

# Gernot Lang

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,142  
citations

430874

18  
h-index

434195

31  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Intelligence-Driven Prediction Modeling and Decision Making in Spine Surgery Using Hybrid Machine Learning Models. <i>Journal of Personalized Medicine</i> , 2022, 12, 509.	2.5	50
2	One-Year Clinical Outcomes of Minimal-Invasive Dorsal Percutaneous Fixation of Thoracolumbar Spine Fractures. <i>Medicina (Lithuania)</i> , 2022, 58, 606.	2.0	3
3	Artificial Intelligence-Based Prediction of Oroantral Communication after Tooth Extraction Utilizing Preoperative Panoramic Radiography. <i>Diagnostics</i> , 2022, 12, 1406.	2.6	9
4	Performance Analysis of Supervised Machine Learning Algorithms for Automatized Radiographical Classification of Maxillary Third Molar Impaction. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6740.	2.5	3
5	Performance of Artificial Intelligence-Based Algorithms to Predict Prolonged Length of Stay after Lumbar Decompression Surgery. <i>Journal of Clinical Medicine</i> , 2022, 11, 4050.	2.4	16
6	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. <i>Theranostics</i> , 2021, 11, 27-47.	10.0	101
7	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF- $\alpha$ -Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 417.	2.5	2
8	A Proinflammatory, Degenerative Organ Culture Model to Simulate Early-Stage Intervertebral Disc Disease.. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	4
9	Clinicopathologic characteristics, metastasis-free survival, and skeletal-related events in 628 patients with skeletal metastases in a tertiary orthopedic and trauma center. <i>World Journal of Surgical Oncology</i> , 2021, 19, 62.	1.9	4
10	Corrective Osteotomy of Upper Extremity Malunions Using Three-Dimensional Planning and Patient-Specific Surgical Guides: Recent Advances and Perspectives. <i>Frontiers in Surgery</i> , 2021, 8, 615026.	1.4	5
11	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. <i>Cells</i> , 2021, 10, 650.	4.1	31
12	Impact of renin-angiotensin system inhibitors and beta-blockers on dental implant stability. <i>International Journal of Implant Dentistry</i> , 2021, 7, 31.	2.7	8
13	Clinical Performance of CAD/CAM All-Ceramic Tooth-Supported Fixed Dental Prostheses: A Systematic Review and Meta-Analysis. <i>Materials</i> , 2021, 14, 2672.	2.9	19
14	Architecture-Promoted Biomechanical Performance-Tuning of Tissue-Engineered Constructs for Biological Intervertebral Disc Replacement. <i>Materials</i> , 2021, 14, 2692.	2.9	4
15	Conservative and Surgical Treatment of Talar Fractures: A Systematic Review and Meta-Analysis on Clinical Outcomes and Complications. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8274.	2.6	7
16	Fluoroscopic guided tunnel placement during medial patellofemoral ligament reconstruction is not accurate in patients with severe trochlear dysplasia. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 759-766.	4.2	10
17	Intervertebral disc organ culture for the investigation of disc pathology and regeneration – benefits, limitations, and future directions of bioreactors. <i>Connective Tissue Research</i> , 2020, 61, 304-321.	2.3	30
18	Factors Influencing Primary and Secondary Implant Stability – A Retrospective Cohort Study with 582 Implants in 272 Patients. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8084.	2.5	13

