

# Ronald A Lehman

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,179  
citations

471509

17  
h-index

434195

31  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in resource utilization and rate of cervical disc arthroplasty and anterior cervical discectomy and fusion throughout the United States from 2006 to 2013. <i>Spine Journal</i> , 2018, 18, 1022-1029.	1.3	175
2	Opioid use following cervical spine surgery: trends and factors associated with long-term use. <i>Spine Journal</i> , 2018, 18, 1974-1981.	1.3	93
3	The Free-Hand Technique for S2-Alar-Iliac Screw Placement. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 334-342.	3.0	61
4	Neuromonitoring in Spinal Deformity Surgery: A Multimodality Approach. <i>Global Spine Journal</i> , 2018, 8, 68-77.	2.3	57
5	Accuracy of S2 Alar-Iliac Screw Placement Under Robotic Guidance. <i>Spine Deformity</i> , 2018, 6, 130-136.	1.5	57
6	Hip and knee arthroplasty are common among patients with transthyretin cardiac amyloidosis, occurring years before cardiac amyloid diagnosis: can we identify affected patients earlier?. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 224-228.	3.0	56
7	Human versus Robot. <i>Spine</i> , 2018, 43, E1297-E1304.	2.0	44
8	Recent trends in medicare utilization and reimbursement for lumbar spine fusion and discectomy procedures. <i>Spine Journal</i> , 2020, 20, 1586-1594.	1.3	43
9	Vertebral Column Resection for Rigid Spinal Deformity. <i>Global Spine Journal</i> , 2017, 7, 280-290.	2.3	38
10	Optimizing the Spinal Interbody Implant: Current Advances in Material Modification and Surface Treatment Technologies. <i>Current Reviews in Musculoskeletal Medicine</i> , 2020, 13, 688-695.	3.5	32
11	A Systematic Review of Treatment Strategies for Degenerative Lumbar Spine Fusion Surgery in Patients With Osteoporosis. <i>Geriatric Orthopaedic Surgery and Rehabilitation</i> , 2016, 7, 188-196.	1.4	28
12	The medicolegal landscape of spine surgery: how do surgeons fare?. <i>Spine Journal</i> , 2018, 18, 209-215.	1.3	28
13	Sacropelvic Fixation. <i>Neurosurgery Clinics of North America</i> , 2018, 29, 389-397.	1.7	26
14	Utilization of vertebroplasty and kyphoplasty procedures throughout the United States over a recent decade: an analysis of the Nationwide Inpatient Sample. <i>Journal of Spine Surgery</i> , 2017, 3, 364-370.	1.2	25
15	Utilization of intraoperative neuromonitoring throughout the United States over a recent decade: an analysis of the nationwide inpatient sample. <i>Journal of Spine Surgery</i> , 2018, 4, 211-219.	1.2	24
16	Complications following single-level interbody fusion procedures: an ACS-NSQIP study. <i>Journal of Spine Surgery</i> , 2018, 4, 17-27.	1.2	21
17	Preoperative halo-gravity traction for treatment of severe adult kyphosis and scoliosis. <i>Spine Deformity</i> , 2020, 8, 85-95.	1.5	21
18	Osteolysis after cervical disc arthroplasty. <i>European Spine Journal</i> , 2020, 29, 2723-2733.	2.2	20

