

Carlos Barrios

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

1,748
citations

257450

24
h-index

315739

38
g-index

100
all docs

100
docs citations

100
times ranked

1848
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Distal chevron osteotomy versus different operative procedures for hallux valgus correction: a meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 80. | 2.3 | 4 |
| 2 | Bone Quality in Patients with Parkinson's Disease Determined by Quantitative Ultrasound (QUS) of the Calcaneus: Influence of Sex Differences. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2804. | 2.6 | 3 |
| 3 | Pulse-train versus single-pulse t-EMG stimulation for intraoperative neurophysiologic monitoring of thoracic pedicle screws in adolescent idiopathic scoliosis. <i>Clinical Neurology and Neurosurgery</i> , 2022, 215, 107207. | 1.4 | 1 |
| 4 | Vertebral Coplanar Alignment Technique Versus Bilateral Apical Vertebral Derotation Technique in Neuromuscular Scoliosis. <i>Global Spine Journal</i> , 2021, , 219256822199231. | 2.3 | 0 |
| 5 | Muscle Function Differences between Patients with Bulbar and Spinal Onset Amyotrophic Lateral Sclerosis. Does It Depend on Peripheral Glucose?. <i>Journal of Clinical Medicine</i> , 2021, 10, 1582. | 2.4 | 3 |
| 6 | Relationship of Overweight and Obesity with Body Self-Image Dissatisfaction in Urban Mediterranean Adolescents. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7770. | 2.6 | 7 |
| 7 | Modification of Diurnal Cortisol Secretion in Women's Professional Basketball. A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8961. | 2.6 | 0 |
| 8 | Acute Effects of Tecar Therapy on Skin Temperature, Ankle Mobility and Hyperalgesia in Myofascial Pain Syndrome in Professional Basketball Players: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8756. | 2.6 | 9 |
| 9 | Influence of Foot Type on the Clinical Outcome of Minimally Invasive Surgery for Metatarsalgia. A Prospective Pilot Study. <i>Frontiers in Surgery</i> , 2021, 8, 748330. | 1.4 | 3 |
| 10 | Cardiorespiratory function of patients undergoing surgical correction of Scheuermann's hyperkyphosis. <i>Scientific Reports</i> , 2021, 11, 20138. | 3.3 | 2 |
| 11 | Differences in Adiposity Profile and Body Fat Distribution between Forwards and Backs in Sub-Elite Spanish Female Rugby Union Players. <i>Journal of Clinical Medicine</i> , 2021, 10, 5713. | 2.4 | 6 |
| 12 | A meta-analysis of bone morphogenetic protein-2 versus iliac crest bone graft for the posterolateral fusion of the lumbar spine. <i>Journal of Bone and Mineral Metabolism</i> , 2020, 38, 54-62. | 2.7 | 13 |
| 13 | Orthopedic treatment and early weight-bearing for bimalleolar ankle fractures in elderly patients: Quality of life and complications. <i>Injury</i> , 2020, 51, 548-553. | 1.7 | 11 |
| 14 | Efficacy and Safety of Anti-Interleukin-17A Monoclonal Antibody Secukinumab in Treatment of Ankylosing Spondylitis: A Meta-Analysis. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2020, 39, 160-166. | 1.6 | 5 |
| 15 | Changes in Salivary Levels of Creatine Kinase, Lactate Dehydrogenase, and Aspartate Aminotransferase after Playing Rugby Sevens: The Influence of Gender. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8165. | 2.6 | 8 |
| 16 | Poor Bone Quality in Patients With Amyotrophic Lateral Sclerosis. <i>Frontiers in Neurology</i> , 2020, 11, 599216. | 2.4 | 6 |
| 17 | Occupational risk factors for shoulder chronic tendinous pathology in the Spanish automotive manufacturing sector: a case-control study. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 818. | 1.9 | 9 |
| 18 | Safety of Romosozumab in Osteoporotic Men and Postmenopausal Women: A Meta-Analysis and Systematic Review. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2020, 39, 29-36. | 1.6 | 8 |

