# Dino Samartzis

List of Publications by Year
in descending order



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|---|---|---|---|
| 121 papers | 4,137 citations | 172207 29 h-index | 138251 58 g-index |
| 123 all docs | 123 docs citations | 123 times ranked | 3326 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pathobiology of Modic changes. European Spine Journal, 2016, 25, 3723-3734. | 1.0 | 253 |
| 2 | A Population-Based Study of Juvenile Disc Degeneration and Its Association with Overweight and Obesity, Low Back Pain, and Diminished Functional Status. Journal of Bone and Joint Surgery - Series A, 2011, 93, 662-670. | 1.4 | 250 |
| 3 | Low back pain in older adults: risk factors, management options and future directions. Scoliosis and Spinal Disorders, 2017, 12, 14. | 2.3 | 239 |
| 4 | The association of lumbar intervertebral disc degeneration on magnetic resonance imaging with body mass index in overweight and obese adults: A populationâ€based study. Arthritis and Rheumatism, 2012, 64, 1488-1496. | 6.7 | 229 |
| 5 | Modic changes of the lumbar spine: prevalence, risk factors, and association with disc degeneration and low back pain in a large-scale population-based cohort. Spine Journal, 2016, 16, 32-41. | 0.6 | 192 |
| 6 | Deciphering osteoarthritis genetics across 826,690 individuals from 9 populations. Cell, 2021, 184, 4784-4818.e17. | 13.5 | 188 |
| 7 | Degenerative Magnetic Resonance Imaging Changes in Patients With Chronic Low Back Pain. Spine, 2011, 36, S43-S53. | 1.0 | 160 |
| 8 | ISSLS Prize Winner: Prevalence, Determinants, and Association of Schmorl Nodes of the Lumbar Spine With Disc Degeneration. Spine, 2010, 35, 1944-1952. | 1.0 | 126 |
| 9 | Congenital lumbar spinal stenosis: a prospective, control-matched, cohort radiographic analysis. Spine Journal, 2005, 5, 615-622. | 0.6 | 107 |
| 10 | Chronic Low Back Pain. Spine, 2011, 36, S1-S9. | 1.0 | 103 |
| 11 | ISSLS Prize Winner: Consensus on the Clinical Diagnosis of Lumbar Spinal Stenosis. Spine, 2016, 41, 1239-1246. | 1.0 | 98 |
| 12 | Genetic Association Studies in Lumbar Disc Degeneration: A Systematic Review. PLoS ONE, 2012, 7, e49995. | 1.1 | 90 |
| 13 | Phenotype profiling of Modic changes of the lumbar spine and its association with other MRI phenotypes: a large-scale population-based study. Spine Journal, 2015, 15, 1933-1942. | 0.6 | 79 |
| 14 | Nonsurgical Management of Acute and Chronic Low Back Pain. Journal of the American Academy of Orthopaedic Surgeons, The, 2006, 14, 477-487. | 1.1 | 75 |
| 15 | Refined Phenotyping of Modic Changes. Medicine (United States), 2016, 95, e3495. | 0.4 | 68 |
| 16 | Management of Degenerative Disk Disease and Chronic Low Back Pain. Orthopedic Clinics of North America, 2011, 42, 513-528. | 0.5 | 66 |
| 17 | Are â€œPatternsâ€•of Lumbar Disc Degeneration Associated With Low Back Pain?. Spine, 2012, 37, E430-E438. | 1.0 | 64 |
| 18 | Novel diagnostic and prognostic methods for disc degeneration and low back pain. Spine Journal, 2015, 15, 1919-1932. | 0.6 | 62 |

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|---|---|---|---|
| 19 | Rod Lengthening With the Magnetically Controlled Growing Rod. Spine, 2018, 43, E399-E405. | 1.0 | 54 |
| 20 | Two subtypes of intervertebral disc degeneration distinguished by large-scale population-based study. Spine Journal, 2016, 16, 1079-1089. | 0.6 | 51 |
| 21 | The Impact of COVID-19 Pandemic on Spine Surgeons Worldwide. Global Spine Journal, 2020, 10, 534-552. | 1.2 | 50 |
