Lazaros Vlachopoulos

List of Publications by Year in descending order

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Version: 2024-02-01

59 papers	980 citations	471509 17 h-index	501196 28 g-index
60 all docs	60 docs citations	60 times ranked	756 citing authors

#	Article	IF	Citations
1	Tumor resection at the pelvis using three-dimensional planning and patient-specific instruments: a case series. World Journal of Surgical Oncology, 2016, 14, 249.	1.9	63
2	Three-dimensional postoperative accuracy of extra-articular forearm osteotomies using CT-scan based patient-specific surgical guides. BMC Musculoskeletal Disorders, 2015, 16, 336.	1.9	61
3	Computer-Assisted 3-Dimensional Reconstructions of Scaphoid Fractures and Nonunions With and Without the Use of Patient-Specific Guides: Early Clinical Outcomes and Postoperative Assessments of Reconstruction Accuracy. Journal of Hand Surgery, 2016, 41, 59-69.	1.6	59
4	Complex Osteotomies of Tibial Plateau Malunions Using Computer-Assisted Planning and Patient-Specific Surgical Guides. Journal of Orthopaedic Trauma, 2015, 29, e270-e276.	1.4	54
5	Three-dimensional corrective osteotomies of complex malunited humeral fractures using patient-specific guides. Journal of Shoulder and Elbow Surgery, 2016, 25, 2040-2047.	2.6	49
6	Accuracy of 3D-planned patient specific instrumentation in high tibial open wedge valgisation osteotomy. Journal of Experimental Orthopaedics, 2020, 7, 7.	1.8	47
7	Introducing the Lateral Femoral Condyle Index as a Risk Factor for Anterior Cruciate Ligament Injury. American Journal of Sports Medicine, 2019, 47, 2420-2426.	4.2	39
8	Accuracy and Early Clinical Outcome of 3-Dimensional Planned and Guided Single-Cut Osteotomies of Malunited Forearm Bones. Journal of Hand Surgery, 2017, 42, 1031.e1-1031.e8.	1.6	36
9	Computer algorithms for three-dimensional measurement of humeral anatomy: analysis of 140 paired humeri. Journal of Shoulder and Elbow Surgery, 2016, 25, e38-e48.	2.6	29
10	Prediction of normal bone anatomy for the planning of corrective osteotomies of malunited forearm bones using a threeâ€dimensional statistical shape model. Journal of Orthopaedic Research, 2017, 35, 2630-2636.	2.3	29
11	Is the contralateral tibia a reliable template for reconstruction: a three-dimensional anatomy cadaveric study. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 2324-2331.	4.2	26
12	A scale-space curvature matching algorithm for the reconstruction of complex proximal humeral fractures. Medical Image Analysis, 2018, 43, 142-156.	11.6	25
13	Accuracy of three dimensional-planned patient-specific instrumentation in femoral and tibial rotational osteotomy for patellofemoral instability. International Orthopaedics, 2020, 44, 1711-1717.	1.9	25
14	Restoration of the Patient-Specific Anatomy of the Proximal and Distal Parts of the Humerus. Journal of Bone and Joint Surgery - Series A, 2018, 100, e50.	3.0	23
15	Malpositioning of patient-specific instruments within the possible degrees of freedom in high-tibial osteotomy has no considerable influence on mechanical leg axis correction. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1356-1364.	4.2	23
16	The impact of limb loading and the measurement modality (2D versus 3D) on the measurement of the limb loading dependent lower extremity parameters. BMC Musculoskeletal Disorders, 2020, 21, 418.	1.9	22
17	Three-Dimensional Correction of Complex Ankle Deformities With Computer-Assisted Planning and Patient-Specific Surgical Guides. Journal of Foot and Ankle Surgery, 2017, 56, 1158-1164.	1.0	18
18	Joint-preserving tumour resection around the knee with allograft reconstruction using three-dimensional preoperative planning and patient-specific instruments. Knee, 2019, 26, 787-793.	1.6	18

