

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	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
2	Microsurgery Versus Standard Removal of the Herniated Lumbar Disc: A 3-year Comparison in 150 Cases. <i>Acta Orthopaedica</i> , 1990, 61, 399-403.	1.4	91
3	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
4	Posterior Sloping Angle of the Capital Femoral Physis. <i>Journal of Pediatric Orthopaedics</i> , 2005, 25, 445-449.	1.2	76
5	Intracapsular Hip Pressure After Femoral Neck Fracture. <i>Clinical Orthopaedics and Related Research</i> , 1997, 340, 172-180.	1.5	75
6	Abdominal muscle EMG-activity during bridge exercises on stable and unstable surfaces. <i>Physical Therapy in Sport</i> , 2014, 15, 162-168.	1.9	69
7	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
8	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
9	Anthropometry and Body Composition Profile of Girls With Nonsurgically Treated Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2011, 36, 1470-1477.	2.0	61
10	Adjacent segment degeneration and revision surgery after circumferential lumbar fusion: outcomes throughout 15 years of follow-up. <i>European Spine Journal</i> , 2016, 25, 1550-1557.	2.2	55
11	Antioxidant Alternatives in the Treatment of Amyotrophic Lateral Sclerosis: A Comprehensive Review. <i>Frontiers in Physiology</i> , 2020, 11, 63.	2.8	53
12	Surgical Management of Nerve Injuries of the Upper Extremity in Children. <i>Journal of Pediatric Orthopaedics</i> , 1991, 11, 641-645.	1.2	52
13	Scoliosis Induced by Medullary Damage: An Experimental Study in Rabbits. <i>Spine</i> , 1987, 12, 433-439.	2.0	45
14	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
15	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
16	Clinical Outcomes and Complications After Pedicle-anchored Dynamic or Hybrid Lumbar Spine Stabilization. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, E439-E448.	1.9	36
17	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
18	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

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19	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
20	Postoperative Improvement of Walking Capacity in Patients with Trochanteric Hip Fracture. <i>Journal of Orthopaedic Trauma</i> , 1990, 4, 137-143.	1.4	26
21	Safe Pedicle Screw Placement in Thoracic Scoliotic Curves Using t-EMG. <i>Spine</i> , 2012, 37, E387-E395.	2.0	26
22	Cervical and Thoracic Sagittal Misalignment After Surgery for Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2014, 39, 1330-1337.	2.0	26
23	Human fibroblasts show expression of the leukotriene-A4-hydrolase gene, which is increased after simian-virus-40 transformation. <i>FEBS Journal</i> , 1990, 191, 27-31.	0.2	25
24	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
25	Secondary repair of ulnar nerve injury: 44 cases followed for 2 years. <i>Acta Orthopaedica</i> , 1990, 61, 46-49.	1.4	22
26	Epidemiologic aspects of pediatric multiple trauma in a Spanish urban population. <i>Journal of Pediatric Surgery</i> , 2000, 35, 1478-1481.	1.6	19
27	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
28	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
29	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
30	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
31	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
32	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. <i>European Spine Journal</i> , 2015, 24, 2735-2745.	2.2	14
33	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
34	Cardiorespiratory Function Does Not Improve 2 Years After Posterior Surgical Correction of Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2017, 42, 1391-1397.	2.0	13
35	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
36	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

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37	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
38	Recording Diffusion Responses From Contralateral Intercostal Muscles After Stimulus-Triggered Electromyography. <i>Spine</i> , 2009, 34, E391-E396.	2.0	12
39	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
40	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
41	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
42	Multidisciplinary Approach to Neoadjuvant Endocrine Therapy in Breast Cancer: A Comprehensive Review. <i>Revista Brasileira De Ginecologia E Obstetricia</i> , 2016, 38, 615-622.	0.8	10
43	Vertebral growth modulation by hemicircumferential electrocoagulation: an experimental study in pigs. <i>European Spine Journal</i> , 2011, 20, 367-375.	2.2	9
44	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
45	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
46	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
47	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
48	Antioxidants and Gabapentin Prevent Heat Hypersensitivity in a Neuropathic Pain Model. <i>Journal of Investigative Surgery</i> , 2013, 26, 109-117.	1.3	8
49	Surgical resection of massive liposarcomas at the extremities: a 10-year experience in a referral musculoskeletal sarcoma unit. <i>World Journal of Surgical Oncology</i> , 2015, 13, 206.	1.9	8
50	A study of reproducibility of kinesiology tape applications: review, reliability and validity. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 153.	1.9	8
51	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
52	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
53	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
54	Title is missing!. <i>Journal of Pediatric Orthopaedics</i> , 1997, 17, 54-58.	1.2	8

