

# Kai-Uwe Lewandrowski

## List of Publications by Year in descending order

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95  
papers

2,000  
citations

279798

23  
h-index

315739

38  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertebral osteolysis after posterior interbody lumbar fusion with recombinant human bone morphogenetic protein 2: A report of five cases. <i>Spine Journal</i> , 2007, 7, 609-614.	1.3	160
2	Bioresorbable bone graft substitutes of different osteoconductivities: a histologic evaluation of osteointegration of poly(propylene glycol-co-fumaric acid)-based cement implants in rats. <i>Biomaterials</i> , 2000, 21, 757-764.	11.4	143
3	Use of the Er:YAG laser for improved plating in maxillofacial surgery: Comparison of bone healing in laser and drill osteotomies. , 1996, 19, 40-45.		92
4	â€œOutside-inâ€•Technique, Clinical Results, and Indications with Transforaminal Lumbar Endoscopic Surgery: a Retrospective Study on 220 Patients on Applied Radiographic Classification of Foraminal Spinal Stenosis. <i>International Journal of Spine Surgery</i> , 2014, 8, 26.	1.5	83
5	Incidence, Management, and Cost of Complications After Transforaminal Endoscopic Decompression Surgery for Lumbar Foraminal and Lateral Recess Stenosis: A Value Proposition for Outpatient Ambulatory Surgery. <i>International Journal of Spine Surgery</i> , 2019, 13, 53-67.	1.5	63
6	Concomitant Meniscal and Articular Cartilage Lesions in the Femorotibial Joint. <i>American Journal of Sports Medicine</i> , 1997, 25, 486-494.	4.2	57
7	Treatment of Soft Tissue and Bony Spinal Stenosis by a Visualized Endoscopic Transforaminal Technique Under Local Anesthesia. <i>Neurospine</i> , 2019, 16, 52-62.	2.9	56
8	Osteoconductivity of an injectable and bioresorbable poly(propylene glycol-co-fumaric acid) bone cement. <i>Biomaterials</i> , 2000, 21, 293-298.	11.4	51
9	Worldwide research productivity in the field of full-endoscopic spine surgery: a bibliometric study. <i>European Spine Journal</i> , 2020, 29, 153-160.	2.2	51
10	Anterior Spinal Arthrodesis With Structural Cortical Allografts and Instrumentation for Spine Tumor Surgery. <i>Spine</i> , 2004, 29, 1150-1158.	2.0	43
11	Immune response to perforated and partially demineralized bone allografts. <i>Journal of Orthopaedic Science</i> , 2001, 6, 545-555.	1.1	42
12	Successful outcome after outpatient transforaminal decompression for lumbar foraminal and lateral recess stenosis: The positive predictive value of diagnostic epidural steroid injection. <i>Clinical Neurology and Neurosurgery</i> , 2018, 173, 38-45.	1.4	40
13	Effect of a Poly(propylene fumarate) Foaming Cement on the Healing of Bone Defects. <i>Tissue Engineering</i> , 1999, 5, 305-316.	4.6	38
14	Developing porosity of poly(propylene glycol-co-fumaric acid) bone graft substitutes and the effect on osteointegration: A preliminary histology study in rats. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000, 11, 879-889.	3.5	38
15	The Concept for A Standalone Lordotic Endoscopic Wedge Lumbar Interbody Fusion: The LEW-LIF. <i>Neurospine</i> , 2019, 16, 82-95.	2.9	38
16	Readmissions After Outpatient Transforaminal Decompression for Lumbar Foraminal and Lateral Recess Stenosis. <i>International Journal of Spine Surgery</i> , 2018, 12, 342-351.	1.5	37
17	Virtual reality in spinal endoscopy: a paradigm shift in education to support spine surgeons. <i>Journal of Spine Surgery</i> , 2020, 6, S208-S223.	1.2	35
18	Five-year clinical outcomes with endoscopic transforaminal foraminoplasty for symptomatic degenerative conditions of the lumbar spine: a comparative study of inside-out versus outside-in techniques. <i>Journal of Spine Surgery</i> , 2020, 6, S66-S83.	1.2	33

