High-intensity zone: a diagnostic sign of painful lumbar imaging

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Citation Report

#	Article	IF	Citations
1	Does degenerative disease of the lumbar spine cause arachnoiditis? A magnetic resonance study and review of the literature. British Journal of Radiology, 1994, 67, 840-847.	1.0	22
2	Bony vibration stimulation: A new, non-invasive method for examining intradiscal pain. European Spine Journal, 1994, 3, 233-235.	1.0	35
3	Diskography. APS Journal, 1994, 3, 149-154.	0.2	2
4	Use of disk distension to diagnose pain of spinal origin. APS Journal, 1994, 3, 157-159.	0.2	0
5	Lumbar Discography. Physical Medicine and Rehabilitation Clinics of North America, 1995, 6, 743-770.	0.7	1
6	Serial MRI in the early postoperative period after lumbar discectomy. Neuroradiology, 1995, 37, 177-182.	1.1	51
7	Diagnostic Spinal Injection Procedures. Neurosurgery Clinics of North America, 1996, 7, 151-166.	0.8	27
8	Cervical Discogenic Pain. Spine, 1996, 21, 300-311.	1.0	216
9	Lumbar Disc High-intensity Zone. Spine, 1996, 21, 79-86.	1.0	270
10	The Prolapsed Intervertebral Disc. Spine, 1996, 21, 2758-2762.	1.0	99
11	Clinical efficacy of imaging modalities in the diagnosis of low-back pain disorders. European Spine Journal, 1996, 5, 2-22.	1.0	64
12	Bony Vibration Stimulation Test Combined With Magnetic Resonance Imaging. Spine, 1997, 22, 808-813.	1.0	34
13	Letters. Spine, 1997, 22, 1538.	1.0	4
14	Management of Flatback and Related Kyphotic Decompensation Syndromes. Spine, 1997, 22, 2452-2457.	1.0	205
15	A Prospective Study of Centralization of Lumbar and Referred Pain. Spine, 1997, 22, 1115-1122.	1.0	237
16	Work-Up for Neck Pain and Low Back Pain. Physical Medicine and Rehabilitation Clinics of North America, 1997, 8, 137-152.	0.7	0
17	Contrast enhancement pattern and frequency of previously unoperated lumbar discs on MRI. Journal of Magnetic Resonance Imaging, 1997, 7, 575-578.	1.9	21
18	6 What help and what confusion can imaging provide?. Bailliere's Clinical Rheumatology, 1998, 12, 115-139.	1.0	10

#	Article	IF	CITATIONS
19	Vertebral end-plate (Modic) changes on lumbar spine MRI: correlation with pain reproduction at lumbar discography. European Spine Journal, 1998, 7, 363-368.	1.0	303
20	MRI of the ageing and herniating intervertebral disc. European Journal of Radiology, 1998, 27, 214-228.	1,2	18
21	DISCOGRAPHY 2000. Radiologic Clinics of North America, 1998, 36, 463-495.	0.9	59
22	MR abnormalities of the intervertebral disks and adjacent bone marrow as predictors of segmental instability of the lumbar spine. Acta Radiologica, 1998, 39, 18-23.	0.5	58
23	Point of View: Predictive Signs of Discogenic Lumbar Pain on Magnetic Resonance Imaging With Discography Correlation. Spine, 1998, 23, 1259-1260.	1.0	20
24	The Stiffness of Lumbar Spinal Motion Segments With a High-Intensity Zone in the Anulus Fibrosus. Spine, 1998, 23, 2167-2173.	1.0	76
25	Magnetic Resonance Imaging in Low Back Pain: General Principles and Clinical Issues. Physical Therapy, 1998, 78, 738-753.	1.1	47
26	Predictive Signs of Discogenic Lumbar Pain on Magnetic Resonance Imaging With Discography Correlation. Spine, 1998, 23, 1252-1258.	1.0	178
27	Interobserver Reliability of Detecting Lumbar Intervertebral Disc High-Intensity Zone on Magnetic Resonance Imaging and Association of High-Intensity Zone With Pain and Anular Disruption. Spine, 1998, 23, 2074-2080.	1.0	92
28	The Value of Lumbar Spine Magnetic Resonance Imaging in the Demonstration of Anular Tears. Spine, 1998, 23, 453-457.	1.0	131
29	The spine in rheumatological disorders. Imaging, 1999, 11, 104-118.	0.0	5
30	Extradural inflammation associated with annular tears: demonstration with gadolinium-enhanced lumbar spine MRI. European Spine Journal, 1999, 8, 34-39.	1.0	49
31	Discography: A review. Current Review of Pain, 1999, 3, 473-480.	0.8	8
32	MRI of the lumbar intervertebral disc. Clinical Radiology, 1999, 54, 703-723.	0.5	31
33	Point of View: Differentiating Lumbar Disc Protrusions, Disc Bulges, and Discs With Normal Contour but Abnormal Signal Intensity. Spine, 1999, 24, 53.	1.0	1
34	Differentiating Lumbar Disc Protrusions, Disc Bulges, and Discs With Normal Contour but Abnormal Signal Intensity. Spine, 1999, 24, 44-53.	1.0	133
35	The Clinical Significance of the High-Intensity Zone on Lumbar Spine Magnetic Resonance Imaging. Spine, 1999, 24, 1913.	1.0	62
36	Flexibility of lumbar spinal motion segments correlated to type of tears in the annulus fibrosus. Journal of Neurosurgery: Spine, 2000, 92, 81-86.	0.9	17

#	Article	IF	CITATIONS
37	Low Back Pain in Relation to Lumbar Disc Degeneration. Spine, 2000, 25, 487-492.	1.0	950
38	Twelve-Month Follow-Up of a Controlled Trial of Intradiscal Thermal Anuloplasty for Back Pain Due to Internal Disc Disruption. Spine, 2000, 25, 2601-2607.	1.0	188
39	Lumbar High-Intensity Zone and Discography in Subjects Without Low Back Problems. Spine, 2000, 25, 2987-2992.	1.0	293
40	Développement et vieillissement du disque intervertébral lombaire. Revue Du Rhumatisme (Edition) Tj ETQq1	1,0,78431	14 rgBT /O\
41	Données épidémiologiques sur la détérioration discale. Revue Du Rhumatisme (Edition Francaise), 2000, 67, 247-252.	0.0	2
42	Développement et vieillissement du disque intervertébral lombaire. Revue Du Rhumatisme (Edition) Tj ETQq1	1,0,78431	lą rgBT /O\
44	Discography. Current Review of Pain, 2000, 4, 345-352.	0.8	17
45	Is lumbar discography a determinate of discogenic low back pain: Provocative discography reconsidered. Current Review of Pain, 2000, 4, 301-308.	0.8	40
46	Lumbar disc high-intensity zone: the value and significance of provocative discography in the determination of the discogenic pain source. European Spine Journal, 2000, 9, 36-41.	1.0	147
47	Internal Disc Disruption and Axial Back Pain in the Athlete. Physical Medicine and Rehabilitation Clinics of North America, 2000, 11, 837-865.	0.7	41
48	Intradiscal electrothermal therapy for the treatment of chronic discogenic low back pain. Operative Techniques in Orthopaedics, 2000, 10, 271-281.	0.2	12
49	CLASSIFICATION, DIAGNOSTIC IMAGING, AND IMAGING CHARACTERIZATION OF A LUMBAR HERNIATED DISK. Radiologic Clinics of North America, 2000, 38, 1267-1292.	0.9	75
50	BACK INJURIES IN THE YOUNG ATHLETE. Clinics in Sports Medicine, 2000, 19, 663-679.	0.9	128
51	IMAGING OF LUMBAR INTERVERTEBRAL DISK DEGENERATION AND AGING, EXCLUDING DISK HERNIATIONS. Radiologic Clinics of North America, 2000, 38, 1255-1266.	0.9	33
52	Discography: Patient Selection, Technique and Interpretation. Journal of Vascular and Interventional Radiology, 2000, 11, 46-47.	0.2	0
53	Selective Nerve Root and Facet Blocks. Journal of Vascular and Interventional Radiology, 2000, 11, 43-45.	0.2	0
54	Discography and discogenic pain. Techniques in Regional Anesthesia and Pain Management, 2000, 4, 126-131.	0.2	3
55	Discography, a review. Spine Journal, 2001, 1, 364-372.	0.6	85