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55	Mood Profile of an America's Cup Team. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1403-1408.	0.4	7
56	Women's acute anxiety variations before and after epidural anesthesia for childbirth. <i>Journal of Psychosomatic Obstetrics and Gynaecology</i> , 2017, 38, 152-158.	2.1	7
57	Predominance of Studies With Poor Level of Evidence Among the Top 100 Most Cited Studies on Idiopathic Scoliosis: A Bibliometric and Content Analysis. <i>Spine Deformity</i> , 2018, 6, 373-383.	1.5	7
58	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
59	Randomized clinical trial of a new cyanoacrylate flexible tissue adhesive (Adhflex) for repairing surgical wounds. <i>Wound Repair and Regeneration</i> , 2016, 24, 568-580.	3.0	6
60	Poor Bone Quality in Patients With Amyotrophic Lateral Sclerosis. <i>Frontiers in Neurology</i> , 2020, 11, 599216.	2.4	6
61	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
62	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
63	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
64	The effect of biological sealants and adhesive treatments on matrix metalloproteinase expression during renal injury healing. <i>PLoS ONE</i> , 2017, 12, e0177665.	2.5	4
65	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
66	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
67	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
68	Behaviour of the Biological Adhesives TachoSil®, GelitaSpon®, and a New Elastic Cyanoacrylate (Adhflex®) in Experimental Renal Trauma and Wound Healing. <i>European Surgical Research</i> , 2016, 56, 164-179.	1.3	3
69	Neurophysiological monitoring during acute and progressive experimentally induced compression injury of the spinal cord in pigs. <i>European Spine Journal</i> , 2017, 26, 49-55.	2.2	3
70	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
71	Vertebrectomía total y acortamiento vertebral en el manejo de luxación vertebral T12-L1: manejo con medios subóptimos. <i>Neurocirugía</i> , 2018, 29, 304-308.	0.4	3
72	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

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73	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
74	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
75	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
76	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
77	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
78	Resultados postoperatorios inmediatos y a largo plazo de un abordaje mini-invasivo para la corrección de escoliosis idiopática del adolescente. <i>Coluna/ Columna</i> , 2013, 12, 291-295.	0.2	2
79	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
80	Influence of Cognitive Interferences and Self-Talk Functions on Performance During Competition in Elite Female Field Hockey Players. <i>Journal of Strength and Conditioning Research</i> , 2016, 30, 3339-3346.	2.1	2
81	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
82	Cardiorespiratory function of patients undergoing surgical correction of Scheuermann's hyperkyphosis. <i>Scientific Reports</i> , 2021, 11, 20138.	3.3	2
83	P097 Stimulus-triggered EMG of the thoracic pedicle screws in scoliotic deformity. <i>Clinical Neurophysiology</i> , 2008, 119, S96.	1.5	1
84	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
85	Resultado a largo plazo de las fusiones largas espino-pelvicas en escoliosis: importancia de la edad, la capacidad de marcha y el tipo de fijación ilíaca. <i>Coluna/ Columna</i> , 2013, 12, 285-290.	0.2	1
86	Analysis of the conflicts of interest disclosed by the program reviewers of the scoliosis research society (SRS) congresses, 2010-2014. <i>PLoS ONE</i> , 2018, 13, e0204993.	2.5	1
87	Adiposity-Age Distribution and Nutritional Status in Girls With Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2019, 7, 565-570.	1.5	1
88	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
89	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
90	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

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91	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". Journal of Sports Sciences, 2010, 28, 1141-1144.	2.0	0
92	Guest speakers lectures, oral presentations, clinical case presentations. ArgoSpine News and Journal, 2012, 24, 95-142.	0.1	0
93	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
94	Vertebral Coplanar Alignment Technique Versus Bilateral Apical Vertebral Derotation Technique in Neuromuscular Scoliosis. Global Spine Journal, 2021, , 219256822199231.	2.3	0
95	Modification of Diurnal Cortisol Secretion in Women's Professional Basketball. A Pilot Study. International Journal of Environmental Research and Public Health, 2021, 18, 8961.	2.6	0
96	Validation of the concavity-convexity quotient as a new method to measure the magnitude of scoliosis. Journal of Craniovertebral Junction and Spine, 2020, 11, 31.	0.8	0
97	Amplification of the c-myc Proto-oncogene in Human Chondrosarcoma. Diagnostic Molecular Pathology, 1992, 1, 235-238.	2.1	0