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19	Improved osteoinduction of cortical bone allografts: A study of the effects of laser perforation and partial demineralization. <i>Journal of Orthopaedic Research</i> , 1997, 15, 748-756.	2.3	30
20	Retrospective analysis of accuracy and positive predictive value of preoperative lumbar MRI grading after successful outcome following outpatient endoscopic decompression for lumbar foraminal and lateral recess stenosis. <i>Clinical Neurology and Neurosurgery</i> , 2019, 179, 74-80.	1.4	28
21	Regional variations in acceptance, and utilization of minimally invasive spinal surgery techniques among spine surgeons: results of a global survey. <i>Journal of Spine Surgery</i> , 2020, 6, S260-S274.	1.2	28
22	Diastematomyelia presenting as progressive weakness in an adult after spinal fusion for adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2004, 4, 116-119.	1.3	27
23	Kinetics of cortical bone demineralization: Controlled demineralization? a new method for modifying cortical bone allografts. , 1996, 31, 365-372.		26
24	Navigating the learning curve of spinal endoscopy as an established traditionally trained spine surgeon. <i>Journal of Spine Surgery</i> , 2020, 6, S197-S207.	1.2	25
25	Biomechanical Analysis of Biodegradable Interbody Fusion Cages Augmented With Poly(Propylene) Tj ETQq1 1 0.784314 rgBJ /Overlock	2.0	24
26	Quantitative Measures of Osteoinductivity of a Porous Poly(propylene fumarate) Bone Graft Extender. <i>Tissue Engineering</i> , 2003, 9, 85-93.	4.6	23
27	Endoscopic Transforaminal and Lateral Recess Decompression After Previous Spinal Surgery. <i>International Journal of Spine Surgery</i> , 2018, 12, 98-111.	1.5	23
28	Feasibility of Deep Learning Algorithms for Reporting in Routine Spine Magnetic Resonance Imaging. <i>International Journal of Spine Surgery</i> , 2020, 14, S86-S97.	1.5	23
29	Cord and Cauda Equina Injury Complicating Elective Orthopedic Surgery. <i>Spine</i> , 2006, 31, 1056-1059.	2.0	21
30	Enhanced bioactivity of a poly(propylene fumarate) bone graft substitute by augmentation with nano-hydroxyapatite. <i>Bio-Medical Materials and Engineering</i> , 2003, 13, 115-24.	0.6	21
31	Experimental anterior spine fusion using bovine bone morphogenetic protein: a study in rabbits. <i>Journal of Orthopaedic Science</i> , 2000, 5, 165-170.	1.1	20
32	Dysethesia due to irritation of the dorsal root ganglion following lumbar transforaminal endoscopy: Analysis of frequency and contributing factors. <i>Clinical Neurology and Neurosurgery</i> , 2020, 197, 106073.	1.4	20
33	Patient selection protocols for endoscopic transforaminal, interlaminar, and translaminar decompression of lumbar spinal stenosis. <i>Journal of Spine Surgery</i> , 2020, 6, S120-S132.	1.2	20
34	Minimal Clinically Important Difference in Patient-Reported Outcome Measures with the Transforaminal Endoscopic Decompression for Lateral Recess and Foraminal Stenosis. <i>International Journal of Spine Surgery</i> , 2020, 14, 254-266.	1.5	20
35	Early and staged endoscopic management of common pain generators in the spine. <i>Journal of Spine Surgery</i> , 2020, 6, S1-S5.	1.2	19
36	Five-year clinical outcomes with endoscopic transforaminal outside-in foraminoplasty techniques for symptomatic degenerative conditions of the lumbar spine. <i>Journal of Spine Surgery</i> , 2020, 6, S54-S65.	1.2	18