#	Article	IF	CITATIONS
56	Intradiskal electrothermal therapy: A preliminary histologic study. Archives of Physical Medicine and Rehabilitation, 2001, 82, 1230-1237.	0.5	84
57	Radiologic Assessment of Lumbar Intervertebral Instability and Degenerative Spondylolisthesis. Radiologic Clinics of North America, 2001, 39, 55-71.	0.9	76
59	Image Study of the Lumbar Spine. Journal of Korean Society of Spine Surgery, 2001, 8, 298.	0.3	2
60	The Longitudinal Assessment of Imaging and Disability of the Back (LAIDBack) Study. Spine, 2001, 26, 1158-1166.	1.0	255
61	Degenerative Diseases of the Vertebral Column. Contemporary Spine Surgery, 2001, 2, 29-34.	0.2	0
63	Painful Lumbar Disk Derangement: Relevance of Endplate Abnormalities at MR Imaging. Radiology, 2001, 218, 420-427.	3.6	300
64	MRI FINDINGS AFTER AN EXPERIMENTAL DISC LESION. Journal of Musculoskeletal Research, 2001, 05, 95-104.	0.1	1
65	Proper Use of MR Imaging for Evaluation of Low Back Pain (Radiologist's View). Seminars in Musculoskeletal Radiology, 2001, 05, 133-136.	0.4	12
66	Diagnosis of Symptomatic Disc by Magnetic Resonance Imaging: T2-Weighted and Gadolinium-DTPA-Enhanced T1-Weighted Magnetic Resonance Imaging. Journal of Spinal Disorders and Techniques, 2002, 15, 193-198.	1.8	33
67	Discography interpretation and techniques in the lumbar spine. Neurosurgical Focus, 2002, 13, 1-8.	1.0	15
68	Diagnostic Evaluation of Low Back Pain with Emphasis on Imaging. Annals of Internal Medicine, 2002, 137, 586.	2.0	543
69	Magnetic Resonance Imaging Findings in Relation to the COL9A2 Tryptophan Allele Among Patients With Sciatica. Spine, 2002, 27, 78-82.	1.0	45
70	Is There a Connection Between the Clinical Response After an External Fixation Test or a Subsequent Lumbar Fusion and the Pre-Test Intervertebral Kinematics?. Spine, 2002, 27, 2726-2733.	1.0	6
71	Young Investigator Award 2001 Winner: Risk Factors for Lumbar Disc Degeneration. Spine, 2002, 27, 125-134.	1.0	213
72	The Diagnostic Value of Contrast-Enhanced Magnetic Resonance Imaging in the Detection of Experimentally Induced Anular Tears in Sheep. Spine, 2002, 27, 2806-2810.	1.0	8
73	Provocative discography in volunteer subjects with mild persistent low back pain. Spine Journal, 2002, 2, 25-34.	0.6	81
74	Discography. Techniques in Vascular and Interventional Radiology, 2002, 5, 207-216.	0.4	4
7 5	The Palpation Reliability Debate: the experts respond. Journal of Bodywork and Movement Therapies, 2002, 6, 18.	0.5	8

#	Article	IF	Citations
76	The Palpation Reliability Debate: the experts respond. Journal of Bodywork and Movement Therapies, 2002, 6, 23-25.	0.5	1
77	Intradiscal electrothermal therapy for the treatment of chronic discogenic low back pain. Clinics in Sports Medicine, 2002, 21, 167-187.	0.9	46
78	Spine interventions. Seminars in Roentgenology, 2002, 37, 266-281.	0.2	2
79	The Use of Radiofrequency Heat Lesions in the Treatment of Lumbar Discogenic Pain. Pain Practice, 2002, 2, 235-240.	0.9	9
80	Automated percutaneous lumbar discectomy: technique, indications and clinical follow-up in over 1000� patients. Neuroradiology, 2003, 45, 735-743.	1.1	33
81	Imaging of lumbar degenerative disc disease. Seminars in Spine Surgery, 2003, 15, 361-383.	0.1	6
82	The role of fusion in degenerative lumbar disease. Seminars in Spine Surgery, 2003, 15, 430-459.	0.1	2
83	Nuclear replacement strategies. Orthopedic Clinics of North America, 2003, 34, 263-267.	0.5	19
84	Indications, techniques, and outcomes of posterior surgery for chronic low back pain. Orthopedic Clinics of North America, 2003, 34, 297-308.	0.5	23
85	Imaging of adults with low back pain in the primary care setting. Neuroimaging Clinics of North America, 2003, 13, 293-305.	0.5	35
86	Minimally Invasive Procedures for Disorders of the Lumbar Spine. Mayo Clinic Proceedings, 2003, 78, 1249-1256.	1.4	48
87	Advances and current techniques forlumbar interbody fusion. Operative Techniques in Orthopaedics, 2003, 13, 195-201.	0.2	2
88	Advances in spinal instrumentation. Operative Techniques in Orthopaedics, 2003, 13, 159-170.	0.2	5
89	Lumbar discography. Spine Journal, 2003, 3, 11-27.	0.6	117
90	Diagnosing painful sacroiliac joints: A validity study of a McKenzie evaluation and sacroiliac provocation tests. Australian Journal of Physiotherapy, 2003, 49, 89-97.	0.9	248
91	Diagnostic criteria for the clinical syndrome of internal disc disruption: Are they reliable?. British Journal of Neurosurgery, 2003, 17, 19-23.	0.4	1
92	Radiologic Phenotypes in Lumbar MR Imaging for a Gene Defect in the COL9A3Gene of Type IX Collagen. Radiology, 2003, 227, 143-148.	3.6	39
93	High-Intensity Zone, Intradiscal Electrothermal Therapy, and Magnetic Resonance Imaging. Journal of Spinal Disorders and Techniques, 2003, 16, 130-136.	1.8	14

#	ARTICLE	IF	Citations
94	Magnetic Resonance Discography in Cadavers: Tears of the Annulus Fibrosus. Clinical Orthopaedics and Related Research, 2003, 407, 228-240.	0.7	31
95	Radiofrequency Lesioning Using Two Different Time Modalities for the Treatment of Lumbar Discogenic Pain: A Randomized Trial. Spine, 2003, 28, 1922-1927.	1.0	58
96	Development of Lumbar High Intensity Zone on Axial Loaded Magnetic Resonance Imaging. Spine, 2003, 28, E449-E451.	1.0	28
98	Intradiscal Electrothermal Therapy. Spine, 2003, 28, S8-S14.	1.0	24
99	Lumbar Whiplash. , 2003, , 475-483.		0
100	Treatment of Discogenic Back Pain. , 2004, , 167-180.		1
101	Sources anatomiques de la douleur cervicale. Revue Du Rhumatisme (Edition Française), 2004, 71, 650-652.	0.0	5
102	Diagnostic evaluation of low back pain. Orthopedic Clinics of North America, 2004, 35, 7-16.	0.5	112
103	MRI and Discography of the Lumbar Spine. Journal of Vascular and Interventional Radiology, 2004, 15, P117-P120.	0.2	0
104	Low back pain: diagnosis, treatment, and prognosis. Scandinavian Journal of Rheumatology, 2004, 33, 199-209.	0.6	44
105	Longitudinal study of high intensity zones on MR of lumbar intervertebral discs. Clinical Radiology, 2004, 59, 1002-1008.	0.5	48
106	Further doubt is cast on the significance of the high intensity zone. Clinical Radiology, 2004, 59, 1000-1001.	0.5	2
107	Radiofrequency denervation of the annulus fibrosus: a rationale. Techniques in Regional Anesthesia and Pain Management, 2004, 8, 41-45.	0.2	2
108	Imaging of disk disease and degenerative spondylosis of the lumbar spine. Seminars in Ultrasound, CT and MRI, 2004, 25, 506-522.	0.7	11
110	Value of Magnetic Resonance Imaging and Discography in Determining the Level of Cervical Discectomy and Fusion. Spine, 2004, 29, 2140-2145.	1.0	37
111	The TRP2 Allele of COL9A2 is an Age-Dependent Risk Factor for the Development and Severity of Intervertebral Disc Degeneration. Spine, 2005, 30, 2735-2742.	1.0	124
112	Treatment of Internal Disc Derangement by Posterior Lumbar Interbody Fusion and Posterior Instrumentation., 2005,, 87-97.		0
113	Magnetic Resonance Imaging and Low Back Pain in Adults: A Diagnostic Imaging Study of 40-Year-Old Men and Women. Spine, 2005, 30, 1173-1180.	1.0	357

#	Article	IF	Citations
114	An Epidemiologic Study of MRI and Low Back Pain in 13-Year-Old Children. Spine, 2005, 30, 798-806.	1.0	115
115	Three-Year Incidence of Low Back Pain in an Initially Asymptomatic Cohort. Spine, 2005, 30, 1541-1548.	1.0	263
116	Radiofrequency Heating of Painful Annular Disruptions. Journal of Spinal Disorders and Techniques, 2005, 18, 6-13.	1.8	54
117	Intradiscal Therapy. Spine, 2005, 30, S20-S26.	1.0	39
118	Single Cylindrical Threaded Cage Used in Recurrent Lumbar Disc Herniation. Journal of Spinal Disorders and Techniques, 2005, 18, S65-S72.	1.8	17
119	Intradiscal Electrothermal Annuloplasty. American Journal of Physical Medicine and Rehabilitation, 2005, 84, 538-549.	0.7	11
120	Lumbar Discography. Regional Anesthesia and Pain Medicine, 2005, 30, 163-183.	1.1	4
121	Intradiscal Electrothermal Coagulation and Percutaneous Neuromodulation Therapy in the Treatment of Discogenic Low Back Pain. Pain Practice, 2005, 5, 228-243.	0.9	2
122	Pressure-Controlled Lumbar Discography in Volunteers Without Low Back Symptoms. Pain Medicine, 2005, 6, 213-221.	0.9	92
123	The Biomechanics and Biology of the Spinal Degenerative Cascade. Seminars in Spine Surgery, 2005, 17, 128-136.	0.1	10
126	Discogenic pain in acute nonspecific low-back pain. European Spine Journal, 2005, 14, 573-577.	1.0	24
127	Selective Endoscopic Discectomyâ,,¢. , 2005, , 205-225.		0
128	Lumbar discography: Current concepts and controversies. Seminars in Ultrasound, CT and MRI, 2005, 26, 81-88.	0.7	7
129	Lumbar discography. Techniques in Regional Anesthesia and Pain Management, 2005, 9, 3-12.	0.2	1
130	Persistent Low Back Pain. New England Journal of Medicine, 2005, 352, 1891-1898.	13.9	197
131	Lumbar discography: A comprehensive review of outcome studies, diagnostic accuracy, and principles. Regional Anesthesia and Pain Medicine, 2005, 30, 163-183.	1.1	76
132	All That You Learned in Residency But Forgot: Spinal Imaging. Journal of Vascular and Interventional Radiology, 2005, 16, P298-P312.	0.2	0
133	Discogenic lumbar pain: association with MR imaging and CT discography. European Journal of Radiology, 2005, 54, 431-437.	1.2	91