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19	An automatic genetic algorithm framework for the optimization of three-dimensional surgical plans of forearm corrective osteotomies. Medical Image Analysis, 2020, 60, 101598.	11.6	18
20	Rotation or flexion alters mechanical leg axis measurements comparably in patients with different coronal alignment. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 3128-3134.	4.2	18
21	Suture Slippage in Knotless Suture Anchors as a Potential Failure Mechanism in Rotator Cuff Repair. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2012, 28, 1622-1627.	2.7	17
22	Assessment of the Isometry of the Anterolateral Ligament in a 3-Dimensional Weight-Bearing Computed Tomography Simulation. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2017, 33, 1016-1023.	2.7	16
23	Computer-assisted planning and patient-specific guides for the treatment of midshaft clavicle malunions. Journal of Shoulder and Elbow Surgery, 2017, 26, 1367-1373.	2.6	16
24	The Accuracy of Three-Dimensional Planned Bone Tumor Resection Using Patient-Specific Instrument . Cancer Management and Research, 2020, Volume 12, 6533-6540.	1.9	16
25	Combined Correction of Tibial Torsion and Tibial Tuberosityâ€“Trochlear Groove Distance by Supratuberositary Torsional Osteotomy of the Tibia. American Journal of Sports Medicine, 2020, 48, 2260-2267.	4.2	16
26	Three-dimensional meniscus allograft sizingâ€”a study of 280 healthy menisci. Journal of Orthopaedic Surgery and Research, 2020, 15, 74.	2.3	16
27	Treatment of Charcot Neuroarthropathy and osteomyelitis of the same foot: a retrospective cohort study. BMC Musculoskeletal Disorders, 2017, 18, 460.	1.9	15
28	Threeâ€dimensional corrective osteotomies of malâ€united claviclesâ€”is the contralateral anatomy a reliable template for reconstruction?. Clinical Anatomy, 2015, 28, 865-871.	2.7	14
29	Improving accuracy of opening-wedge osteotomies of distal radius using a patient-specific ramp-guide technique. BMC Musculoskeletal Disorders, 2018, 19, 374.	1.9	14
30	Automatic string generation for estimating in vivo length changes of the medial patellofemoral ligament during knee flexion. Medical and Biological Engineering and Computing, 2014, 52, 511-520.	2.8	13
31	The effect of native knee rotation on the tibial-tubercle-trochlear-groove distance in patients with patellar instability: an analysis of MRI and CT measurements. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 3149-3155.	2.4	13
32	Regression forest-based automatic estimation of the articular margin plane for shoulder prosthesis planning. Medical Image Analysis, 2016, 31, 88-97.	11.6	12
33	Contralateral MRI scan can be used reliably for three-dimensional meniscus sizing â€” Retrospective analysis of 160 healthy menisci. Knee, 2019, 26, 954-961.	1.6	9
34	The impact of mal-angulated femoral rotational osteotomies on mechanical leg axis: a computer simulation model. BMC Musculoskeletal Disorders, 2020, 21, 50.	1.9	9
35	A Novel Method for the Approximation of Humeral Head Retrotorsion Based on Three-Dimensional Registration of the Bicipital Groove. Journal of Bone and Joint Surgery - Series A, 2018, 100, e101.	3.0	8
36	A real 3D measurement technique for the tibial slope: differentiation between different articular surfaces and comparison to radiographic slope measurement. BMC Musculoskeletal Disorders, 2020, 21, 635.	1.9	8