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37	Surgeon training and clinical implementation of spinal endoscopy in routine practice: results of a global survey. <i>Journal of Spine Surgery</i> , 2020, 6, S237-S248.	1.2	18
38	Indication and Contraindication of Endoscopic Transforaminal Lumbar Decompression. <i>World Neurosurgery</i> , 2021, 145, 631-642.	1.3	18
39	Return to work and recovery time analysis after outpatient endoscopic lumbar transforaminal decompression surgery. <i>Journal of Spine Surgery</i> , 2020, 6, S100-S115.	1.2	17
40	Is Asia truly a hotspot of contemporary minimally invasive and endoscopic spinal surgery?. <i>Journal of Spine Surgery</i> , 2020, 6, S224-S236.	1.2	17
41	Dural Tears During Lumbar Spinal Endoscopy: Surgeon Skill, Training, Incidence, Risk Factors, and Management. <i>International Journal of Spine Surgery</i> , 2021, 15, 280-294.	1.5	17
42	Brachial Neuritis. <i>Spine</i> , 2007, 32, E640-E644.	2.0	16
43	The strategies behind "inside-out" and "outside-in" endoscopy of the lumbar spine: treating the pain generator. <i>Journal of Spine Surgery</i> , 2020, 6, S35-S39.	1.2	16
44	Technology advancements in spinal endoscopy for staged management of painful spine conditions. <i>Journal of Spine Surgery</i> , 2020, 6, S19-S28.	1.2	16
45	Subsidence induced recurrent radiculopathy after staged two-level standalone endoscopic lumbar interbody fusion with a threaded cylindrical cage: a case report. <i>Journal of Spine Surgery</i> , 2020, 6, S286-S293.	1.2	15
46	Comparative study of curative effect of spinal endoscopic surgery and anterior cervical decompression for cervical spondylotic myelopathy. <i>Journal of Spine Surgery</i> , 2020, 6, S186-S196.	1.2	15
47	Mechanical Properties of Perforated and Partially Demineralized Bone Grafts. <i>Clinical Orthopaedics and Related Research</i> , 1998, 353, 238-246.	1.5	14
48	A poly(propylene glycol-co-fumaric acid) based bone graft extender for lumbar spinal fusion: in vivo assessment in a rabbit model. <i>European Spine Journal</i> , 2006, 15, 936-943.	2.2	14
49	Surgeon motivation, and obstacles to the implementation of minimally invasive spinal surgery techniques. <i>Journal of Spine Surgery</i> , 2020, 6, S249-S259.	1.2	14
50	Lumbar vacuum disc, vertical instability, standalone endoscopic interbody fusion, and other treatments: an opinion based survey among minimally invasive spinal surgeons. <i>Journal of Spine Surgery</i> , 2020, 6, S165-S178.	1.2	14
51	Difficulties, Challenges, and the Learning Curve of Avoiding Complications in Lumbar Endoscopic Spine Surgery. <i>International Journal of Spine Surgery</i> , 2021, 15, S21-S37.	1.5	14
52	Atraumatic odontoid fractures in patients with rheumatoid arthritis. <i>Spine Journal</i> , 2006, 6, 529-533.	1.3	13
53	Repopulation of laser-perforated chondroepiphyseal matrix with xenogeneic chondrocytes: An experimental model. <i>Journal of Orthopaedic Research</i> , 1996, 14, 102-107.	2.3	12
54	Retrospective analysis of accuracy and positive predictive value of preoperative lumbar MRI grading after successful outcome following outpatient endoscopic decompression for lumbar foraminal and lateral recess stenosis. <i>Clinical Neurology and Neurosurgery</i> , 2019, 181, 52.	1.4	12