#	Article	IF	Citations
134	Interventional spine procedures. European Journal of Radiology, 2005, 55, 362-383.	1.2	66
135	The association between negative affect and opioid analgesia in patients with discogenic low back pain. Pain, 2005, 117, 450-461.	2.0	162
136	The Relation Between Annular Disruption on Computed Tomography Scan and Pressure-Controlled Diskography. Archives of Physical Medicine and Rehabilitation, 2005, 86, 1534-1538.	0.5	41
137	Discograms: Cervical, thoracic, and lumbar. Techniques in Regional Anesthesia and Pain Management, 2005, 9, 97-105.	0.2	3
138	Discographic, MRI and psychosocial determinants of low back pain disability and remission: a prospective study in subjects with benign persistent back pain. Spine Journal, 2005, 5, 24-35.	0.6	349
139	Centralization as a predictor of provocation discography results in chronic low back pain, and the influence of disability and distress on diagnostic power. Spine Journal, 2005, 5, 370-380.	0.6	118
140	Degenerative Diseases of the Spine. , 2005, , 132-137.		2
141	Chapter 52 Chronic low back pain. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2006, 81, 779-790.	1.0	2
142	Technology Insight: imaging of low back pain. Nature Clinical Practice Rheumatology, 2006, 2, 554-561.	3.2	32
143	Are first-time episodes of serious LBP associated with new MRI findings?. Spine Journal, 2006, 6, 624-635.	0.6	148
144	Intradiscal injections of osteogenic protein-1 restore the viscoelastic properties of degenerated intervertebral discs. Spine Journal, 2006, 6, 692-703.	0.6	102
145	Diagnosis and Minimally Invasive Treatment of Lumbar Discogenic Pain – A Review of the Literature. Clinical Journal of Pain, 2006, 22, 468-481.	0.8	76
146	Are "Structural Abnormalities―on Magnetic Resonance Imaging a Contraindication to the Successful Conservative Treatment of Chronic Nonspecific Low Back Pain?. Spine, 2006, 31, 2250-2257.	1.0	76
147	Association of the Taq I Allele in Vitamin D Receptor With Degenerative Disc Disease and Disc Bulge in a Chinese Population. Spine, 2006, 31, 1143-1148.	1.0	123
148	A Gold Standard Evaluation of the "Discogenic Pain―Diagnosis as Determined by Provocative Discography. Spine, 2006, 31, 2115-2123.	1.0	207
149	The pathogenesis and clinical significance of a high-intensity zone (HIZ) of lumbar intervertebral disc on MR imaging in the patient with discogenic low back pain. European Spine Journal, 2006, 15, 583-587.	1.0	188
150	Chapter 4 European guidelines for the management of chronic nonspecific low back pain. European Spine Journal, 2006, 15, s192-s300.	1.0	1,955
151	Relationship between low back pain, disability, MR imaging findings and health care provider. Skeletal Radiology, 2006, 35, 641-647.	1.2	13

#	Article	IF	CITATIONS
154	Magnetic resonance imaging-guided diskography and diagnostic lumbar 0.23t MRI: an assessment study. Acta Radiologica, 2006, 47, 272-280.	0.5	6
155	Minimally Invasive Procedures for the Treatment of Failed Back Surgery Syndrome. Advances and Technical Standards in Neurosurgery, 2006, 31, 221-252.	0.2	14
156	Pain Improvement after Intradiskal Lidocaine Administration in Provocation Lumbar Diskography: Association with Diskographic Contrast Leakage. American Journal of Neuroradiology, 2007, 28, 1259-1265.	1.2	15
158	Lumbar Intervertebral Instability: A Review. Radiology, 2007, 245, 62-77.	3.6	239
159	The MR Imaging Features and Clinical Correlates in Low Back Pain–Related Syndromes. Magnetic Resonance Imaging Clinics of North America, 2007, 15, 137-154.	0.6	22
160	MRI findings in the lumbar spines of asymptomatic, adolescent, elite tennis players. British Journal of Sports Medicine, 2007, 41, 836-841.	3.1	93
161	Effects of monopolar radiofrequency heating on intradiscal pressure in sheep. Spine Journal, 2007, 7, 229-234.	0.6	10
162	Imaging the Degenerative Diseases of the Lumbar Spine. Magnetic Resonance Imaging Clinics of North America, 2007, 15, 221-238.	0.6	42
163	Degenerative Instability of the Lumbar Spine. Journal of Korean Society of Spine Surgery, 2007, 14, 292.	0.3	3
164	Mid- and Low-back Injuries. , 2007, , 375-389.		2
165	(ii) The role of surgery in low back pain. Orthopaedics and Trauma, 2007, 21, 9-16.	0.3	5
166	The Role of Discography in the Evaluation of Degenerative Disc Disease. Seminars in Spine Surgery, 2007, 19, 72-77.	0.1	1
167	Prospective evaluation of contrast-enhanced MR imaging after uncomplicated lumbar discography. Skeletal Radiology, 2007, 36, 293-299.	1.2	8
168	A survey of the "medical―articles in the European Spine Journal, 2006. European Spine Journal, 2007, 16, 3-9.	1.0	6
169	Systematic review of tests to identify the disc, SIJ or facet joint as the source of low back pain. European Spine Journal, 2007, 16, 1539-1550.	1.0	310
171	Intervertebral Disc: Anatomyâ€Physiologyâ€Pathophysiologyâ€Treatment. Pain Practice, 2008, 8, 18-44.	0.9	532
172	Lumbar Disc Replacement: Where Are We in 2007?. Seminars in Spine Surgery, 2008, 20, 132-145.	0.1	0
173	Evidence-informed management of chronic low back pain with epidural steroid injections. Spine Journal, 2008, 8, 45-55.	0.6	57

#	Article	IF	CITATIONS
174	A brief overview of evidence-informed management of chronic low back pain with surgery. Spine Journal, 2008, 8, 258-265.	0.6	50
175	Postdiskogram CT Features of Lidocaine-Sensitive and Lidocaine-Insensitive Severely Painful Disks at Provocation Lumbar Diskography. American Journal of Neuroradiology, 2008, 29, 1455-1460.	1.2	13
176	ISSLS Prize Winner: Microstructure and Mechanical Disruption of the Lumbar Disc Annulus. Spine, 2008, 33, 2711-2720.	1.0	85
177	Puncture of a Lumbar Intervertebral Disc Induces Changes in Spontaneous Pain Behavior. Spine, 2008, 33, 850-855.	1.0	67
178	Painful Disc Lesion: Can Modern Biplanar Magnetic Resonance Imaging Replace Discography?. Journal of Spinal Disorders and Techniques, 2008, 21, 430-435.	1.8	27
179	Assessment and Palpation: Accuracy and Reliability Issues. , 2008, , 101-123.		0
180	DIAGNOSIS AND MINIMALLY INVASIVE TREATMENT OF LUMBAR DISCOGENIC PAIN. , 2009, , 620-626.		1
181	Clinical diagnosis for discogenic low back pain. International Journal of Biological Sciences, 2009, 5, 647-658.	2.6	96
182	Agreement in the interpretation of magnetic resonance images of the lumbar spine. Acta Radiologica, 2009, 50, 497-506.	0.5	35
183	Lumbar Spine: Reliability of MR Imaging Findings. Radiology, 2009, 250, 161-170.	3.6	168
184	Modic Changes on MR Images as Studied with Provocative Diskography: Clinical Relevance—A Retrospective Study of 2457 Disks. Radiology, 2009, 250, 849-855.	3.6	117
185	Association between Annular Tears and Disk Degeneration: A Longitudinal Study. American Journal of Neuroradiology, 2009, 30, 500-506.	1.2	62
186	Cross-sectional magnetic resonance imaging study of lumbar disc degeneration in 200 healthy individuals. Journal of Neurosurgery: Spine, 2009, 11, 501-507.	0.9	114
187	Clinics in neurology and neurosurgery of sport: lumbar spine. Sequestrated disc prolapse and disc bulge. British Journal of Sports Medicine, 2009, 43, 796-801.	3.1	0
188	Analysis of the relationship between morphology of intervertebral disc and some correlated factors following discography in patients with chronic low back pain. Orthopaedic Surgery, 2009, 1, 47-51.	0.7	6
189	Can magnetic resonance imaging accurately predict concordant pain provocation during provocative disc injection?. Skeletal Radiology, 2009, 38, 877-885.	1.2	63
190	Behavioral Models of Pain States Evoked by Physical Injury to the Peripheral Nerve. Neurotherapeutics, 2009, 6, 609-619.	2.1	41
191	Degenerative Disorders of the Spine. , 2009, , 134-145.		0

