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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	Augmented reality navigation for spinal pedicle screw instrumentation using intraoperative 3D imaging. Spine Journal, 2020, 20, 621-628.	1.3	75
2	Augmented reality-assisted rod bending in spinal surgery. Spine Journal, 2019, 19, 1687-1689.	1.3	35
3	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. Spine Journal, 2019, 19, 461-468.	1.3	29
4	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
5	Ultrasound-guided interventions with augmented reality in situ visualisation: a proof-of-mechanism phantom study. European Radiology Experimental, 2020, 4, 7.	3.4	21
6	The Restless Spinal Cord in Degenerative Cervical Myelopathy. American Journal of Neuroradiology, 2021, 42, 597-609.	2.4	19
7	Augmented reality-navigated pedicle screw placement: a cadaveric pilot study. European Spine Journal, 2021, 30, 3731-3737.	2.2	18
8	Intraoperative hyperspectral label-free imaging: from system design to first-in-patient translation. Journal Physics D: Applied Physics, 2021, 54, 294003.	2.8	15
9	First in man in-situ augmented reality pedicle screw navigation. North American Spine Society Journal (NASSJ), 2021, 6, 100065.	0.5	14
10	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
11	Operator independent reliability of direct augmented reality navigated pedicle screw placement and rod bending. North American Spine Society Journal (NASSJ), 2021, 8, 100084.	0.5	9
12	[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
13	Watertightness of wound closure in lumbar spine—a comparison of different techniques. Journal of Spine Surgery, 2019, 5, 358-364.	1.2	5
14	Occipitopexy as a Fusionless Solution for Dropped Head Syndrome. JBJS Case Connector, 2021, 11, .	0.3	5
15	Biomechanical performance of bicortical versus pericortical bone trajectory (CBT) pedicle screws. European Spine Journal, 2021, 30, 2292-2300.	2.2	5
16	Posterior spinal instrumentation and decompression with or without cross-link?. North American Spine Society Journal (NASSJ), 2021, 8, 100093.	0.5	3
17	Spinal decompression with patient-specific guides. Spine Journal, 2022, 22, 1160-1168.	1.3	3
18	Risk factors for L5 pedicle fractures after single-level posterior spinal fusion. Spine Journal, 2022, 22, 927-933.	1.3	3

#	ARTICLE	IF	CITATIONS
19	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
20	Template guided cervical pedicle screw instrumentation. North American Spine Society Journal (NASSJ), 2022, 10, 100120.	0.5	3
21	MRI appearance of adjunct surgical material used in spine surgery. Spine Journal, 2022, 22, 75-83.	1.3	2
22	Partial sacrectomy with patient-specific osteotomy guides. North American Spine Society Journal (NASSJ), 2021, 8, 100090.	0.5	2
23	Pelvic fixation in surgical correction of neuromuscular scoliosis. North American Spine Society Journal (NASSJ), 2022, 10, 100123.	0.5	2
24	The biomechanical fundamentals of crosslink-augmentation in posterior spinal instrumentation. Scientific Reports, 2022, 12, 7621.	3.3	2
25	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
26	Surgical Process Modeling for Open Spinal Surgeries. Frontiers in Surgery, 2021, 8, 776945.	1.4	1
27	Spondylophyte classification based on biomechanical effects on segmental stiffness. Spine Journal, 2022, 22, 1903-1912.	1.3	1
28	Anterior artery release, distraction and fusion (ARDF) for radiculopathy caused by a vertebral artery loop. European Spine Journal, 2021, , 1.	2.2	0
29	Pedicle subtraction osteotomy with patient-specific instruments. North American Spine Society Journal (NASSJ), 2021, 7, 100075.	0.5	0