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55	Outcomes with transforaminal endoscopic versus percutaneous laser decompression for contained lumbar herniated disc: a survival analysis of treatment benefit. <i>Journal of Spine Surgery</i> , 2020, 6, S84-S99.	1.2	12
56	Full-Endoscopic Oblique Lateral Lumbar Interbody Fusion: A Technical Note With 1-Year Follow-Up. <i>International Journal of Spine Surgery</i> , 2021, 15, 8072.	1.5	12
57	Biodegradable Foam Coating of Cortical Allografts. <i>Tissue Engineering</i> , 2000, 6, 217-227.	4.6	11
58	Tissue responses to molecularly reinforced polylactide-co-glycolide implants. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000, 11, 401-414.	3.5	11
59	Use of "Inside-Out" Technique for Direct Visualization of a Vacuum Vertically Unstable Intervertebral Disc During Routine Lumbar Endoscopic Transforaminal Decompression" A Correlative Study of Clinical Outcomes and the Prognostic Value of Lumbar Radiographs. <i>International Journal of Spine Surgery</i> , 2019, 13, 399-414.	1.5	11
60	Artificial Intelligence Comparison of the Radiologist Report With Endoscopic Predictors of Successful Transforaminal Decompression for Painful Conditions of the Lumbar Spine: Application of Deep Learning Algorithm Interpretation of Routine Lumbar Magnetic Resonance Imaging Scan. <i>International Journal of Spine Surgery</i> , 2020, 14, S75-S85.	1.5	11
61	Porous Poly(propylene Fumarate) Foam Coating of Orthotopic Cortical Bone Grafts for Improved Osteoconduction. <i>Tissue Engineering</i> , 2002, 8, 1017-1027.	4.6	10
62	Standalone lordotic endoscopic wedge lumbar interbody fusion (LEW-LIF <sub>LD</sub> ) with a threaded cylindrical peek cage: report of two cases. <i>Journal of Spine Surgery</i> , 2020, 6, S275-S285.	1.2	10
63	Use of the Er:YAG laser for improved plating in maxillofacial surgery: Comparison of bone healing in laser and drill osteotomies. <i>Lasers in Surgery and Medicine</i> , 1996, 19, 40-45.	2.1	9
64	Expandable Interbody Fusion Cages: An Editorial on the Surgeon's Perspective on Recent Technological Advances and Their Biomechanical Implications. <i>International Journal of Spine Surgery</i> , 2020, 14, S56-S62.	1.5	9
65	Meaningful outcome research to validate endoscopic treatment of common lumbar pain generators with durability analysis. <i>Journal of Spine Surgery</i> , 2020, 6, S6-S13.	1.2	8
66	Endoscopic Techniques for Lumbar Interbody Fusion: Principles and Context. <i>BioMed Research International</i> , 2022, 2022, 1-9.	1.9	8
67	Endoscopic Transforaminal Lumbar Interbody Fusion With a Single Oblique PEEK Cage and Posterior Supplemental Fixation. <i>International Journal of Spine Surgery</i> , 2020, 14, 7126.	1.5	7
68	Lumbar Endoscopic Bony and Soft Tissue Decompression With the Hybridized Inside-Out Approach: A Review And Technical Note. <i>Neurospine</i> , 2020, 17, S34-S43.	2.9	7
69	Three-level bilateral pediculolysis following osteoporotic lumbar compression fracture. <i>Spine Journal</i> , 2006, 6, 539-543.	1.3	6
70	Feasibility of Using Intraoperative Neuromonitoring in the Prophylaxis of Dysesthesia in Transforaminal Endoscopic Discectomies of the Lumbar Spine. <i>Brain Sciences</i> , 2020, 10, 522.	2.3	6
71	Clinical outcomes with endoscopic resection of lumbar extradural cysts. <i>Journal of Spine Surgery</i> , 2020, 6, S133-S144.	1.2	6
72	Surgical treatment of cervical radiculopathy using an anterior cervical endoscopic decompression. <i>Journal of Spine Surgery</i> , 2020, 6, S179-S185.	1.2	6