#	Article	IF	CITATIONS
192	Intradiscal electrothermal therapy (IDET) for the treatment of discogenic pain. Techniques in Regional Anesthesia and Pain Management, 2009, 13, 102-108.	0.2	3
193	Lumbar discography: Diagnostic role in discogenic pain. Techniques in Regional Anesthesia and Pain Management, 2009, 13, 85-92.	0.2	2
194	Interventional Assessment of the Lumbar Disk: Provocation Lumbar Diskography and Functional Anesthetic Diskography. Techniques in Vascular and Interventional Radiology, 2009, 12, 33-43.	0.4	3
195	Lumbar Discography. Radiologic Clinics of North America, 2009, 47, 421-433.	0.9	23
196	Adjacent Segment Disease After Instrumented Fusion for Idiopathic Scoliosis. Journal of Spinal Disorders and Techniques, 2009, 22, 530-539.	1.8	45
197	2009 ISSLS Prize Winner: Does Discography Cause Accelerated Progression of Degeneration Changes in the Lumbar Disc. Spine, 2009, 34, 2338-2345.	1.0	411
198	Prevalence of Degenerative Imaging Findings in Lumbar Magnetic Resonance Imaging Among Young Adults. Spine, 2009, 34, 1716-1721.	1.0	141
199	Prevalence and Pattern of Lumbar Magnetic Resonance Imaging Changes in a Population Study of One Thousand Forty-Three Individuals. Spine, 2009, 34, 934-940.	1.0	682
200	Correlation of Low Back Pain to a High-Intensity Zone of the Lumbar Disc in Indian Patients. Journal of Orthopaedic Surgery, 2009, 17, 190-193.	0.4	11
201	Lumbar Anular Repair for Degenerative Disc Disease. Contemporary Spine Surgery, 2010, 11, 1-5.	0.2	3
202	Lumbar intervertebral disc abnormalities: comparison of quantitative T2 mapping with conventional MR at 3.0ÂT. European Radiology, 2010, 20, 2715-2722.	2.3	81
203	The influence of torsion on disc herniation when combined with flexion. European Spine Journal, 2010, 19, 1468-1478.	1.0	93
204	Percutaneous endoscopic laser annuloplasty for discogenic low back pain. World Neurosurgery, 2010, 73, 198-206.	0.7	44
205	The Role of Central Hypersensitivity in the Determination of Intradiscal Mechanical Hyperalgesia in Discogenic Pain. Pain Medicine, 2010, 11, 701-708.	0.9	14
206	Analgesic Discography: Effect of Adding a Local Anesthetic to Routine Lumbar Provocation Discography. Pain Medicine, 2010, 11, 1335-1342.	0.9	20
207	Don't You Call Me Desiccated, J. Wellington Wimpy. American Journal of Neuroradiology, 2010, 31, 1551-1551.	1.2	1
208	Effect of Glucosamine on Pain-Related Disability in Patients With Chronic Low Back Pain and Degenerative Lumbar Osteoarthritis. JAMA - Journal of the American Medical Association, 2010, 304, 45.	3.8	63
209	Are high-intensity zones and Modic changes mutually exclusive in symptomatic lumbar degenerative discs?. Journal of Neurosurgery: Spine, 2010, 12, 351-356.	0.9	6

#	Article	IF	CITATIONS
210	Therapeutic Trial of Fluoroscopic Interlaminar Epidural Steroid Injection for Axial Low Back Pain: Effectiveness and Outcome Predictors. American Journal of Neuroradiology, 2010, 31, 1817-1823.	1.2	21
211	Intradiscal electrothermal therapy for symptomatic internal disc disruption: 24-month results and predictors of clinical success. Journal of Neurosurgery: Spine, 2010, 12, 320-326.	0.9	23
212	Imaging the Back Pain Patient. Physical Medicine and Rehabilitation Clinics of North America, 2010, 21, 725-766.	0.7	66
213	Minimally Invasive Dynamic Stabilization of the Degenerated Lumbar Spine. Neuroimaging Clinics of North America, 2010, 20, 229-241.	0.5	3
214	Morphological change and development of high-intensity zones in the lumbar spine from neutral to extension positioning during upright MRI. Clinical Radiology, 2010, 65, 176-180.	0.5	15
215	The Impact of Placebo, Psychopathology, and Expectations on the Response to Acupuncture Needling in Patients With Chronic Low Back Pain. Journal of Pain, 2010, 11, 555-563.	0.7	58
216	Imaging Diagnosis of the Degenerative Spine. , 2010, , 58-110.		0
217	On total disc replacement. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 82, 1-29.	1.2	6
218	Anatomy, imaging, and common pain-generating degenerative pathologies of the spine., 2011,, 53-82.		3
219	Imaging for Chronic Spinal Pain., 2011,, 521-547.		0
220	Commentary: Standardization of dynamic lumbar imaging and diagnostic criteria for discogenic low back pain. Spine Journal, 2011, 11, 999-1001.	0.6	5
221	Neural Correlates of Chronic Low Back Pain Measured by Arterial Spin Labeling. Anesthesiology, 2011, 115, 364-374.	1.3	108
222	Discogenic Pain, Internal Disc Disruption, and Radicular Pain., 2011,, 441-459.		0
223	Does Lumbar Disc Degeneration on Magnetic Resonance Imaging Associate With Low Back Symptom Severity in Young Finnish Adults?. Spine, 2011, 36, 2180-2189.	1.0	178
224	Potential of Magnetic Resonance Imaging Findings to Refine Case Definition for Mechanical Low Back Pain in Epidemiological Studies. Spine, 2011, 36, 160-169.	1.0	153
225	Pharmacological Inhibition of Tumor Necrosis Factor May Reduce Pain Behavior Changes Induced by Experimental Disc Puncture in the Rat. Spine, 2011, 36, E232-E236.	1.0	26
226	Correlation Between MR Imaging and Discography With Provocative Concordant Pain in Patients With Low Back Pain. Clinical Journal of Pain, 2011, 27, 125-130.	0.8	44
227	The "Dehydrated―Lumbar Intervertebral Disk on MR, its Anatomy, Biochemistry and Biomechanics. Neuroradiology Journal, 2011, 24, 564-569.	0.6	2

#	Article	IF	CITATIONS
228	The Expression of Tumor Necrosis Factor- \hat{l}_{\pm} and CD68 in High-Intensity Zone of Lumbar Intervertebral Disc on Magnetic Resonance Image in the Patients With Low Back Pain. Spine, 2011, 36, E429-E433.	1.0	43
229	Comparison of Pressure-Controlled Provocation Discography Using Automated Versus Manual Syringe Pump Manometry in Patients with Chronic Low Back Pain. Pain Medicine, 2011, 12, 18-26.	0.9	23
230	Clinical presentation of low back pain and association with risk factors according to findings on magnetic resonance imaging. Pain, 2011, 152, 1659-1665.	2.0	21
231	The "dehydrated―lumbar intervertebral disk on MR, its anatomy, biochemistry and biomechanics. Neuroradiology, 2011, 53, 191-194.	1.1	5
233	A review of lumbar spinal instrumentation: evidence and controversy. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 948-951.	0.9	16
234	Inter- and Intraobserver Reliability in Radiographic Assessment of Degenerative Disk Disease. Orthopedics, 2011, 34, .	0.5	9
235	Surgery with disc prosthesis versus rehabilitation in patients with low back pain and degenerative disc: two year follow-up of randomised study. BMJ: British Medical Journal, 2011, 342, d2786-d2786.	2.4	98
236	Unusual cause of acute low-back pain: sudden annulus fibrosus rupture. Orthopedic Reviews, 2012, 4, e22.	0.3	2
237	SF-6D Values Stratified by Specific Diagnostic Indication. Spine, 2012, 37, E804-E808.	1.0	18
238	Association of Modic Changes, Schmorl \hat{E}^1 /4s Nodes, Spondylolytic Defects, High-Intensity Zone Lesions, Disc Herniations, and Radial Tears With Low Back Symptom Severity Among Young Finnish Adults. Spine, 2012, 37, 1231-1239.	1.0	67
239	Adjacent Level Degeneration and Facet Arthropathy After Disc Prosthesis Surgery or Rehabilitation in Patients With Chronic Low Back Pain and Degenerative Disc. Spine, 2012, 37, 2063-2073.	1.0	19
240	Peripheral Disc Margin Shape and Internal Disc Derangement: Imaging Correlation in Significantly Painful Discs Identified at Provocation Lumbar Discography. Interventional Neuroradiology, 2012, 18, 227-241.	0.7	9
241	Degenerative Joint Disease of the Spine. Radiologic Clinics of North America, 2012, 50, 613-628.	0.9	62
242	Intervertebral disc degeneration: evidence for two distinct phenotypes. Journal of Anatomy, 2012, 221, 497-506.	0.9	197
243	The influence of preoperative MRI findings on lumbar fusion clinical outcomes. European Spine Journal, 2012, 21, 1616-1623.	1.0	27
244	Do presence and location of annular tear influence clinical outcome after lumbar total disc arthroplasty? A prospective 1-year follow-up study. International Journal of Spine Surgery, 2012, 6, 13-17.	0.7	6
245	Imaging the Intervertebral Disk. Radiologic Clinics of North America, 2012, 50, 629-649.	0.9	27
246	MRI signal distribution within the intervertebral disc as a biomarker of adolescent idiopathic scoliosis and spondylolisthesis. BMC Musculoskeletal Disorders, 2012, 13, 239.	0.8	27