| 22 | Intervertebral disc degeneration: New insights based on â€œskippedâ€•level disc pathology. Arthritis and Rheumatism, 2010, 62, 2392-2400. | 6.7 | 48 |
| 23 | Multidimensional vertebral endplate defects are associated with disc degeneration, modic changes, facet joint abnormalities, and pain. Journal of Orthopaedic Research, 2019, 37, 1080-1089. | 1.2 | 48 |
| 24 | Critical Values of Facet Joint Angulation and Tropism in the Development of Lumbar Degenerative Spondylolisthesis: An International, Large-Scale Multicenter Study by the AOSpine Asia Pacific Research Collaboration Consortium. Global Spine Journal, 2016, 6, 414-421. | 1.2 | 46 |
| 25 | Exposure to Ionizing Radiation and Development of Bone Sarcoma: New Insights Based on Atomic-Bomb Survivors of Hiroshima and Nagasaki. Journal of Bone and Joint Surgery - Series A, 2011, 93, 1008-1015. | 1.4 | 42 |
| 26 | Geography of Lumbar Paravertebral Muscle Fatty Infiltration. Spine, 2019, 44, 1294-1302. | 1.0 | 41 |
| 27 | Structural vertebral endplate nomenclature and etiology: a study by the ISSLS Spinal Phenotype Focus Group. European Spine Journal, 2018, 27, 2-12. | 1.0 | 38 |
| 28 | Defining Clinically Relevant Values for Developmental Spinal Stenosis. Spine, 2014, 39, 1067-1076. | 1.0 | 37 |
| 29 | Mechanisms and clinical implications of intervertebral disc calcification. Nature Reviews Rheumatology, 2022, 18, 352-362. | 3.5 | 33 |
| 30 | Genome-wide association studies of lumbar disc degenerationâ€”are we there yet?. Spine Journal, 2014, 14, 479-482. | 0.6 | 31 |
| 31 | Imaging in Spine Surgery: Current Concepts and Future Directions. Spine Surgery and Related Research, 2020, 4, 99-110. | 0.4 | 31 |
| 32 | Classification of High Intensity Zones of the Lumbar Spine and Their Association with Other Spinal MRI Phenotypes: The Wakayama Spine Study. PLoS ONE, 2016, 11, e0160111. | 1.1 | 30 |
| 33 | Ionizing Radiation Exposure and the Development of Soft-Tissue Sarcomas in Atomic-Bomb Survivors. Journal of Bone and Joint Surgery - Series A, 2013, 95, 222-229. | 1.4 | 29 |
| 34 | The association of high-intensity zones on MRI and low back pain: a systematic review. Scoliosis and Spinal Disorders, 2018, 13, 22. | 2.3 | 28 |
| 35 | Spine surgeon perceptions of the challenges and benefits of telemedicine: an international study. European Spine Journal, 2021, 30, 2124-2132. | 1.0 | 28 |
| 36 | Minimally Invasive Spine Surgery: A Historical Perspective. Orthopedic Clinics of North America, 2007, 38, 305-326. | 0.5 | 27 |

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|---|---|---|---|
| 37 | Characterization and Predictive Value of Segmental Curve Flexibility in Adolescent Idiopathic Scoliosis Patients. Spine, 2017, 42, 1622-1628. | 1.0 | 27 |
| 38 | An International Multicenter Study Assessing the Role of Ethnicity on Variation of Lumbar Facet Joint Orientation and the Occurrence of Degenerative Spondylolisthesis in Asia Pacific: A Study from the AOSpine Asia Pacific Research Collaboration Consortium. Global Spine Journal, 2016, 6, 35-45. | 1.2 | 26 |
| 39 | Lumbar high-intensity zones on MRI: imaging biomarkers for severe, prolonged low back pain and sciatica in a population-based cohort. Spine Journal, 2020, 20, 1025-1034. | 0.6 | 26 |
| 40 | Development of a standardized histopathology scoring system for human intervertebral disc degeneration: an Orthopaedic Research Society Spine Section Initiative. JOR Spine, 2021, 4, e1167. | 1.5 | 25 |