#	ARTICLE	IF	CITATIONS
19	The acromioclavicular ligament shows an early and dynamic healing response following acute traumatic rupture. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 593.	1.9	15
20	Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha. <i>JOR Spine</i> , 2020, 3, e1104.	3.2	23
21	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 583.	4.1	26
22	The tissue-renin-angiotensin-system of the human intervertebral disc. , 2020, 40, 115-132.		14
23	Creeping Fat Assessed by Small Bowel MRI Is Linked to Bowel Damage and Abdominal Surgery in Crohn's Disease. <i>Digestive Diseases and Sciences</i> , 2019, 64, 204-212.	2.3	17
24	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e2051-e2061.	2.7	55
25	Annulus Fibrosus Repair Using High-Density Collagen Gel. <i>Spine</i> , 2018, 43, E208-E215.	2.0	46
26	The Impact of Cage Dimensions, Positioning, and Side of Approach in Extreme Lateral Interbody Fusion. <i>Clinical Spine Surgery</i> , 2018, 31, E42-E49.	1.3	36
27	A New Volumetric Radiologic Method to Assess Indirect Decompression After Extreme Lateral Interbody Fusion Using High-Resolution Intraoperative Computed Tomography. <i>World Neurosurgery</i> , 2018, 109, 59-67.	1.3	13
28	3D Navigation-guided Resection of Giant Ventral Cervical Intradural Schwannoma With 360-Degree Stabilization. <i>Clinical Spine Surgery</i> , 2018, 31, E257-E265.	1.3	10
29	Resorbable plating system stabilizes tissue-engineered intervertebral discs implanted ex vivo in canine cervical spines. <i>JOR Spine</i> , 2018, 1, e1031.	3.2	11
30	Preoperative Assessment of Neural Elements in Lumbar Spinal Stenosis by Upright Magnetic Resonance Imaging: An Implication for Routine Practice?. <i>Cureus</i> , 2018, 10, e2440.	0.5	9
31	Modified Lemaire extra-articular stabilisation of the knee for the treatment of anterolateral instability combined with diffuse pigmented villonodular synovitis: a case report. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 330.	1.9	2
32	Arthroscopic patellar release allows timely return to performance in professional and amateur athletes with chronic patellar tendinopathy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 3553-3559.	4.2	8
33	Efficacy of Thoracolumbar Bracing in Spinal Immobilization: Precise Assessment of Gross, Intersegmental, and Segmental Spinal Motion Restriction by a 3D Kinematic System. <i>World Neurosurgery</i> , 2018, 116, e128-e146.	1.3	3
34	The Potential for Synovium-derived Stem Cells in Cartilage Repair. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 174-184.	1.3	62
35	Heterodimeric BMP-2/7 for nucleus pulposus regeneration: In vitro and ex vivo studies. <i>Journal of Orthopaedic Research</i> , 2017, 35, 51-60.	2.3	45
36	Total Navigation in Spine Surgery; A Concise Guide to Eliminate Fluoroscopy Using a Portable Intraoperative Computed Tomography 3-Dimensional Navigation System. <i>World Neurosurgery</i> , 2017, 100, 325-335.	1.3	75

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37	Potential and Limitations of Neural Decompression in Extreme Lateral Interbody Fusion – A Systematic Review. <i>World Neurosurgery</i> , 2017, 101, 99-113.	1.3	76
38	Minimally Invasive Transforaminal Lumbar Interbody Fusion: Meta-analysis of the Fusion Rates. What is the Optimal Graft Material?. <i>Neurosurgery</i> , 2017, 81, 958-971.	1.1	51
39	Elimination of Subsidence with 26-mm-Wide Cages in Extreme Lateral Interbody Fusion. <i>World Neurosurgery</i> , 2017, 104, 644-652.	1.3	54
40	The Impact of Kidney Disease on Acute Tubular Necrosis and Surgical Site Infection After Lumbar Fusion. <i>World Neurosurgery</i> , 2017, 105, 498-502.	1.3	4
41	Are Locked Facets a Contraindication for Extreme Lateral Interbody Fusion?. <i>World Neurosurgery</i> , 2017, 100, 607-618.	1.3	25
42	90-day Readmission After Lumbar Spinal Fusion Surgery in New York State Between 2005 and 2014. <i>Spine</i> , 2017, 42, 1706-1716.	2.0	35
43	Can Fan-Beam Interactive Computed Tomography Accurately Predict Indirect Decompression in Minimally Invasive Spine Surgery Fusion Procedures?. <i>World Neurosurgery</i> , 2017, 107, 322-333.	1.3	13
44	Prognostic value of MRI in arthroscopic treatment of chronic patellar tendinopathy: a prospective cohort study. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 146.	1.9	11
45	Examination of concomitant glenohumeral pathologies in patients treated arthroscopically for calcific tendinitis of the shoulder and implications for routine diagnostic joint exploration. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 476.	1.9	4
46	Arthroscopic patellar release for treatment of chronic symptomatic patellar tendinopathy: long-term outcome and influential factors in an athletic population. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 486.	1.9	8
47	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. <i>Biomaterials</i> , 2016, 84, 196-209.	11.4	50
48	Impact of Small Bowel MRI in Routine Clinical Practice on Staging of Crohn's Disease. <i>Journal of Crohn's and Colitis</i> , 2015, 9, 784-794.	1.3	11