-----------|
| 91 | Commentary: Survival Trends After Surgery for Spinal Metastatic Tumors: 20-Year Cancer Center Experience. <i>Neurosurgery</i> , 2020, 88, E140-E141. | 1.1 | 0 |
| 92 | Commentary: Use of Navigated Ultrasonic Bone Cutting Tool for En Bloc Resection of Thoracic Chondrosarcoma: Technical Report. <i>Operative Neurosurgery</i> , 2021, 20, E163-E164. | 0.8 | 0 |
| 93 | Commentary on “Steroids in the Management of Preoperative Neurological Deficits in Metastatic Spine Disease: Results From the EPOSO Study” <i>Neurospine</i> , 2022, 19, 51-52. | 2.9 | 0 |
| 94 | Attitudes and trends in the use of radiolucent spinal implants: A survey of the North American Spine Society section of spinal oncology. <i>North American Spine Society Journal (NASSJ)</i> , 2022, 10, 100105. | 0.5 | 0 |
| 95 | Commentary: Hybrid Therapy (Surgery and Radiosurgery) for the Treatment of Renal Cell Carcinoma Spinal Metastases. <i>Neurosurgery</i> , 2021, Publish Ahead of Print, . | 1.1 | 0 |
| 96 | Abstract 982: A new transcriptional metastatic signature predicts survival in clear cell renal cell carcinoma. <i>Cancer Research</i> , 2022, 82, 982-982. | 0.9 | 0 |
| 97 | Effects of rod diameter on kinematics of posterior cervical spine instrumented constructs: an ex vivo study. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 749-757. | 1.7 | 0 |