| 41 | Clarifying the nomenclature of intervertebral disc degeneration and displacement: from bench to bedside. International Journal of Clinical and Experimental Pathology, 2014, 7, 1293-8. | 0.5 | 25 |
| 42 | The UTE Disc Sign on MRI. Spine, 2018, 43, 503-511. | 1.0 | 24 |
| 43 | Intelligence-Based Spine Care Model: A New Era of Research and Clinical Decision-Making. Global Spine Journal, 2021, 11, 135-145. | 1.2 | 24 |
| 44 | Radiographic cervical spine degenerative findings: a study on a large population from age 18 to 97Âyears. European Spine Journal, 2021, 30, 431-443. | 1.0 | 24 |
| 45 | Selection of fusion levels using the fulcrum bending radiograph for the management of adolescent idiopathic scoliosis patients with alternate level pedicle screw strategy: clinical decision-making and outcomes. PLoS ONE, 2015, 10, e0120302. | 1.1 | 23 |
| 46 | The paradoxicalÂrelationship between ligamentum flavum hypertrophy and developmental lumbar spinal stenosis. Scoliosis and Spinal Disorders, 2016, 11, 26. | 2.3 | 23 |
| 47 | Is lumbar facet joint tropism developmental or secondary to degeneration? An international, large-scale multicenter study by the AOSpine Asia Pacific Research Collaboration Consortium. Scoliosis and Spinal Disorders, 2016, 11, 9. | 2.3 | 23 |
| 48 | Demographic, Surgical, and Radiographic Risk Factors for Symptomatic Adjacent Segment Disease After Lumbar Fusion. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1438-1450. | 1.4 | 23 |
| 49 | Reproducibility of thoracic kyphosis measurements in patients with adolescent idiopathic scoliosis. Scoliosis and Spinal Disorders, 2017, 12, 4. | 2.3 | 22 |
| 50 | Low back pain in children: a rising concern. European Spine Journal, 2019, 28, 211-213. | 1.0 | 22 |
| 51 | Etiology of developmental spinal stenosis: A genomeâ€wide association study. Journal of Orthopaedic Research, 2018, 36, 1262-1268. | 1.2 | 22 |
| 52 | Artificial intelligence in spine care: current applications and future utility. European Spine Journal, 2022, 31, 2057-2081. | 1.0 | 21 |
| 53 | Fundamentals of Clinical Outcomes Assessment for Spinal Disorders: Study Designs, Methodologies, and Analyses. Global Spine Journal, 2015, 5, 156-164. | 1.2 | 20 |
| 54 | Provider confidence in the telemedicine spine evaluation: results from a global study. European Spine Journal, 2020, 30, 2109-2123. | 1.0 | 19 |

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|---|---|---|---|
| 55 | A definition and clinical grading of Modic changes. Journal of Orthopaedic Research, 2022, 40, 301-307. | 1.2 | 19 |
| 56 | Intervertebral disc â€œdysgenerationâ€• Spine Journal, 2015, 15, 1915-1918. | 0.6 | 18 |
| 57 | The association of lumbar intervertebral disc calcification on plain radiographs with the UTE Disc Sign on MRI. European Spine Journal, 2018, 27, 1049-1057. | 1.0 | 17 |
| 58 | Perioperative Anticoagulation Management in Spine Surgery: Initial Findings From the AO Spine Anticoagulation Global Survey. Global Spine Journal, 2020, 10, 512-527. | 1.2 | 17 |
| 59 | Artificial intelligence predicts disk re-herniation following lumbar microdiscectomy: development of the â€œRADâ€•risk profile. European Spine Journal, 2021, 30, 2167-2175. | 1.0 | 17 |
| 60 | COVID-19 and the rise of virtual medicine in spine surgery: a worldwide study. European Spine Journal, 2021, 30, 2133-2142. | 1.0 | 17 |