#	Article	IF	CITATIONS
247	No effect of 6-month intake of glucosamine sulfate on Modic changes or high intensity zones in the lumbar spine: sub-group analysis of a randomized controlled trial. Journal of Negative Results in BioMedicine, 2012, 11, 13.	1.4	10
248	The Young Adult Spine in Sports. Clinics in Sports Medicine, 2012, 31, 453-472.	0.9	14
249	Reliability of change in lumbar MRI findings over time in patients with and without disc prosthesisâ€"comparing two different image evaluation methods. Skeletal Radiology, 2012, 41, 1547-1557.	1.2	11
252	Epidural Steroid Injections., 2012,, 311-328.		0
253	Intradiscal Thermal Therapies. , 2012, , 364-388.		0
254	Spinal Fusion in the Treatment of Chronic Low Back Pain: Rationale for Improvement. The Open Orthopaedics Journal, 2012, 6, 478-481.	0.1	8
255	Lumbar Diskogenic Pain, Provocation Diskography, and Imaging Correlates. Radiologic Clinics of North America, 2012, 50, 681-704.	0.9	24
256	Reliability of MRI findings in candidates for lumbar disc prosthesis. Neuroradiology, 2012, 54, 699-707.	1.1	20
257	Predictors of outcome after surgery with disc prosthesis and rehabilitation in patients with chronic low back pain and degenerative disc: 2-year follow-up. European Spine Journal, 2012, 21, 681-690.	1.0	29
258	High-intensity zone (HIZ) of lumbar intervertebral disc on T2-weighted magnetic resonance images: spatial distribution, and correlation of distribution with low back pain (LBP). European Spine Journal, 2012, 21, 1311-1315.	1.0	25
259	Is Spinal Cord Stimulation an Effective Treatment Option for Discogenic Pain?. Pain Practice, 2012, 12, 194-201.	0.9	13
260	MRI findings are more common in selected patients with acute low back pain than controls?. European Spine Journal, 2012, 21, 240-246.	1.0	43
261	HIZ's relation to axial load and low back pain: investigated with axial loaded MRI and pressure controlled discography. European Spine Journal, 2013, 22, 734-739.	1.0	20
263	Clinically important deterioration in patients undergoing lumbar spine surgery: a choice of evaluation methods using the Oswestry Disability Index, 36-Item Short Form Health Survey, and pain scales. Journal of Neurosurgery: Spine, 2013, 19, 564-568.	0.9	30
264	Percutaneous therapy versus surgery in chronic back pain: how important is imaging in decision-making?. Imaging in Medicine, 2013, 5, 187-196.	0.0	6
265	Are Facet Joint Bone Marrow Lesions and Other Facet Joint Features Associated With Low Back Pain? A Pilot Study. PM and R, 2013, 5, 194-200.	0.9	21
266	Interventional Neuroradiology of the Spine. , 2013, , .		1
267	Adults and Children with Low Back Pain in Primary Care Setting: Evidence-Based Neuroimaging. , 2013, , 473-497.		0

#	Article	IF	CITATIONS
268	Lumbar Discogenic Pain: State-of-the-Art Review. Pain Medicine, 2013, 14, 813-836.	0.9	119
269	Decision Making in Surgical Treatment of Chronic Low Back Pain: The performance of prognostic tests to select patients for lumbar spinal fusion. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 84, 1-37.	1.2	55
270	Do more MRI findings imply worse disability or more intense low back pain? A cross-sectional study of candidates for lumbar disc prosthesis. Skeletal Radiology, 2013, 42, 1593-1602.	1.2	39
271	Differentiating minimum clinically important difference for primary and revision lumbar fusion surgeries. Journal of Neurosurgery: Spine, 2013, 18, 102-106.	0.9	65
272	Prognostic Factors of Prolonged Disability in Patients With Chronic Low Back Pain and Lumbar Degeneration in Primary Care. Spine, 2013, 38, 65-74.	1.0	45
273	Prevalence of Disc Degeneration in Asymptomatic Korean Subjects. Part 1: Lumbar Spine. Journal of Korean Neurosurgical Society, 2013, 53, 31.	0.5	34
274	Prevalence of Disc Degeneration in Asymptomatic Korean Subjects. Part 3 : Cervical and Lumbar Relationship. Journal of Korean Neurosurgical Society, 2013, 53, 167.	0.5	6
275	Discoscopic Findings of High Signal Intensity Zones on Magnetic Resonance Imaging of Lumbar Intervertebral Discs. Case Reports in Orthopedics, 2014, 2014, 1-5.	0.1	9
276	Provocative diskography: safety and predictive value in the outcome of spinal fusion or pain intervention for chronic low-back pain. Journal of Pain Research, 2014, 7, 699.	0.8	9
277	Anatomic Surgical Management of Chronic Low Back Pain. Neuromodulation, 2014, 17, 46-51.	0.4	8
278	Comparison between pain at discography and morphological disc changes at axial loaded MRI in patients with low back pain. European Spine Journal, 2014, 23, 2075-2082.	1.0	12
279	Phenotype Matters. Clinical Journal of Pain, 2014, 30, 839-845.	0.8	20
280	A Statistical Model for Intervertebral Disc Degeneration: Determination of the Optimal T2 Cut-Off Values. Clinical Neuroradiology, 2014, 24, 355-363.	1.0	6
281	Radiologic Assessment of the Patient with Spine Pain. , 2014, , 185-242.e5.		2
282	Sensitivity of MRI signal distribution within the intervertebral disc to image segmentation and data normalisation. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1383-1390.	0.9	4
283	The lumbar high-intensity zone: 20 years on. Clinical Radiology, 2014, 69, 551-558.	0.5	21
284	Quantitative estimation of the high-intensity zone in the lumbar spine: comparison between the symptomatic and asymptomatic population. Spine Journal, 2014, 14, 391-396.	0.6	26
285	Lumbar Discogenic Pain and Diskography. , 2014, , 885-914.e5.		1

#	Article	IF	CITATIONS
286	Imaging of degenerative lumbar intervertebral discs; linking anatomy, pathology and imaging. Postgraduate Medical Journal, 2014, 90, 511-519.	0.9	19
287	MRI findings in the lumbar spines of asymptomatic elite junior tennis players. Skeletal Radiology, 2014, 43, 925-932.	1.2	50
288	Discogenic Low Back Pain. Physical Medicine and Rehabilitation Clinics of North America, 2014, 25, 305-317.	0.7	84
289	Innervation of pathologies in the lumbar vertebral end plate and intervertebral disc. Spine Journal, 2014, 14, 513-521.	0.6	136
290	General Characteristics of the Spine. , 2014, , 15-64.		4
291	Single Intradiscal Administration of the Tumor Necrosis Factor-Alpha Inhibitor, Etanercept, for Patients with Discogenic Low Back Pain. Pain Medicine, 2015, 17, n/a-n/a.	0.9	44
292	Effect of Lumbar Disc Degeneration and Low-Back Pain on the Lumbar Lordosis in Supine and Standing. Spine, 2015, 40, 1690-1696.	1.0	26
293	Psychiatric Comorbidity Is Associated Prospectively with Diminished Opioid Analgesia and Increased Opioid Misuse in Patients with Chronic Low Back Pain. Anesthesiology, 2015, 123, 861-872.	1.3	110
294	Disc extrusions and bulges in nonspecific low back pain and sciatica: Exploratory randomised controlled trial comparing yoga therapy and normal medical treatment. Journal of Back and Musculoskeletal Rehabilitation, 2015, 28, 383-392.	0.4	16
295	Intradiscal Platelet-Rich Plasma Injection for Chronic Discogenic Low Back Pain: Preliminary Results from a Prospective Trial. Pain Medicine, 2016, 17, pnv053.	0.9	85
296	Arthritis of the Spine. Lecture Notes in Computational Vision and Biomechanics, 2015, , 31-66.	0.5	1
297	A novel classification system of lumbar disc degeneration. Journal of Clinical Neuroscience, 2015, 22, 346-351.	0.8	19
298	Diagnóstico por imagen de la patologÃa lumbar degenerativa. EMC - Aparato Locomotor, 2015, 48, 1-13.	0.1	0
299	Risk factors for a recurrence of low back pain. Spine Journal, 2015, 15, 2360-2368.	0.6	55
300	The Top 100 Classic Papers in Lumbar Spine Surgery. Spine, 2015, 40, 740-747.	1.0	43
301	Does evaluator experience have an impact on the diagnosis of lumbar spine instability in dynamic MRI? Interobserver agreement study. Neuroradiology Journal, 2015, 28, 341-346.	0.6	29
302	Novel diagnostic and prognostic methods for disc degeneration and low back pain. Spine Journal, 2015, 15, 1919-1932.	0.6	62
303	Intervertebral disc "dysgeneration― Spine Journal, 2015, 15, 1915-1918.	0.6	18