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|----|--|-----|-----------|
| 19 | Antioxidant Alternatives in the Treatment of Amyotrophic Lateral Sclerosis: A Comprehensive Review. <i>Frontiers in Physiology</i> , 2020, 11, 63. | 2.8 | 53 |
| 20 | Satisfactory restoration of thoracic kyphosis in Lenke I AIS curves using bilateral vertebral coplanar alignment: an international multicenter experience. <i>Spine Deformity</i> , 2020, 8, 469-479. | 1.5 | 3 |
| 21 | Accuracy of t-EMG stimulation of the middle pedicle track to prevent radiculopathies as a result of misplaced lumbar screws. <i>Clinical Neurology and Neurosurgery</i> , 2020, 195, 105915. | 1.4 | 1 |
| 22 | Validation of the concavity-convexity quotient as a new method to measure the magnitude of scoliosis. <i>Journal of Craniovertebral Junction and Spine</i> , 2020, 11, 31. | 0.8 | 0 |
| 23 | Severe hyperkyphosis reduces the aerobic capacity and maximal exercise tolerance in patients with Scheuermann disease. <i>Spine Journal</i> , 2019, 19, 330-338. | 1.3 | 4 |
| 24 | Design of a Three-Dimensional-Printed Surgical Glove for Minimal-Incision Podiatric Surgery. <i>Journal of the American Podiatric Medical Association</i> , 2019, 109, 207-214. | 0.3 | 2 |
| 25 | The impact of associated tenotomies on the outcome of incomplete phalangeal osteotomies for lesser toe deformities. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 308. | 2.3 | 12 |
| 26 | Localization of Muscle Edema and Changes on Muscle Contractility After Dry Needling of Latent Trigger Points in the Gastrocnemius Muscle. <i>Pain Medicine</i> , 2019, 20, 1387-1394. | 1.9 | 28 |
| 27 | Efficacy and tolerability of EH301 for amyotrophic lateral sclerosis: a randomized, double-blind, placebo-controlled human pilot study. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2019, 20, 115-122. | 1.7 | 62 |
| 28 | Adiposity-Age Distribution and Nutritional Status in Girls With Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2019, 7, 565-570. | 1.5 | 1 |
| 29 | Relevant advances in bone lengthening research: a bibliometric analysis of the 100 most-cited articles published from 2001 to 2017. <i>Journal of Pediatric Orthopaedics Part B</i> , 2019, 28, 495-504. | 0.6 | 5 |
| 30 | A study of reproducibility of kinesiology tape applications: review, reliability and validity. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 153. | 1.9 | 8 |
| 31 | Changes in different salivary biomarkers related to physiologic stress in elite handball players: the case of females. <i>Scientific Reports</i> , 2019, 9, 19554. | 3.3 | 9 |
| 32 | Radiological Evaluation Does Not Reflect the Clinical Outcome After Surgery in Unstable Thoracolumbar and Lumbar Type A Fractures Without Neurological Symptoms. <i>Clinical Spine Surgery</i> , 2019, 32, E117-E125. | 1.3 | 8 |
| 33 | Bone quality in young adults with intellectual disability involved in adapted competitive football. <i>European Journal of Sport Science</i> , 2019, 19, 850-859. | 2.7 | 3 |
| 34 | Frequency and characteristics of congenital intraspinal abnormalities in a cohort of 128 patients with congenital scoliosis. <i>Journal of Craniovertebral Junction and Spine</i> , 2019, 10, 229. | 0.8 | 1 |
| 35 | Novel porcine experimental model of severe progressive thoracic scoliosis with compensatory curves induced by interpedicular bent rigid temporary tethering. <i>Journal of Orthopaedic Research</i> , 2018, 36, 174-182. | 2.3 | 3 |
| 36 | Clinical and radiological outcomes after stand-alone ALIF for single L5-S1 degenerative discopathy using a PEEK cage filled with hydroxyapatite nanoparticles without bone graft. <i>Clinical Neurology and Neurosurgery</i> , 2018, 168, 24-29. | 1.4 | 13 |

