

Till Dominic Lerch

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,402
citations

361296
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h-index

345118
36
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all docs

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docs citations

48
times ranked

683
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#	ARTICLE	IF	CITATIONS
1	One-third of Hips After Periacetabular Osteotomy Survive 30 Years With Good Clinical Results, No Progression of Arthritis, or Conversion to THA. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1154-1168.	0.7	249
2	Prevalence of Femoral and Acetabular Version Abnormalities in Patients With Symptomatic Hip Disease: A Controlled Study of 538 Hips. <i>American Journal of Sports Medicine</i> , 2018, 46, 122-134.	1.9	137
3	Differences in Femoral Torsion Among Various Measurement Methods Increase in Hips With Excessive Femoral Torsion. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1073-1083.	0.7	100
4	Size and shape of the lunate surface in different types of pincer impingement: theoretical implications for surgical therapy. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 951-958.	0.6	85
5	Femoroacetabular Impingement Patients With Decreased Femoral Version Have Different Impingement Locations and Intra- and Extraarticular Anterior Subspine FAI on 3D-CTâ€‘Based Impingement Simulation: Implications for Hip Arthroscopy. <i>American Journal of Sports Medicine</i> , 2019, 47, 3120-3132.	1.9	85
6	High Survivorship and Little Osteoarthritis at 10-year Followup in SCFE Patients Treated With a Modified Dunn Procedure. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1212-1228.	0.7	58
7	Intra-articular Lesions: Imaging and Surgical Correlation. <i>Seminars in Musculoskeletal Radiology</i> , 2017, 21, 487-506.	0.4	58
8	Patient-Specific 3-D Magnetic Resonance Imagingâ€‘Based Dynamic Simulation of Hip Impingement and Range of Motion Can Replace 3-D Computed Tomographyâ€‘Based Simulation for Patients With Femoroacetabular Impingement: Implications for Planning Open Hip Preservation Surgery and Hip Arthroscopy. <i>American Journal of Sports Medicine</i> , 2019, 47, 2966-2977.	1.9	54
9	The modified Dunn procedure for slipped capital femoral epiphysis: The Bernese experience. <i>Journal of Children's Orthopaedics</i> , 2017, 11, 138-146.	0.4	45
10	Automatic MRI-based Three-dimensional Models of Hip Cartilage Provide Improved Morphologic and Biochemical Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1036-1052.	0.7	43
11	Location of Intra- and Extra-articular Hip Impingement Is Different in Patients With Pincer-Type and Mixed-Type Femoroacetabular Impingement Due to Acetabular Retroversion or Protrusio Acetabuli on 3D CTâ€‘Based Impingement Simulation. <i>American Journal of Sports Medicine</i> , 2020, 48, 661-672.	1.9	36
12	Prevalence and diagnostic accuracy of in-toeing and out-toeing of the foot for patients with abnormal femoral torsion and femoroacetabular impingement. <i>Bone and Joint Journal</i> , 2019, 101-B, 1218-1229.	1.9	35
13	Segmentation of the proximal femur in radial MR scans using a random forest classifier and deformable model registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 545-561.	1.7	26
14	Posterior Extra-articular Ischiofemoral Impingement Can Be Caused by the Lesser and Greater Trochanter in Patients With Increased Femoral Version: Dynamic 3D CTâ€‘Based Hip Impingement Simulation of a Modified FABER Test. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 232596712199062.	0.8	26
15	What Is the Prevalence of Cam Deformity After Prophylactic Pinning of the Contralateral Asymptomatic Hip in Unilateral Slipped Capital Femoral Epiphysis? A 10-year Minimum Followup Study. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1111-1122.	0.7	25
16	MRI-based 3D models of the hip joint enables radiation-free computer-assisted planning of periacetabular osteotomy for treatment of hip dysplasia using deep learning for automatic segmentation. <i>European Journal of Radiology Open</i> , 2021, 8, 100303.	0.7	24
17	Return to Sport and Patient Satisfaction at 5-Year Follow-up After Nonoperative Treatment for Acute Achilles Tendon Rupture. <i>Foot and Ankle International</i> , 2020, 41, 784-792.	1.1	23
18	Most of patients with femoral derotation osteotomy for posterior extraarticular hip impingement and high femoral version would do surgery again. <i>HIP International</i> , 2022, 32, 253-264.	0.9	22