#	Article	IF	CITATIONS
304	Minimally-invasive posterior lumbar stabilization for degenerative low back pain and sciatica. A review. European Journal of Radiology, 2015, 84, 789-798.	1.2	15
305	A review of the value of MRI signs in low back pain. Diagnostic and Interventional Imaging, 2015, 96, 239-249.	1.8	46
306	Valeur des signes IRM dans le cadre de la lombalgie commune (revue). Diagnostic and Interventional Imaging, 2015, 96, S11-S21.	0.0	0
307	Deep Spatial Discrimination in the Lumbar Spine. Journal of Neurology and Neuroscience, 2016, 07, .	0.4	2
308	Spinal Pathology. , 2016, , 561-583.		0
309	The relationship between findings on magnetic resonance imaging and previous history of low back pain. Journal of Pain Research, 2017, Volume 10, 47-52.	0.8	11
310	Nucleoplasty for treating lumbar disk degenerative low back pain: an outcome prediction analysis. Journal of Pain Research, 2016, Volume 9, 893-898.	0.8	12
311	Clinical Significance of High-intensity Zone for Discogenic Low Back Pain: A Review. Journal of Medical Investigation, 2016, 63, 1-7.	0.2	32
312	Influences of Nutrition Supply and Pathways on the Degenerative Patterns in Human Intervertebral Disc. Spine, 2016, 41, 568-576.	1.0	41
313	The degenerative spine. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2016, 136, 787-808.	1.0	8
314	Targeting the annulus fibrosus of the intervertebral disc: Col1a2-Cre(ER)T mice show specific activity of Cre recombinase in the outer annulus fibrosus. Journal of Cell Communication and Signaling, 2016, 10, 137-142.	1.8	13
315	Do number of days with low back pain and patterns of episodes of pain have similar outcomes in a biopsychosocial prediction model?. European Spine Journal, 2016, 25, 2774-2787.	1.0	1
316	State-of-the-art management of low back pain in athletes: Instructional lecture. Journal of Orthopaedic Science, 2016, 21, 263-272.	0.5	25
317	The prevalence of degenerative or incidental findings in the lumbar spine of pediatric patients: a study using magnetic resonance imaging as a screening tool. European Spine Journal, 2016, 25, 596-601.	1.0	22
318	Lumbar Degenerative Disk Disease: Workup and Conservative Treatment. , 2016, , 203-218.		0
319	Diskography. , 2016, , 109-135.		0
320	Prevalence of degenerative changes of the spine on magnetic resonance images and radiographs in patients aged 16–45 years with chronic back pain of short duration in the Spondyloarthritis Caught Early (SPACE) cohort. Rheumatology, 2016, 55, 56-65.	0.9	45
321	Simulation of water content distributions in degenerated human intervertebral discs. Journal of Orthopaedic Research, 2017, 35, 147-153.	1.2	11

#	Article	IF	CITATIONS
322	Does the high-intensity zone (HIZ) of lumbar Intervertebral discs always represent an annular fissure?. European Radiology, 2017, 27, 1267-1276.	2.3	21
323	Symptoms and signs possibly indicating segmental, discogenic pain. A fusion study with 18 years of follow-up. Scandinavian Journal of Pain, 2017, 16, 213-220.	0.5	8
324	The correlation between the high-intensity zone on a T2-weighted MRI and positive outcomes of discography: a meta-analysis. Journal of Orthopaedic Surgery and Research, 2017, 12, 26.	0.9	10
325	Is the Number of Different MRI Findings More Strongly Associated With Low Back Pain Than Single MRI Findings?. Spine, 2017, 42, 1283-1288.	1.0	12
326	Fat in the lumbar multifidus muscles - predictive value and change following disc prosthesis surgery and multidisciplinary rehabilitation in patients with chronic low back pain and degenerative disc: 2-year follow-up of a randomized trial. BMC Musculoskeletal Disorders, 2017, 18, 145.	0.8	44
327	The Kinematics and Spondylosis of the Lumbar Spine Vary Depending on the Levels of Motion Segments in Individuals With Low Back Pain. Spine, 2017, 42, E767-E774.	1.0	12
328	Posterolateral Disc Prolapse in Flexion Initiated by Lateral Inner Annular Failure. Spine, 2017, 42, 1604-1613.	1.0	34
329	Prospective Comparison of Changes in Lumbar Spine MRI Findings over Time between Individuals with Acute Low Back Pain and Controls: An Exploratory Study. American Journal of Neuroradiology, 2017, 38, 1826-1832.	1.2	15
330	Correlation between high-intensity zone on MRI and discography in patients with low back pain. Medicine (United States), 2017, 96, e7222.	0.4	16
331	Is the Site of Back Pain Related to the Location of Magnetic Resonance Imaging Lesions in Patients With Chronic Back Pain? Results From the Spondyloarthritis Caught Early Cohort. Arthritis Care and Research, 2017, 69, 717-723.	1.5	20
332	Factors for Predicting Favorable Outcome of Percutaneous Epidural Adhesiolysis for Lumbar Disc Herniation. Pain Research and Management, 2017, 2017, 1-10.	0.7	10
333	The associations between magnetic resonance imaging findings and low back pain: A 10-year longitudinal analysis. PLoS ONE, 2017, 12, e0188057.	1.1	40
334	High intensity zone in lumbar spine and its correlation with disc degeneration. Journal of Medical Investigation, 2017, 64, 39-42.	0.2	8
335	Tidemark Avulsions are a Predominant Form of Endplate Irregularity. Spine, 2018, 43, 1095-1101.	1.0	14
337	Diagnostic Benefits of Axial-Loaded Magnetic Resonance Imaging Over Recumbent Magnetic Resonance Imaging in Obese Lower Back Pain Patients. Spine, 2018, 43, 1146-1153.	1.0	8
339	Is a History of Severe Episodic Low Back Pain an Indicator of a Discogenic Etiology?. Pain Medicine, 2018, 19, 1334-1339.	0.9	6
340	MRI histogram analysis enables objective and continuous classification of intervertebral disc degeneration. European Spine Journal, 2018, 27, 1042-1048.	1.0	21
341	Is the location of the signal intensity weighted centroid a reliable measurement of fluid displacement within the disc?. Biomedizinische Technik, 2018, 63, 453-460.	0.9	12

#	Article	IF	CITATIONS
342	Magnetic Resonance Imaging Undetectable Epiduroscopic Hotspot in Chronic Diskogenic Back Pain—Does Sinuvertebral Neuropathy Actually Exist?. World Neurosurgery, 2018, 110, 354-358.	0.7	7
343	Lumbar total disc replacement: predictors for long-term outcome. European Spine Journal, 2018, 27, 709-718.	1.0	18
344	Does an Annular Puncture Influence the Herniation Path?. Spine, 2018, 43, 467-476.	1.0	12
345	Reliability of standing weight-bearing (0.25T) MR imaging findings and positional changes in the lumbar spine. Skeletal Radiology, 2018, 47, 25-35.	1.2	13
346	The UTE Disc Sign on MRI. Spine, 2018, 43, 503-511.	1.0	24
347	Treatment of Low Back Pain by Treating the Annular High Intensity Zone (HIZ) Lesions Using Percutaneous Transforaminal Endoscopic Disc Surgery. International Journal of Spine Surgery, 2018, 12, 388-392.	0.7	5
348	Factors associated with lumbar disc high-intensity zone (HIZ) on T2-weighted magnetic resonance image: a retrospective study of 3185 discs in 637 patients. Journal of Orthopaedic Surgery and Research, 2018, 13, 307.	0.9	13
349	Prevalence of High-Intensity Zones in the Lumbar Spine According to Age and Their Correlation with Other Degenerative Findings on Magnetic Resonance Imaging. Spine Surgery and Related Research, 2018, 2, 299-303.	0.4	4
350	Axial loading during MRI reveals deviant characteristics within posterior IVD regions between low back pain patients and controls. European Spine Journal, 2018, 27, 2840-2846.	1.0	14
351	Anatomy, Imaging, and Common Pain-Generating Degenerative Pathologies of the Spine., 2018,, 69-98.e2.		1
352	The association of high-intensity zones on MRI and low back pain: a systematic review. Scoliosis and Spinal Disorders, 2018, 13, 22.	2.3	28
354	Adjacent Disc Degeneration After Lumbar Total Disc Replacement or Nonoperative Treatment. Spine, 2018, 43, 1695-1703.	1.0	13
355	Prevalence of degenerative changes and overlap with spondyloarthritis-associated lesions in the spine of patients from the DESIR cohort. RMD Open, 2018, 4, e000657.	1.8	28
356	Effect of cartilaginous endplates on extruded disc resorption in lumbar disc herniation. PLoS ONE, 2018, 13, e0195946.	1.1	17
357	Outcome Predictors of the Transforaminal Endoscopic Spine System Technique for Single-level Lumbar Disk Herniation. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2018, 79, 285-290.	0.4	7
358	Are radioâ€contrast agents commonly used in discography toxic to the intact intervertebral disc tissue cells?. Basic and Clinical Pharmacology and Toxicology, 2019, 124, 181-189.	1.2	8
359	Differences in IVD characteristics between low back pain patients and controls associated with HIZ as revealed with quantitative MRI. PLoS ONE, 2019, 14, e0220952.	1.1	17
360	Degenerative Disorders of the Spine. , 2019, , 1873-1918.		0