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|----|--|-----|-----------|
| 37 | Vertebrectomía total y acortamiento vertebral en el manejo de luxación vertebral T12-L1: manejo con medios subóptimos. Neurocirugía, 2018, 29, 304-308. | 0.4 | 3 |
| 38 | The effect of adhesives on inflammatory immune markers during renal injury healing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1444-1455. | 3.4 | 0 |
| 39 | Analysis of the conflicts of interest disclosed by the program reviewers of the scoliosis research society (SRS) congresses, 2010-2014. PLoS ONE, 2018, 13, e0204993. | 2.5 | 1 |
| 40 | Predominance of Studies With Poor Level of Evidence Among the Top 100 Most Cited Studies on Idiopathic Scoliosis: A Bibliometric and Content Analysis. Spine Deformity, 2018, 6, 373-383. | 1.5 | 7 |
| 41 | Neurophysiological monitoring during acute and progressive experimentally induced compression injury of the spinal cord in pigs. European Spine Journal, 2017, 26, 49-55. | 2.2 | 3 |
| 42 | Women's acute anxiety variations before and after epidural anesthesia for childbirth. Journal of Psychosomatic Obstetrics and Gynaecology, 2017, 38, 152-158. | 2.1 | 7 |
| 43 | Cardiorespiratory Function Does Not Improve 2 Years After Posterior Surgical Correction of Adolescent Idiopathic Scoliosis. Spine, 2017, 42, 1391-1397. | 2.0 | 13 |
| 44 | The effect of biological sealants and adhesive treatments on matrix metalloproteinase expression during renal injury healing. PLoS ONE, 2017, 12, e0177665. | 2.5 | 4 |
| 45 | Randomized clinical trial of a new cyanoacrylate flexible tissue adhesive (Adhflex) for repairing surgical wounds. Wound Repair and Regeneration, 2016, 24, 568-580. | 3.0 | 6 |
| 46 | Multidisciplinary Approach to Neoadjuvant Endocrine Therapy in Breast Cancer: A Comprehensive Review. Revista Brasileira De Ginecologia E Obstetricia, 2016, 38, 615-622. | 0.8 | 10 |
| 47 | Behaviour of the Biological Adhesives TachoSil®, GelitaSpon®, and a New Elastic Cyanoacrylate (Adhflex®) in Experimental Renal Trauma and Wound Healing. European Surgical Research, 2016, 56, 164-179. | 1.3 | 3 |
| 48 | Influence of Cognitive Interferences and Self-Talk Functions on Performance During Competition in Elite Female Field Hockey Players. Journal of Strength and Conditioning Research, 2016, 30, 3339-3346. | 2.1 | 2 |
| 49 | Adjacent segment degeneration and revision surgery after circumferential lumbar fusion: outcomes throughout 15 years of follow-up. European Spine Journal, 2016, 25, 1550-1557. | 2.2 | 55 |
| 50 | Clinical Outcomes and Complications After Pedicle-anchored Dynamic or Hybrid Lumbar Spine Stabilization. Journal of Spinal Disorders and Techniques, 2015, 28, E439-E448. | 1.9 | 36 |
| 51 | Polyurethane on titanium unconstrained disc arthroplasty versus anterior discectomy and fusion for the treatment of cervical disc disease: a review of level II randomized clinical trials including clinical outcomes. European Spine Journal, 2015, 24, 2735-2745. | 2.2 | 14 |
| 52 | Surgical resection of massive liposarcomas at the extremities: a 10-year experience in a referral musculoskeletal sarcoma unit. World Journal of Surgical Oncology, 2015, 13, 206. | 1.9 | 8 |
| 53 | Cervical and Thoracic Sagittal Misalignment After Surgery for Adolescent Idiopathic Scoliosis. Spine, 2014, 39, 1330-1337. | 2.0 | 26 |
| 54 | Abdominal muscle EMG-activity during bridge exercises on stable and unstable surfaces. Physical Therapy in Sport, 2014, 15, 162-168. | 1.9 | 69 |