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19	Robotic-assisted cortical bone trajectory (CBT) screws using the Mazor X Stealth Edition (MXSE) system: workflow and technical tips for safe and efficient use. <i>Journal of Robotic Surgery</i> , 2021, 15, 13-23.	1.8	20
20	A novel MRI-based classification of spinal cord shape and CSF presence at the curve apex to assess risk of intraoperative neuromonitoring data loss with thoracic spinal deformity correction. <i>Spine Deformity</i> , 2020, 8, 655-661.	1.5	18
21	High prevalence of greater trochanteric pain syndrome among patients presenting to spine clinic for evaluation of degenerative lumbar pathologies. <i>Journal of Clinical Neuroscience</i> , 2018, 53, 89-91.	1.5	16
22	The posterior superior iliac spine and sacral laminar slope: key anatomical landmarks for freehand S2-alar-iliac screw placement. <i>Journal of Neurosurgery: Spine</i> , 2018, 29, 429-434.	1.7	16
23	Recent Trends in Medicare Utilization and Reimbursement for Orthopaedic Procedures Performed at Ambulatory Surgery Centers. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 1383-1391.	3.0	16
24	State of the art review of new technologies in spine deformity surgery—robotics and navigation. <i>Spine Deformity</i> , 2022, 10, 5-17.	1.5	16
25	Reciprocal change of sagittal profile in unfused spinal segments and lower extremities after complex adult spinal deformity surgery including spinopelvic fixation: a full-body X-ray analysis. <i>Spine Journal</i> , 2020, 20, 380-390.	1.3	15
26	Does screw length for primary two-level ACDF influence pseudarthrosis risk?. <i>Spine Journal</i> , 2020, 20, 1752-1760.	1.3	13
27	Tissue engineering advances in spine surgery. <i>Regenerative Medicine</i> , 2016, 11, 211-222.	1.7	12
28	Return to Play After Cervical Disc Surgery. <i>Clinics in Sports Medicine</i> , 2016, 35, 529-543.	1.8	11
29	Is there a difference between navigated and non-navigated robot cohorts in robot-assisted spine surgery? A multicenter, propensity-matched analysis of 2,800 screws and 372 patients. <i>Spine Journal</i> , 2021, 21, 1504-1512.	1.3	11
30	Defining the “Critical Elements” for the Most Common Procedures in Spine Surgery. <i>Spine</i> , 2018, 43, E531-E536.	2.0	10
31	Reciprocal Change in Sagittal Profiles After Adolescent Idiopathic Scoliosis Surgery With Segmental Pedicle Screw Construct. <i>Spine</i> , 2019, 44, 1705-1714.	2.0	10
32	The accuracy of robot-assisted S2 alar-iliac screw placement at two different healthcare centers. <i>Journal of Spine Surgery</i> , 2021, 7, 326-334.	1.2	10
33	Visual Loss Following Spine Surgery. <i>Spine</i> , 2018, 43, 1201-1207.	2.0	9
34	Can Machine Learning Accurately Predict Postoperative Compensation for the Uninstrumented Thoracic Spine and Pelvis After Fusion From the Lower Thoracic Spine to the Sacrum?. <i>Global Spine Journal</i> , 2020, , 219256822095697.	2.3	9
35	Reoperation after in-theater combat spine surgery. <i>Spine Journal</i> , 2016, 16, 329-334.	1.3	8
36	A multicenter study of the 5-year trends in robot-assisted spine surgery outcomes and complications. <i>Journal of Spine Surgery</i> , 2022, 8, 9-20.	1.2	8