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19	Good Outcome Scores and Low Conversion Rate to THA 10 Years After Hip Arthroscopy for the Treatment of Femoroacetabular Impingement. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 2256-2264.	0.7	21
20	Augmented marker tracking for peri-acetabular osteotomy surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 291-304.	1.7	20
21	Usefulness of MR Arthrography of the Hip with and without leg Traction in Detection of Intra-articular Bodies. <i>Academic Radiology</i> , 2019, 26, e252-e259.	1.3	20
22	Prevalence of combined abnormalities of tibial and femoral torsion in patients with symptomatic hip dysplasia and femoroacetabular impingement. <i>Bone and Joint Journal</i> , 2020, 102-B, 1636-1645.	1.9	16
23	Complications of hip preserving surgery. <i>EFORT Open Reviews</i> , 2021, 6, 472-486.	1.8	13
24	Lower pelvic tilt, lower pelvic incidence, and increased external rotation of the iliac wing in patients with femoroacetabular impingement due to acetabular retroversion compared to hip dysplasia. <i>Bone & Joint Open</i> , 2021, 2, 813-824.	1.1	13
25	Combined abnormalities of femoral version and acetabular version and McKibbin Index in FAI patients evaluated for hip preservation surgery. <i>Journal of Hip Preservation Surgery</i> , 2022, 9, 67-77.	0.6	13
26	Three-Dimensional Magnetic Resonance Imaging Bone Models of the Hip Joint Using Deep Learning: Dynamic Simulation of Hip Impingement for Diagnosis of Intra- and Extra-articular Hip Impingement. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 232596712110469.	0.8	11
27	Diagnosis of acetabular retroversion: Three signs positive and increased retroversion index have higher specificity and higher diagnostic accuracy compared to isolated positive cross over sign. <i>European Journal of Radiology Open</i> , 2022, 9, 100407.	0.7	10
28	First Clinical Experience with a Carbon Fibre Reinforced PEEK Composite Plating System for Anterior Cervical Discectomy and Fusion. <i>Journal of Functional Biomaterials</i> , 2019, 10, 29.	1.8	9
29	High prevalence of hip lesions secondary to arthroscopic over- or undercorrection of femoroacetabular impingement in patients with postoperative pain. <i>European Radiology</i> , 2021, , 1.	2.3	9
30	Magnetization-prepared 2 Rapid Gradient-Echo MRI for B1 Insensitive 3D T1 Mapping of Hip Cartilage: An Experimental and Clinical Validation. <i>Radiology</i> , 2021, 299, 150-158.	3.6	8
31	Entropy Guided Unsupervised Domain Adaptation for Cross-Center Hip Cartilage Segmentation from MRI. <i>Lecture Notes in Computer Science</i> , 2020, , 447-456.	1.0	8
32	Femoral osteochondroplasty can be performed effectively without the risk of avascular necrosis or femoral neck fractures in an experimental ovine FAI model. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 128-137.	0.6	6
33	Hip preservation. <i>EFORT Open Reviews</i> , 2020, 5, 630-640.	1.8	6
34	Femoral cartilage damage occurs at the zone of femoral head necrosis and can be accurately detected on traction MR arthrography of the hip in patients undergoing joint preserving hip surgery. <i>Journal of Hip Preservation Surgery</i> , 2021, 8, 28-39.	0.6	6
35	The EOS 3D imaging system reliably measures posterior tibial slope. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 388.	0.9	5
36	Augmented marker tracking for peri-acetabular osteotomy surgery. , 2017, 2017, 937-941.		4

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37	Biochemical MRI With dGEMRIC Corresponds to 3D-CT Based Impingement Location for Detection of Acetabular Cartilage Damage in FAI Patients. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712098817.	0.8	4
38	Minimal Out-Toeing and Good Hip Scores of Severe SCFE Patients Treated With Modified Dunn Procedure and Contralateral Prophylactic Pinning at Minimal 5-year Follow up. Journal of Pediatric Orthopaedics, 2022, 42, e421-e426.	0.6	2
39	Evaluation of Radiographic Features Including Metatarsus Primus Elevatus in Hallux Rigidus. Journal of Foot and Ankle Surgery, 2022, 61, 831-835.	0.5	2
40	How frequent is absolute femoral retroversion in symptomatic patients with cam- and pincer-type femoroacetabular impingement?. Bone & Joint Open, 2022, 3, 557-565.	1.1	2
41	Less in-toeing after femoral derotation osteotomy in adult patients with increased femoral version and posterior hip impingement compared to patients with femoral retroversion. Journal of Hip Preservation Surgery, 0, , .	0.6	1
42	Radiology of the Hip Joint. Fracture Management Joint By Joint, 2019, , 19-32.	0.0	0
43	Postoperative Traction MR Arthrography in Patients with Persisting Pain after Arthroscopic FAI Correction Reveals High Prevalence of Osseous Deformities and Intra-Articular Lesions. , 2020, 24, .		0
44	Traditional Imaging: Plain X-Rays, Three-Dimensional CT, and MR Imaging in Development Dysplasia of the Hip. , 2020, , 71-98.		0