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|----|---|-----|-----------|
| 55 | Intraoperative Neurophysiological Changes Induced by Thoracic Pedicle Screws Intentionally Placed Within the Spinal Canal: An Experimental Study in Pigs. <i>Spine Deformity</i> , 2014, 2, 89-94. | 1.5 | 3 |
| 56 | Influence of hypotension and nerve root section on the ability to mobilize the spinal cord during spine surgery. An experimental study in a pig model. <i>Spine Journal</i> , 2014, 14, 1300-1307. | 1.3 | 2 |
| 57 | Somatosensory cortexotomy induces motor cortical hyperexcitability and scoliosis: an experimental study in developing rats. <i>Spine Journal</i> , 2013, 13, 938-946. | 1.3 | 9 |
| 58 | Antioxidants and Gabapentin Prevent Heat Hypersensitivity in a Neuropathic Pain Model. <i>Journal of Investigative Surgery</i> , 2013, 26, 109-117. | 1.3 | 8 |
| 59 | Resultado a largo plazo de las fusiones largas espinopelvicas en escoliosis: importancia de la edad, la capacidad de marcha y el tipo de fijaci3n ilAaca. <i>Coluna/ Columna</i> , 2013, 12, 285-290. | 0.2 | 1 |
| 60 | Resultados postoperatorios inmediatos y a largo plazo de un abordaje mini-invasivo para la correcci3n de escoliosis idiop3tica del adolescente. <i>Coluna/ Columna</i> , 2013, 12, 291-295. | 0.2 | 2 |
| 61 | Incidence and risk for traumatic and overuse injuries in top-level road cyclists. <i>Journal of Sports Sciences</i> , 2012, 30, 1047-1053. | 2.0 | 62 |
| 62 | Safe Pedicle Screw Placement in Thoracic Scoliotic Curves Using t-EMG. <i>Spine</i> , 2012, 37, E387-E395. | 2.0 | 26 |
| 63 | Electromyographic thresholds after thoracic screw stimulation depend on the distance of the screw from the spinal cord and not on pedicle cortex integrity. <i>Spine Journal</i> , 2012, 12, 127-132. | 1.3 | 19 |
| 64 | Guest speakers lectures, oral presentations, clinical case presentations. <i>ArgoSpine News and Journal</i> , 2012, 24, 95-142. | 0.1 | 0 |
| 65 | Ewing's sarcoma of the spine with initial myeloradicular involvement in children and adolescents. <i>European Orthopaedics and Traumatology</i> , 2012, 3, 189-194. | 0.1 | 2 |
| 66 | Anthropometry and Body Composition Profile of Girls With Nonsurgically Treated Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2011, 36, 1470-1477. | 2.0 | 61 |
| 67 | Metabolic muscle damage and oxidative stress markers in an America's Cup yachting crew. <i>European Journal of Applied Physiology</i> , 2011, 111, 1341-1350. | 2.5 | 17 |
| 68 | Recording triggered EMG thresholds from axillary chest wall electrodes: a new refined technique for accurate upper thoracic (T2-T6) pedicle screw placement. <i>European Spine Journal</i> , 2011, 20, 1620-1625. | 2.2 | 17 |
| 69 | Vertebral growth modulation by hemicircumferential electrocoagulation: an experimental study in pigs. <i>European Spine Journal</i> , 2011, 20, 367-375. | 2.2 | 9 |
| 70 | Motor cortical hyperexcitability in idiopathic scoliosis: could focal dystonia be a subclinical etiological factor?. <i>European Spine Journal</i> , 2010, 19, 223-230. | 2.2 | 37 |
| 71 | Reply to a critical commentary of the paper entitled "Sport injuries in an America's Cup yachting crew: A 4-year epidemiological study covering the 2007 challenge". <i>Journal of Sports Sciences</i> , 2010, 28, 1141-1144. | 2.0 | 0 |
| 72 | Mood Profile of an America's Cup Team. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1403-1408. | 0.4 | 7 |