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73	Minimally invasive debridement and drainage using intraoperative CT-Guide in multilevel spondylodiscitis: a long-term follow-up study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 120.	1.9	6
74	Full Endoscopic Lumbar Discectomy Versus Laminectomy for Cauda Equina Syndrome. <i>International Journal of Spine Surgery</i> , 2021, 15, 105-112.	1.5	5
75	Transforaminal Endoscopic Discectomy Combined With an Interspinous Process Distraction System for Spinal Stenosis. <i>International Journal of Spine Surgery</i> , 2020, 14, S4-S12.	1.5	5
76	Composite poly(lactide)/hydroxylapatite screws for fixation of osteochondral osteotomies. A morphometric, histologic and radiographic study in sheep. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 1241-1258.	3.5	4
77	Transforaminal endoscopic decompression and uninstrumented allograft lumbar interbody fusion: A feasibility study in patients with end-stage vacuum degenerative disc disease. <i>Clinical Neurology and Neurosurgery</i> , 2020, 196, 106002.	1.4	3
78	Reliability Analysis of Deep Learning Algorithms for Reporting of Routine Lumbar MRI Scans. <i>International Journal of Spine Surgery</i> , 2020, 14, 7132.	1.5	3
79	Current Concepts of Contemporary Expandable Lumbar Interbody Fusion Cage Designs, Part 1: An Editorial on Their Biomechanical Characteristics. <i>International Journal of Spine Surgery</i> , 2020, 14, S63-S67.	1.5	3
80	Patient selection criteria for percutaneous anterior cervical laser versus endoscopic discectomy. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 530-539.	2.1	3
81	Durability of Endoscopes Used During Routine Lumbar Endoscopy: An Analysis of Use Patterns, Common Failure Modes, Impact on Patient Care, and Contingency Plans. <i>International Journal of Spine Surgery</i> , 2021, 15, 1147-1160.	1.5	3
82	Differential Agnostic Effect Size Analysis of Lumbar Stenosis Surgeries. <i>International Journal of Spine Surgery</i> , 2022, 16, 318-342.	1.5	3
83	Advances in the biology of spinal fusion: growth factors and gene therapy. <i>Current Opinion in Orthopaedics</i> , 2000, 11, 167-175.	0.3	2
84	Intradiscal Expandable Balloon Distraction During Transforaminal Decompression for Lumbar Foraminal and Lateral Recess Stenosis. <i>Surgical Innovation</i> , 2018, 25, 165-173.	0.9	2
85	Kinetics of cortical bone demineralization: Controlled demineralization—a new method for modifying cortical bone allografts. <i>Journal of Biomedical Materials Research Part B</i> , 1996, 31, 365-372.	3.1	2
86	Expandable Interbody Fusion Cages: An Editorial on the Surgeon's Perspective on Recent Technological Advances and Their Biomechanical Implications. <i>International Journal of Spine Surgery</i> , 2020, 14, S56-S62.	1.5	2
87	A Proposed Personalized Spine Care Protocol (SpineScreen) to Treat Visualized Pain Generators: An Illustrative Study Comparing Clinical Outcomes and Postoperative Reoperations between Targeted Endoscopic Lumbar Decompression Surgery, Minimally Invasive TLIF and Open Laminectomy. <i>Journal of Personalized Medicine</i> , 2022, 12, 1065.	2.5	2
88	A ROLE FOR VERTEBRAL BIOPSY IN SELECTED PATIENTS WITH KNOWN MALIGNANCY. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 1348-1353.	3.0	1
89	Transforaminal Endoscopic Discectomy Combined With an Interspinous Process Distraction System for Spinal Stenosis. <i>International Journal of Spine Surgery</i> , 2020, 14, S4-S12.	1.5	1
90	Composite resorbable polymer/hydroxylapatite composite screws for fixation of osteochondral osteotomies. <i>Bio-Medical Materials and Engineering</i> , 2002, 12, 423-38.	0.6	1

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91	A Differential Clinical Benefit Examination of Full Lumbar Endoscopy vs Interspinous Process Spacers in the Treatment of Spinal Stenosis: An Effect Size Meta-Analysis of Clinical Outcomes. International Journal of Spine Surgery, 2022, 16, 102-123.	1.5	1
92	Editors' Introduction: Modern Technology Applications in Minimally Invasive Spine Surgery Techniques. International Journal of Spine Surgery, 2020, 14, S3-S3.	1.5	0
93	Healing of osteochondral osteotomies after fixation with a hydroxyapatite-buffered polylactide. A histomorphometric and radiographic study in rabbits. Bio-Medical Materials and Engineering, 2002, 12, 259-70.	0.6	0
94	Editors'™ Commentary: <i>The Effect of Vitamin D Deficiency on Outcomes of Patients Undergoing Elective Spinal Fusion Surgery: A Systematic Review and Meta-Analysis</i> by Khalooeifard et al. International Journal of Spine Surgery, 2022, 16, 2-3.	1.5	0
95	Magnetic Resonance Imaging Documentation of Approach Trauma With Lumbar Endoscopic Interlaminar, Translaminar, Compared to Open Microsurgical Discectomy. International Journal of Spine Surgery, 2022, 16, 343-352.	1.5	0