#	Article	IF	CITATIONS
361	Accurate diagnosis of low back pain in adult elite athletes. Journal of Medical Investigation, 2019, 66, 252-257.	0.2	10
362	Thermal Annuloplasty Using Percutaneous Endoscopic Discectomy for Elite Athletes with Discogenic Low Back Pain. Neurologia Medico-Chirurgica, 2019, 59, 48-53.	1.0	16
363	Virtual Noncalcium Dual-Energy CT: Could It Serve as an Alternative to MRI?. Radiology, 2019, 292, 268-269.	3.6	0
364	Degenerative Disorders of the Spine. , 2019, , 1-47.		0
365	Low Back Pain in Adolescent Athletes: Comparison of Diagnoses Made by General Orthopedic Surgeons and Spine Surgeons. International Journal of Spine Surgery, 2019, 13, 178-185.	0.7	6
366	High Prevalence of Spinal Magnetic Resonance Imaging Findings in Asymptomatic Young Adults (18–22) Tj ETo	Qq1.d 0.7	84314 rgBT
367	Low Back Pain, a Comprehensive Review: Pathophysiology, Diagnosis, and Treatment. Current Pain and Headache Reports, 2019, 23, 23.	1.3	284
368	The Association Between Preoperative MRI Findings and Surgical Revision Within Three Years After Surgery for Lumbar Disc Herniation. Spine, 2019, 44, 818-825.	1.0	10
369	Discogenic Back Pain: Literature Review of Definition, Diagnosis, and Treatment. JBMR Plus, 2019, 3, e10180.	1.3	114
370	Low-Pressure Lumbar Provocation Discography According to Spine Intervention Society/International Association for the Study of Pain Standards Does Not Cause Acceleration of Disc Degeneration in Patients With Symptomatic Low Back Pain. Spine, 2019, 44, E1161-E1168.	1.0	12
371	A multicenter randomized controlled trial on the efficacy of intradiscal methylene blue injection for chronic discogenic low back pain: the IMBI study. Pain, 2019, 160, 945-953.	2.0	37
372	The relevance of high-intensity zones in degenerative disc disease. International Orthopaedics, 2019, 43, 861-867.	0.9	19
373	Five-year development of lumbar disc degenerationâ€"a prospective study. Skeletal Radiology, 2019, 48, 871-879.	1.2	7
374	Preoperative MRI predictors of health-related quality of life improvement after microscopic lumbar discectomy. Spine Journal, 2020, 20, 391-398.	0.6	5
375	Chemical Radiculitis Induced by an Annular Tear Detected by Gadoliniumâ€Enhanced, but Not in Unenhanced, Magnetic Resonance Imaging. Pain Practice, 2020, 20, 112-113.	0.9	2
376	Pathophysiologic Approach to Pain Therapy for Complex Pain Entities: A Narrative Review. Pain and Therapy, 2020, 9, 7-21.	1.5	17
377	ISSLS PRIZE IN BASIC SCIENCE 2020: Beyond microstructureâ€"circumferential specialization within the lumbar intervertebral disc annulus extends to collagen nanostructure, with counterintuitive relationships to macroscale material properties. European Spine Journal, 2020, 29, 670-685.	1.0	2
378	Back Injuries. Primary Care - Clinics in Office Practice, 2020, 47, 147-164.	0.7	1

#	Article	IF	CITATIONS
379	The Relationship between Diabetes Mellitus Type II and Intervertebral Disc Degeneration in Diabetic Rodent Models: A Systematic and Comprehensive Review. Cells, 2020, 9, 2208.	1.8	24
380	High-Intensity Zones on MRI of the Cervical Spine in Patients: Epidemiology and Association With Pain and Disability. Global Spine Journal, 2020, , 219256822096632.	1.2	1
381	Anterior High-Intensity Zone in Lumbar Discs: Prevalence and Association with Low Back Pain. Pain Medicine, 2020, 21, 2111-2116.	0.9	5
382	Neurosurgical Evaluation for Patients with Chronic Lower Back Pain. Current Pain and Headache Reports, 2020, 24, 58.	1.3	1
383	<p>Are Opioids Needed to Treat Chronic Low Back Pain? A Review of Treatment Options and Analgesics in Development</p> . Journal of Pain Research, 2020, Volume 13, 1007-1022.	0.8	10
384	Imaging in Spine Surgery: Current Concepts and Future Directions. Spine Surgery and Related Research, 2020, 4, 99-110.	0.4	31
385	Lumbar high-intensity zones on MRI: imaging biomarkers for severe, prolonged low back pain and sciatica in a population-based cohort. Spine Journal, 2020, 20, 1025-1034.	0.6	26
386	Magnetic resonance imaging findings of the lumbar spine, back symptoms and physical function among male adult patients with Scheuermann's disease. Journal of Orthopaedics, 2020, 21, 69-74.	0.6	3
387	Abnormal Conditions of the Diskovertebral Segment: MRI With Anatomic-Pathologic Correlation. American Journal of Roentgenology, 2020, 214, 853-861.	1.0	6
388	Degenerative findings in lumbar spine MRI: an inter-rater reliability study involving three raters. Chiropractic & Manual Therapies, 2020, 28, 8.	0.6	10
389	Cervical spine MRI phenotypes and prediction of pain, disability and adjacent segment degeneration/disease after ACDF. Journal of Orthopaedic Research, 2021, 39, 657-670.	1.2	13
390	Disc height discrepancy between supine and standing positions as a screening metric for discogenic back pain in patients with disc degeneration. Spine Journal, 2021, 21, 71-79.	0.6	11
391	Allogeneic mesenchymal precursor cells treatment for chronic low back pain associated with degenerative disc disease: a prospective randomized, placebo-controlled 36-month study of safety and efficacy. Spine Journal, 2021, 21, 212-230.	0.6	45
392	Clinical implications of lumbar developmental spinal stenosis on back pain, radicular leg pain, and disability. Bone and Joint Journal, 2021, 103-B, 131-140.	1.9	14
393	Epidemiology of Lumbar Degenerative Phenotypes of Children and Adolescents: A Large-Scale Imaging Study. Global Spine Journal, 2023, 13, 599-608.	1.2	5
394	Expanded Indications of Full Endoscopic Spine Sugery. Journal of Minimally Invasive Spine Surgery and Technique, 2021, 6, S130-S156.	0.2	4
395	Motion Characteristics of the Functional Spinal Unit During Lumbar Disc Injection (Discography) Including Comparison Between Normal and Degenerative Levels. Pain Medicine, 2021, 22, 1735-1742.	0.9	3
396	The profile of the spinal column in subjects with lumbar developmental spinal stenosis. Bone and Joint Journal, 2021, 103-B, 725-733.	1.9	10

#	Article	IF	Citations
397	In Memoriam Dr. Charles N. Aprill, MD. Spine, 2021, 46, E800-E801.	1.0	1
398	Factors Predicting the Clinical Outcome After Trans-sacral Epiduroscopic Laser Decompression for Lumbar Disc Herniation. Neurospine, 2021, 18, 336-343.	1.1	8
399	Development of a standardized histopathology scoring system for human intervertebral disc degeneration: an Orthopaedic Research Society Spine Section Initiative. JOR Spine, 2021, 4, e1167.	1.5	25
400	Quantitative MRI to Characterize the Nucleus Pulposus Morphological and Biomechanical Variation According to Sagittal Bending Load and Radial Fissure, an ex vivo Ovine Specimen Proof-of-Concept Study. Frontiers in Bioengineering and Biotechnology, 2021, 9, 676003.	2.0	3
401	Association of Lumbar MRI Findings with Current and Future Back Pain in a Population-based Cohort Study. Spine, 2022, 47, 201-211.	1.0	30
402	Imaging Analysis of the High-Intensity Zone on Lumbar Spine Magnetic Resonance Images: Classification, Features and Correlation with Low Back Pain. Journal of Pain Research, 2021, Volume 14, 2981-2989.	0.8	6
403	Vertebral Endplate Changes Correlate with Presence of Cartilaginous Endplate in the Herniated Disc Tissue: Factor Predicting Failure of Conservative Treatment. Asian Spine Journal, 2022, 16, 212-220.	0.8	3
404	Intradiscal quantitative chemical exchange saturation transfer MRI signal correlates with discogenic pain in human patients. Scientific Reports, 2021, 11, 19195.	1.6	3
405	Full-endoscopic Spine Surgery for Discogenic Low Back Pain with High-intensity Zones and Modic Type 1 Change in a Professional Baseball Player. NMC Case Report Journal, 2021, 8, 587-593.	0.2	2
406	Spine Degeneration and Inflammation. IDKD Springer Series, 2021, , 197-213.	0.8	5
407	Low Back Disorders. , 2021, , 651-689.e9.		1
408	Laser Regeneration of Spine Discs Cartilage: Mechanism, In-Vivo Study and Clinical Applications. Lecture Notes in Electrical Engineering, 2008, , 259-266.	0.3	7
410	Provocative Discography. Medical Radiology, 2009, , 119-141.	0.0	2
413	Diagnosis and Management of Diskogenic Lower Back Pain. , 2011, , 2789-2795.		2
414	Lumbar Disc Disease. , 2011, , 846-886.		3
415	Provocation Discography. , 2012, , 48-64.		1
416	The Role of Discography in the Evaluation of Patients with Spinal Deformity. Orthopedic Clinics of North America, 1994, 25, 265-273.	0.5	16
417	MR IMAGING OF THE SPINE IN SPORTS INJURIES. Magnetic Resonance Imaging Clinics of North America, 1999, 7, 85-103.	0.6	13