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|----|---|-----|-----------|
| 73 | Sports injuries in an America's Cup yachting crew: A 4-year epidemiological study covering the 2007 challenge. <i>Journal of Sports Sciences</i> , 2009, 27, 711-717. | 2.0 | 15 |
| 74 | P159. EMG Thresholds after Thoracic Screw Stimulation are Dependent of Distance from Screw to Spinal Cord, But No of the Pedicle Cortex Integrity: Experimental and Clinic Support. <i>Spine Journal</i> , 2009, 9, 196S. | 1.3 | 1 |
| 75 | Recording Diffusion Responses From Contralateral Intercostal Muscles After Stimulus-Triggered Electromyography. <i>Spine</i> , 2009, 34, E391-E396. | 2.0 | 12 |
| 76 | Different Strategies for Sports Injury Prevention in an America's Cup Yachting Crew. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 1587-1596. | 0.4 | 35 |
| 77 | P097 Stiulus-trigered EMG of the thoracic pedicle screws in scoliotic deformity. <i>Clinical Neurophysiology</i> , 2008, 119, S96. | 1.5 | 1 |
| 78 | Significant Ventilatory Functional Restriction in Adolescents With Mild or Moderate Scoliosis During Maximal Exercise Tolerance Test. <i>Spine</i> , 2005, 30, 1610-1615. | 2.0 | 81 |
| 79 | Posterior Sloping Angle of the Capital Femoral Physis. <i>Journal of Pediatric Orthopaedics</i> , 2005, 25, 445-449. | 1.2 | 76 |
| 80 | Epidemiologic aspects of pediatric multiple trauma in a Spanish urban population. <i>Journal of Pediatric Surgery</i> , 2000, 35, 1478-1481. | 1.6 | 19 |
| 81 | Intracapsular Hip Pressure After Femoral Neck Fracture. <i>Clinical Orthopaedics and Related Research</i> , 1997, 340, 172-180. | 1.5 | 75 |
| 82 | Title is missing!. <i>Journal of Pediatric Orthopaedics</i> , 1997, 17, 54-58. | 1.2 | 8 |
| 83 | Absence of mutation at the GAP-related domain of the neurofibromatosis type 1 gene in sporadic neurofibrosarcomas and other bone and soft tissue sarcomas. <i>Cancer Genetics and Cytogenetics</i> , 1995, 81, 173-174. | 1.0 | 11 |
| 84 | c-myc oncogene amplification and cytometric DNA ploidy pattern as prognostic factors in musculoskeletal neoplasms. <i>International Journal of Cancer</i> , 1994, 58, 781-786. | 5.1 | 13 |
| 85 | No association between c-myc amplification and TP53 mutation in sarcoma tumorigenesis. <i>Cancer Genetics and Cytogenetics</i> , 1994, 76, 47-49. | 1.0 | 16 |
| 86 | Clinicopathologic Correlations and Short-Term Prognosis in Musculoskeletal Sarcoma with c-myc Oncogene Amplification. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 1994, 17, 273. | 1.3 | 34 |
| 87 | Longitudinal Growth Pattern of the Radius After Forearm Fractures Conservatively Treated in Children. <i>Journal of Pediatric Orthopaedics</i> , 1994, 14, 492-495. | 1.2 | 25 |
| 88 | Amplification of c-myc oncogene and absence of c-Ha-ras point mutation in human bone sarcoma. <i>Journal of Orthopaedic Research</i> , 1993, 11, 556-563. | 2.3 | 38 |
| 89 | Walking Ability After Internal Fixation of Trochanteric Hip Fractures With Ender Nails or Sliding Screw Plate. <i>Clinical Orthopaedics and Related Research</i> , 1993, 294, 187-192. | 1.5 | 12 |
| 90 | Healing Complications After Internal Fixation of Trochanteric Hip Fractures: The Prognostic Value of Osteoporosis. <i>Journal of Orthopaedic Trauma</i> , 1993, 7, 438-442. | 1.4 | 151 |

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|----|--|-----|-----------|
| 91 | Amplification of the c-myc Proto-oncogene in Human Chondrosarcoma. Diagnostic Molecular Pathology, 1992, 1, 235-238. | 2.1 | 0 |
| 92 | Surgical Management of Nerve Injuries of the Upper Extremity in Children. Journal of Pediatric Orthopaedics, 1991, 11, 641-645. | 1.2 | 52 |
| 93 | Postoperative Improvement of Walking Capacity in Patients with Trochanteric Hip Fracture. Journal of Orthopaedic Trauma, 1990, 4, 137-143. | 1.4 | 26 |
| 94 | Human fibroblasts show expression of the leukotriene-A4-hydrolase gene, which is increased after simian-virus-40 transformation. FEBS Journal, 1990, 191, 27-31. | 0.2 | 25 |
| 95 | Secondary repair of ulnar nerve injury: 44 cases followed for 2 years. Acta Orthopaedica, 1990, 61, 46-49. | 1.4 | 22 |
| 96 | Microsurgery Versus Standard Removal of the Herniated Lumbar Disc: A 3-year Comparison in 150 Cases. Acta Orthopaedica, 1990, 61, 399-403. | 1.4 | 91 |
| 97 | Scoliosis Induced by Medullary Damage: An Experimental Study in Rabbits. Spine, 1987, 12, 433-439. | 2.0 | 45 |