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37	Three-dimensional preoperative planning in the weight-bearing state: validation and clinical evaluation. Insights Into Imaging, 2021, 12, 44.	3.4	8
38	Influence of femoral tunnel exit on the 3D graft bending angle in anterior cruciate ligament reconstruction. Journal of Experimental Orthopaedics, 2021, 8, 44.	1.8	7
39	Persisting Growth After Prophylactic Single-Screw Epiphysiodesis in Upper Femoral Epiphysis. Journal of Pediatric Orthopaedics, 2013, 33, 816-820.	1.2	6
40	Influence of medial open wedge high tibial osteotomy on tibial tuberosityâ€“trochlear groove distance. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 1500-1506.	4.2	6
41	Tibial tunnel enlargement is affected by the tunnel diameter-screw ratio in tibial hybrid fixation for hamstring ACL reconstruction. Archives of Orthopaedic and Trauma Surgery, 2023, 143, 1923-1930.	2.4	6
42	Mutation analysis of the growth factor genesPlGF, Flt1, IGF-I, andIGF-IRin intrauterine growth restriction with abnormal placental blood flow. Journal of Maternal-Fetal and Neonatal Medicine, 2010, 23, 142-147.	1.5	5
43	A Novel Registration-Based Approach for 3D Assessment of Posttraumatic Distal Humeral Deformities. Journal of Bone and Joint Surgery - Series A, 2017, 99, e127.	3.0	5
44	Is the contralateral lesser trochanter a reliable reference for planning of total hip arthroplasty â€“ a 3-dimensional analysis. BMC Musculoskeletal Disorders, 2021, 22, 268.	1.9	5
45	Tibial internal rotation in combined anterior cruciate ligament and high-grade anterolateral ligament injury and its influence on ACL length. BMC Musculoskeletal Disorders, 2022, 23, 262.	1.9	5
46	The winking sign is an indicator for increased femorotibial rotation in patients with recurrent patellar instability. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 3651-3658.	4.2	5
47	The Legend of the Luschka Tubercle and Its Association With Snapping Scapulae: Osseous Morphology of Snapping Scapulae on CT Images. American Journal of Roentgenology, 2017, 209, 159-166.	2.2	3
48	Fully Automatic Planning of Total Shoulder Arthroplasty Without Segmentation: A Deep Learning Based Approach. Lecture Notes in Computer Science, 2019, , 22-34.	1.3	3
49	Accuracy of joint line restoration based on three-dimensional registration of the contralateral tibial tuberosity and the fibular tip. Journal of Experimental Orthopaedics, 2021, 8, 84.	1.8	3
50	Meniscus sizing using three-dimensional models of the ipsilateral tibia plateau based on CT scans â€“ an experimental study of a new sizing approach. Journal of Experimental Orthopaedics, 2020, 7, 36.	1.8	3
51	Mal-angulation of femoral rotational osteotomies causes more postoperative sagittal mechanical leg axis deviation in supracondylar than in subtrochanteric procedures. Journal of Experimental Orthopaedics, 2020, 7, 46.	1.8	3
52	Correction of complex three-dimensional deformities at the proximal femur using indirect reduction with angle blade plate and patient-specific instruments: a technical note. Journal of Orthopaedic Surgery and Research, 2021, 16, 427.	2.3	2
53	Osteochondral Allograft Reconstruction of the Tibia Plateau for Posttraumatic Defectsâ€”A Novel Computer-Assisted Method Using 3D Preoperative Planning and Patient-Specific Instrumentation. The Surgery Journal, 2021, 07, e289-e296.	0.7	2
54	Talar neck angle correlates with tibial torsionâ€”Guidance for 3D and 2D measurements in total ankle replacement. Journal of Orthopaedic Research, 2021, 39, 788-796.	2.3	2

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55	A Statistical Shape Model-Based Analysis of Periacetabular Osteotomies. Journal of Bone and Joint Surgery - Series A, 2022, 104, 1107-1115.	3.0	2
56	Restoration of Native Leg Length After Opening-Wedge High Tibial Osteotomy: An Intraindividual Analysis. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712110637.	1.7	1
57	Elongation Patterns of Posterolateral Corner Reconstruction Techniques: Results Using 3-Dimensional Weightbearing Computed Tomography Simulation. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712210902.	1.7	1
58	Elongation Patterns of the Superficial Medial Collateral Ligament and the Posterior Oblique Ligament: A 3-Dimensional, Weightbearing Computed Tomography Simulation. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712210912.	1.7	1
59	Restoration of the patient-specific anatomy of the distal fibula based on a novel three-dimensional contralateral registration method. Journal of Experimental Orthopaedics, 2022, 9, 48.	1.8	1