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37	The role of perioperative ketamine in postoperative pain control following spinal surgery. <i>Journal of Spine Surgery</i> , 2020, 6, 591-597.	1.2	7
38	What Is the Impact of Surgical Approach in the Treatment of Degenerative Cervical Myelopathy in Patients With OPLL? A Propensity-Score Matched, Multi-Center Analysis on Inpatient and Post-Discharge 90-Day Outcomes. <i>Global Spine Journal</i> , 2023, 13, 324-333.	2.3	7
39	What Is the Comparison in Robot Time per Screw, Radiation Exposure, Robot Abandonment, Screw Accuracy, and Clinical Outcomes Between Percutaneous and Open Robot-Assisted Short Lumbar Fusion?. <i>Spine</i> , 2022, 47, 42-48.	2.0	7
40	Do robot-related complications influence 1 year reoperations and other clinical outcomes after robot-assisted lumbar arthrodesis? A multicenter assessment of 320 patients. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 308.	2.3	6
41	Is There a Difference in Screw Accuracy, Robot Time Per Screw, Robot Abandonment, and Radiation Exposure Between the Mazor X and the Renaissance? A Propensity-Matched Analysis of 1179 Robot-Assisted Screws. <i>Global Spine Journal</i> , 2021, , 219256822110298.	2.3	6
42	Evaluation of a more ventral starting point for thoracic pedicle screws: higher maximal insertional arc and more medial and safer screw angulation. <i>Journal of Neurosurgery: Spine</i> , 2019, 30, 337-343.	1.7	6
43	Do readmissions and reoperations adversely affect patient-reported outcomes following complex adult spinal deformity surgery at a minimum 2 years postoperative?. <i>Spine Deformity</i> , 2021, 9, 789-801.	1.5	5
44	Be Prepared: Preoperative Coronal Malalignment Often Leads to More Extensive Surgery Than Sagittal Malalignment During Adult Spinal Deformity Surgery. <i>Neurospine</i> , 2021, 18, 570-579.	2.9	5
45	Utilization of Interspinous Devices Throughout the United States Over a Recent Decade: An Analysis of the Nationwide Inpatient Sample. <i>Global Spine Journal</i> , 2018, 8, 382-387.	2.3	4
46	Surgeon-specific risk stratification model for early complications after complex adult spinal deformity surgery. <i>Spine Deformity</i> , 2020, 8, 97-104.	1.5	4
47	Revision Anterior Cervical Disc Arthroplasty: A National Analysis of the Associated Indications, Procedures, and Postoperative Outcomes. <i>Global Spine Journal</i> , 2021, , 219256822097914.	2.3	4
48	Flexion-extension standing radiographs underestimate instability in patients with single-level lumbar spondylolisthesis: comparing flexion-supine imaging may be more appropriate. <i>Journal of Spine Surgery</i> , 2021, 7, 48-54.	1.2	4
49	CT-to-fluoroscopy registration versus scan-and-plan registration for robot-assisted insertion of lumbar pedicle screws. <i>Neurosurgical Focus</i> , 2022, 52, E8.	2.3	4
50	Frequency and Acceptability of Adverse Events After Anterior Cervical Discectomy and Fusion. <i>Clinical Spine Surgery</i> , 2018, 31, E270-E277.	1.3	3
51	Prevalence and Predictive Factors of Concurrent Cervical Spinal Cord Compression in Adult Spinal Deformity. <i>Spine</i> , 2019, 44, 1049-1056.	2.0	3
52	Intraoperative versus postoperative radiographic coronal balance for adult spinal deformity surgery. <i>Spine Deformity</i> , 2021, 9, 1077-1084.	1.5	3
53	Identification of Anterior Cervical Spinal Instrumentation Using A Smartphone Application Powered by Machine Learning. <i>Spine</i> , 2021, Publish Ahead of Print, .	2.0	3
54	Cervical Spinal Fusion in Adult Patients With Rheumatoid Arthritis. <i>Spine</i> , 2021, 46, E23-E30.	2.0	3

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55	Understanding the role of pelvic obliquity and leg length discrepancy in adult spinal deformity patients with coronal malalignment: unlocking the black box. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 64-72.	1.7	3
56	The deformity angular ratio: can three-dimensional computed tomography improve prediction of intraoperative neuromonitoring events?. <i>Spine Deformity</i> , 2022, 10, 1047-1053.	1.5	3
57	Decision making for upper instrumented vertebra in thoracolumbar/lumbar adolescent idiopathic scoliosis: can we stop below the end vertebra?. <i>Spine Journal</i> , 2016, 16, 288-290.	1.3	2
58	Robotic-Assisted Spine Surgery Using the Mazor XTM System: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2019, 16, E123-E123.	0.8	2
59	Epidemiology of Spine-Related Neurologic Injuries in Professional Baseball Players. <i>Spine</i> , 2021, Publish Ahead of Print, .	2.0	2
60	Return to golf after adult degenerative and deformity spine surgery: a preliminary case series of how surgery impacts golf play and performance. <i>Journal of Spine Surgery</i> , 2021, 7, 289-299.	1.2	2
61	Incidence and risk factors of iatrogenic coronal malalignment after adult spinal deformity surgery: a single-center experience. <i>Journal of Neurosurgery: Spine</i> , 2021, , 1-10.	1.7	2
62	Pelvic parameters directly influence ideal S2 alar-iliac (S2AI) screw trajectory. <i>North American Spine Society Journal (NASS)</i> , 2020, 2, 100014.	0.5	1
63	Evaluation of coronal alignment from the skull using the novel orbitalâ€œcoronal vertical axis line. <i>Journal of Neurosurgery: Spine</i> , 2022, , 1-10.	1.7	1
64	Lumbar discectomies in elite rowers: presentation, operative treatment, and return to play. <i>Physician and Sportsmedicine</i> , 2021, , 1-5.	2.1	0