| 61 | Spinopelvic alignment predicts disc calcification, displacement, and Modic changes: Evidence of an evolutionary etiology for clinicallyâ€•relevant spinal phenotypes. JOR Spine, 2020, 3, e1083. | 1.5 | 16 |
| 62 | Serum biomarkers for Modic changes in patients with chronic low back pain. European Spine Journal, 2021, 30, 1018-1027. | 1.0 | 16 |
| 63 | The â€œX-Factorâ€•Index: a new parameter for the assessment of adolescent idiopathic scoliosis correction. European Spine Journal, 2011, 20, 144-150. | 1.0 | 15 |
| 64 | Cervical Spine Endplate Abnormalities and Association With Pain, Disability, and Adjacent Segment Degeneration After Anterior Cervical Discectomy and Fusion. Spine, 2020, 45, E917-E926. | 1.0 | 15 |
| 65 | Differences in Proprioception Between Young and Middle-Aged Adults With and Without Chronic Low Back Pain. Frontiers in Neurology, 2020, 11, 605787. | 1.1 | 14 |
| 66 | Clinical implications of lumbar developmental spinal stenosis on back pain, radicular leg pain, and disability. Bone and Joint Journal, 2021, 103-B, 131-140. | 1.9 | 14 |
| 67 | ISSLS PRIZE in Clinical Science 2022: Epidemiology, risk factors and clinical impact of juvenile Modic changes in paediatric patients with low back pain. European Spine Journal, 2022, 31, 1069-1079. | 1.0 | 14 |
| 68 | Cervical spine MRI phenotypes and prediction of pain, disability and adjacent segment degeneration/disease after ACDF. Journal of Orthopaedic Research, 2021, 39, 657-670. | 1.2 | 13 |
| 69 | Etiology-Based Classification of Adjacent Segment Disease Following Lumbar Spine Fusion. HSS Journal, 2020, 16, 130-136. | 0.7 | 12 |
| 70 | Selection of the lowest instrumented vertebra in main thoracic adolescent idiopathic scoliosis: Is it safe to fuse shorter than the last touched vertebra?. European Spine Journal, 2020, 29, 2018-2024. | 1.0 | 12 |
| 71 | Does Motor Control Exercise Restore Normal Morphology of Lumbar Multifidus Muscle in People with Low Back Pain? â€“ A Systematic Review. Journal of Pain Research, 2021, Volume 14, 2543-2562. | 0.8 | 12 |
| 72 | Image-Based Markers Predict Dynamic Instability in Lumbar Degenerative Spondylolisthesis. Neurospine, 2020, 17, 221-227. | 1.1 | 12 |

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|---|---|---|---|
| 73 | Lumbar Spinal Stenosis. Journal of the American Academy of Orthopaedic Surgeons, The, 2008, 16, 171-176. | 1.1 | 12 |
| 74 | Detailed Subphenotyping of Lumbar Modic Changes and Their Association with Low Back Pain in a Large Population-Based Study: The Wakayama Spine Study. Pain and Therapy, 2022, 11, 57-71. | 1.5 | 12 |
| 75 | Differential Effects of the COVID-19 Pandemic on Physical Activity Involvements and Exercise Habits in People With and Without Chronic Diseases: A Systematic Review and Meta-analysis. Archives of Physical Medicine and Rehabilitation, 2022, 103, 1448-1465.e6. | 0.5 | 12 |
| 76 | Learning from the past: did experience with previous epidemics help mitigate the impact of COVID-19 among spine surgeons worldwide?. European Spine Journal, 2020, 29, 1789-1805. | 1.0 | 11 |
| 77 | Telemedicine in Spine Surgery: Global Perspectives and Practices. Global Spine Journal, 2023, 13, 1200-1211. | 1.2 | 11 |
| 78 | Disk Degeneration and Pain. Global Spine Journal, 2013, 3, 125-126. | 1.2 | 10 |
| 79 | Changes in Vertebral Strain Energy Correlate With Increased Presence of Schmorl's Nodes in Multi-Level Lumbar Disk Degeneration. Journal of Biomechanical Engineering, 2014, 136, 061002. | 0.6 | 10 |
