

# JosÃ© Miguel Spirig

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

315  
citations

933447

10  
h-index

940533

16  
g-index

29  
all docs

29  
docs citations

29  
times ranked

288  
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI appearance of adjunct surgical material used in spine surgery. Spine Journal, 2022, 22, 75-83.	1.3	2
2	[18F]-sodium fluoride PET/MR for painful lumbar facet joint degeneration – a randomized controlled clinical trial. Spine Journal, 2022, 22, 769-775.	1.3	6
3	Spinal decompression with patient-specific guides. Spine Journal, 2022, 22, 1160-1168.	1.3	3
4	Risk factors for L5 pedicle fractures after single-level posterior spinal fusion. Spine Journal, 2022, 22, 927-933.	1.3	3
5	Marker-free surgical navigation of rod bending using a stereo neural network and augmented reality in spinal fusion. Medical Image Analysis, 2022, 77, 102365.	11.6	12
6	Lower effectiveness of facet joint infiltration in patients with concurrent facet joint degeneration and active endplate changes. Spine Journal, 2022, 22, 1265-1270.	1.3	3
7	Pelvic fixation in surgical correction of neuromuscular scoliosis. North American Spine Society Journal (NASSJ), 2022, 10, 100123.	0.5	2
8	The biomechanical fundamentals of crosslink-augmentation in posterior spinal instrumentation. Scientific Reports, 2022, 12, 7621.	3.3	2
9	Template guided cervical pedicle screw instrumentation. North American Spine Society Journal (NASSJ), 2022, 10, 100120.	0.5	3
10	Spondylophyte classification based on biomechanical effects on segmental stiffness. Spine Journal, 2022, 22, 1903-1912.	1.3	1
11	Cross-links in posterior pedicle screw-rod instrumentation of the spine: a systematic review on mechanical, biomechanical, numerical and clinical studies. European Spine Journal, 2021, 30, 34-49.	2.2	21
12	Occipitopexy as a Fusionless Solution for Dropped Head Syndrome. JBJS Case Connector, 2021, 11, .	0.3	5
13	The Restless Spinal Cord in Degenerative Cervical Myelopathy. American Journal of Neuroradiology, 2021, 42, 597-609.	2.4	19
14	Reducing the kyphosis effect of anterior short thoracolumbar/lumbar scoliosis correction with an autograft fulcrum effect. BMC Musculoskeletal Disorders, 2021, 22, 216.	1.9	1
15	Intraoperative hyperspectral label-free imaging: from system design to first-in-patient translation. Journal Physics D: Applied Physics, 2021, 54, 294003.	2.8	15
16	Biomechanical performance of bicortical versus pericortical bone trajectory (CBT) pedicle screws. European Spine Journal, 2021, 30, 2292-2300.	2.2	5
17	First in man in-situ augmented reality pedicle screw navigation. North American Spine Society Journal (NASSJ), 2021, 6, 100065.	0.5	14
18	Anterior artery release, distraction and fusion (ARDF) for radiculopathy caused by a vertebral artery loop. European Spine Journal, 2021, , 1.	2.2	0

#	ARTICLE	IF	CITATIONS
19	Augmented reality-navigated pedicle screw placement: a cadaveric pilot study. <i>European Spine Journal</i> , 2021, 30, 3731-3737.	2.2	18
20	Pedicle subtraction osteotomy with patient-specific instruments. <i>North American Spine Society Journal (NASS)</i> , 2021, 7, 100075.	0.5	0
21	Operator independent reliability of direct augmented reality navigated pedicle screw placement and rod bending. <i>North American Spine Society Journal (NASS)</i> , 2021, 8, 100084.	0.5	9
22	Partial sacrectomy with patient-specific osteotomy guides. <i>North American Spine Society Journal (NASS)</i> , 2021, 8, 100090.	0.5	2
23	Posterior spinal instrumentation and decompression with or without cross-link?. <i>North American Spine Society Journal (NASS)</i> , 2021, 8, 100093.	0.5	3
24	Surgical Process Modeling for Open Spinal Surgeries. <i>Frontiers in Surgery</i> , 2021, 8, 776945.	1.4	1
25	Augmented reality navigation for spinal pedicle screw instrumentation using intraoperative 3D imaging. <i>Spine Journal</i> , 2020, 20, 621-628.	1.3	75
26	Ultrasound-guided interventions with augmented reality in situ visualisation: a proof-of-mechanism phantom study. <i>European Radiology Experimental</i> , 2020, 4, 7.	3.4	21
27	Value of standard radiographs, computed tomography, and magnetic resonance imaging of the lumbar spine in detection of intraoperatively confirmed pedicle screw loosening—a prospective clinical trial. <i>Spine Journal</i> , 2019, 19, 461-468.	1.3	29
28	Watertightness of wound closure in lumbar spine—a comparison of different techniques. <i>Journal of Spine Surgery</i> , 2019, 5, 358-364.	1.2	5
29	Augmented reality-assisted rod bending in spinal surgery. <i>Spine Journal</i> , 2019, 19, 1687-1689.	1.3	35