| 80 | Low back pain in older adults – the need for specific outcome and psychometric tools. Journal of Pain Research, 2016, Volume 9, 989-991. | 0.8 | 10 |
| 81 | The profile of the spinal column in subjects with lumbar developmental spinal stenosis. Bone and Joint Journal, 2021, 103-B, 725-733. | 1.9 | 10 |
| 82 | Artificial intelligence and spine imaging: limitations, regulatory issues and future direction. European Spine Journal, 2022, , 1. | 1.0 | 10 |
| 83 | Lumbar Intervertebral Disk Degeneration. Orthopedic Clinics of North America, 2011, 42, xi-xii. | 0.5 | 9 |
| 84 | Ionizing radiation exposure and the development of intervertebral disc degeneration in humans: myth or reality. Spine Journal, 2011, 11, 979-982. | 0.6 | 9 |
| 85 | Differential patient responses to spinal manipulative therapy and their relation to spinal degeneration and post-treatment changes in disc diffusion. European Spine Journal, 2019, 28, 259-269. | 1.0 | 9 |
| 86 | Spine Surgery and COVID-19: The Influence of Practice Type on Preparedness, Response, and Economic Impact. Global Spine Journal, 2022, 12, 249-262. | 1.2 | 9 |
| 87 | Prevalence and Definition of Multilevel Lumbar Developmental Spinal Stenosis. Global Spine Journal, 2022, 12, 1084-1090. | 1.2 | 9 |
| 88 | The Impact of Modic Changes on Preoperative Symptoms and Clinical Outcomes in Anterior Cervical Discectomy and Fusion Patients. Neurospine, 2020, 17, 190-203. | 1.1 | 9 |
| 89 | Global Consensus From Clinicians Regarding Low Back Pain Outcome Indicators for Older Adults: Pairwise Wiki Survey Using Crowdsourcing. JMIR Rehabilitation and Assistive Technologies, 2019, 6, e11127. | 1.1 | 9 |
| 90 | Quantum Computing: The Future of Big Data and Artificial Intelligence in Spine. Spine Surgery and Related Research, 2022, 6, 93-98. | 0.4 | 9 |

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|---|---|---|---|
| 91 | Artificial intelligence in predicting early-onset adjacent segment degeneration following anterior cervical discectomy and fusion. European Spine Journal, 2022, 31, 2104-2114. | 1.0 | 9 |
| 92 | Precision Spine Care: A New Era of Discovery, Innovation, and Global Impact. Global Spine Journal, 2018, 8, 321-322. | 1.2 | 8 |
| 93 | A Prospective, 3-year Longitudinal Study of Modic Changes of the Lumbar Spine in a Population-based Cohort. Spine, 2022, 47, 490-497. | 1.0 | 8 |
| 94 | Disappearing bone disease of the humerus and the cervico-thoracic spine: a case report with 42-year follow-up. Spine Journal, 2016, 16, e67-e75. | 0.6 | 7 |
| 95 | Is Scoliosis Associated with Dance Injury in Young Recreational Dancers? A Large-Scale Cross-Sectional Epidemiological Study. Journal of Dance Medicine and Science, 2022, 26, 41-49. | 0.2 | 7 |
| 96 | Are Morphometric and Biomechanical Characteristics of Lumbar Multifidus Related to Pain Intensity or Disability in People With Chronic Low Back Pain After Considering Psychological Factors or Insomnia?. Frontiers in Psychiatry, 2022, 13, 809891. | 1.3 | 7 |
| 97 | Cervical open-door laminoplasty technique with simple sutures and bone grafts: a single institutional study with 30 consecutive cases. Journal of Orthopaedic Surgery and Research, 2015, 10, 14. | 0.9 | 6 |
| 98 | Predictability of Coronal Curve Flexibility in Postoperative Curve Correction in Adolescent Idiopathic Scoliosis: The Effect of the Sagittal Profile. Global Spine Journal, 2020, 10, 303-311. | 1.2 | 6 |
| 99 | COVID â€19: Current and future challenges in spine care and education â€a worldwide study. JOR Spine, 2020, 3, e1122. | 1.5 | 6 |
| 100 | The Modicâ€endplateâ€complex phenotype in cervical spine patients: Association with symptoms and outcomes. Journal of Orthopaedic Research, 2022, 40, 449-459. | 1.2 | 6 |
| 101 | Telemedicine in research and training: spine surgeon perspectives and practices worldwide. European Spine Journal, 2021, 30, 2143-2149. | 1.0 | 6 |
| 102 | Oral Zoledronic acid bisphosphonate for the treatment of chronic low back pain with associated Modic changes: A pilot randomized controlled trial. Journal of Orthopaedic Research, 2022, 40, 2924-2936. | 1.2 | 6 |
| 103 | Sagittal spinopelvic malalignment in degenerative scoliosis patients: isolated correction of symptomatic levels and clinical decision-making. Scoliosis and Spinal Disorders, 2018, 13, 28. | 2.3 | 5 |
| 104 | The Global Spine Community and COVID-19. Spine, 2020, 45, E754-E757. | 1.0 | 5 |
| 105 | Epidemiology of Lumbar Degenerative Phenotypes of Children and Adolescents: A Large-Scale Imaging Study. Global Spine Journal, 2023, 13, 599-608. | 1.2 | 5 |
| 106 | Pedigree analysis of lumbar developmental spinal stenosis: Determination of potential inheritance patterns. Journal of Orthopaedic Research, 2021, 39, 1763-1776. | 1.2 | 4 |
| 107 | Development and validation of a novel scoring tool for predicting facility discharge after elective posterior lumbar fusion. Spine Journal, 2020, 20, 1629-1637. | 0.6 | 4 |
| 108 | The Concept of Laminaâ€“Pedicle Perpendicularity: Part 1. Lumbar Spine. Asian Spine Journal, 2021, 15, 81-88. | 0.8 | 4 |

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|---|---|---|---|
| 109 | The Concept of Laminaâ€“Pedicle Perpendicularity: Part 2: Thoracic Spine. Asian Spine Journal, 2021, 15, 252-260. | 0.8 | 3 |
| 110 | Personal Health of Spine Surgeons Can Impact Perceptions, Decision-Making and Healthcare Delivery During the COVID-19 Pandemic - A Worldwide Study. Neurospine, 2020, 17, 313-330. | 1.1 | 3 |
| 111 | Learning-based fully automated prediction of lumbar disc degeneration progression with specified clinical parameters and preliminary validation. European Spine Journal, 2022, 31, 1960-1968. | 1.0 | 3 |
| 112 | Endplate abnormalities, Modic changes and their relationship to alignment parameters and surgical outcomes in the cervical spine. Journal of Orthopaedic Research, 2022, , . | 1.2 | 3 |
| 113 | AOSpine Knowledge Forums: Research in Motion. Global Spine Journal, 2019, 9, 5S-7S. | 1.2 | 2 |
| 114 | Patients Undergoing 3-Level-or-Greater Decompression-Only Surgery for Lumbar Spinal Stenosis Have Similar Outcomes to Those Undergoing Single-Level Surgery at 2 Years. International Journal of Spine Surgery, 2021, 15, 8124. | 0.7 | 2 |
| 115 | High-Intensity Zones on MRI of the Cervical Spine in Patients: Epidemiology and Association With Pain and Disability. Global Spine Journal, 2020, , 219256822096632. | 1.2 | 1 |
| 116 | Vertebral endplate abnormalities, defects, and changes. , 2022, , 203-222. | | 1 |
| 117 | John P. Oâ€™Brien. Spine, 2020, 45, 635-640. | 1.0 | 0 |
| 118 | Robert Gunzburg and Marek Szpalski: 2022 ISSLS Wiltse Lifetime Achievement Award. Spine, 2022, Publish Ahead of Print, . | 1.0 | 0 |
| 119 | Lumbar spinal stenosis. , 2022, , 283-318. | | 0 |
| 120 | Vertebral bone marrow (Modic) changes. , 2022, , 223-252. | | 0 |
| 121 | Intervertebral disc degeneration. , 2022, , 105-135. | | 0 |