#	Article	IF	CITATIONS
418	Magnetic Resonance Imaging of the Musculoskeletal System: Part 8. The Spine, Section 1. Clinical Orthopaedics and Related Research, 1997, 338, 275-287.	0.7	19
419	Retroperitoneal Endoscopically Assisted Minilaparotomy for Anterior Lumbar Interbody Fusion. Spine, 2001, 26, e1-e6.	1.0	13
420	Classification of High Intensity Zones of the Lumbar Spine and Their Association with Other Spinal MRI Phenotypes: The Wakayama Spine Study. PLoS ONE, 2016, 11, e0160111.	1.1	30
422	The value of radiographic indexes in the diagnosis of discogenic low back pain: a retrospective analysis of imaging results. Oncotarget, 2017, 8, 60558-60567.	0.8	5
423	Current Concepts Review - The Use of Radiographic Imaging Studies in the Evaluation of Patients Who Have Degenerative Disorders of the Lumbar Spine*. Journal of Bone and Joint Surgery - Series A, 1996, 78, 114-24.	1.4	70
424	Provocative discography: current status. Biomedical Imaging and Intervention Journal, 2005, 1, e2.	0.5	17
425	Intra-Annular Granulation Tissue Syndrome: Clinico-Histological Study of High Intensity Zones and the Role of Percutaneous Endoscopic Lumbar Annuloplasty as Therapy with Two Years Follow-up. Medical Lasers, 2014, 3, 75-83.	0.2	1
426	Prevalence of Disc Degeneration in Asymptomatic Korean Subjects. Part 2 : Cervical Spine. Journal of Korean Neurosurgical Society, 2013, 53, 89.	0.5	32
427	Effectiveness of Caudal Epidural Injections in Discogram Positive and Negative Chronic Low Back Pain. Pain Physician, 2002, 1;5, 18-29.	0.3	30
428	Discography as A Diagnostic Test For Spinal Pain: A Systematic and Narrative Review. Pain Physician, 2005, 2;8, 187-209.	0.3	44
429	Interventional Techniques in The Management of Chronic Spinal Pain: Evidence-Based Practice Guidelines. Pain Physician, 2005, 1;8, 1-47.	0.3	163
430	Systematic Review of Discography as a Diagnostic Test for Spinal Pain: An Update. Pain Physician, 2007, 1;10, 147-164.	0.3	76
431	An Update of the Systematic Appraisal of the Accuracy and Utility of Lumbar Discography in Chronic Low Back Pain. Pain Physician, 2013, 2s;16, SE55-SE95.	0.3	49
432	ã,ã,ã,†ã,∢「ãŽã£ãã,Šè…ºã€ã∙æ¤é−"æĮæ€Sç−¼ç→ã•. The Journal of Japanese Society of Lumbar Spine Disorde	erso 2 002,	8,106-114
433	Long Term Clinical Results in Laser Reconstruction of Spine Discs. Journal of Spine, 2015, 04, .	0.2	5
434	High-Intensity Zone on L-spine MRI: Clinical Relevance and Association with Trauma History. Asian Spine Journal, 2007, 1, 38.	0.8	19
435	Radiologic Evaluation of Degeneration in Isthmic and Degenerative Spondylolisthesis. Asian Spine Journal, 2013, 7, 25.	0.8	12
436	Correlation of 1.5 Tesla Magnetic Resonance Imaging with Clinical and Intraoperative Findings for Lumbar Disc Herniation. Asian Spine Journal, 2016 , 10 , 1115 .	0.8	9

#	ARTICLE	IF	CITATIONS
437	Diskography in the Evaluation of Low Back Pain. Journal of the American Academy of Orthopaedic Surgeons, The, 2006, 14, 46-55.	1.1	6
438	Management of Symptomatic Lumbar Degenerative Disk Disease. Journal of the American Academy of Orthopaedic Surgeons, The, 2009, 17, 102-111.	1.1	64
439	Magnetic Resonance Findings of Acute Severe Lower Back Pain. Annals of Rehabilitation Medicine, 2012, 36, 47.	0.6	12
440	The Factors Associated With the Successful Outcomes of Percutaneous Disc Decompression in Patients With Lumbar Herniated Nucleus Pulposus. Annals of Rehabilitation Medicine, 2015, 39, 735.	0.6	4
441	Internal Disc Disruption and Low Back Pain. Pain Physician, 2000, 2;3, 143-157.	0.3	13
442	Precision Diagnostic Disc Injections. Pain Physician, 2000, 3;3, 271-288.	0.3	13
443	An Algorithm for Understanding Spine Imaging. Pain Physician, 2002, 1;5, 102-109.	0.3	3
444	Lumbar discography. Acta Ortopedica Brasileira, 2002, 10, 52-56.	0.2	0
445	Diskography Outcomes in Patients Following Lumbar Diskectomy. Orthopedics, 2003, 26, 777-782.	0.5	0
446	Die lumbale Bandscheibenprothese. , 2004, , 34-40.		0
448	Spinal Instability and Imbalance: Definition, Clinical Manifestations, and Biomechanics. , 2004, , 405-434.		0
449	Availability of Intradiscal Injection of Marcaine as a Pain Relief Test for Diagnosis of Internal Disc Disruption. Journal of Korean Society of Spine Surgery, 2005, 12, 45.	0.3	0
450	Anatomy, Imaging, and Common Pain-Generating Degenerative Pathologies of the Spine., 2005, , 50-79.		1
451	Lumbar Degenerative Disk Disease. , 2005, , 48-56.		0
453	Diskography. , 2007, , 118-144.		0
454	Dolor discógeno. , 2007, , 112-113.		0
455	Degenerative Disc Disease. Medical Radiology, 2007, , 127-156.	0.0	11
456	Lumbar Discography. , 2008, , 1079-1108.		1

#	Article	IF	CITATIONS
458	Intradiscal Steroids and Prolotherapy: Clinical Relevance, Outcomes and Efficacy., 2008, , 1049-1055.		0
459	Opening Round. , 2008, , 1-118.		0
460	The Lumbar Degenerative Disc. , 2008, , 813-826.		O
461	Automated Percutaneous Lumbar Discectomy: Technique. , 2008, , 321-330.		O
462	Lumbar Provocation Discography: Clinical Relevance, Sensitivity, Specificity, and Controversies., 2008, , 1033-1047.		0
463	Maladie discale dégénérative. , 2008, , 143-167.		0
464	Surgical Treatment of Axial Back Pain. , 2008, , 1065-1075.		O
469	20 Imaging of Adults with Low Back Pain in the Primary Care Setting. , 2011, , 335-355.		O
470	Hernie discale lombaire et pratique sportive. , 2011, , 253-259.		0
473	Therapeutische Möglichkeiten – interventionelle und operative Verfahren. , 2011, , 175-324.		O
476	Krankheitsbilder., 2012,, 197-295.		0
480	Intradiscal Annuloplasty for the Treatment of Discogenic Pain. , 2013, , 503-511.		O
481	Provocative Discography., 2013,, 1051-1068.		0
482	Normalized intervertebral disc MRI signal as a biomarker of pain. Journal of Biomedical Science and Engineering, 2013, 06, 372-380.	0.2	3
483	Biomechanics of the Spine and Etiopathogenesis of Spinal Pain. , 2013, , 1-25.		0
484	Percutaneous Lumbar Posterior Stabilization for Low Back Pain. , 2013, , 185-200.		O
486	Radiological Evaluation of Lumbar Instability. IOSR Journal of Dental and Medical Sciences, 2014, 13, 83-87.	0.0	1
487	Applications of Lumbar Spinal Fusion and Disc Replacement. , 2014, , 581-608.		O

#	Article	IF	CITATIONS
488	The Spine. Medical Radiology, 1998, , 267-302.	0.0	0
489	Imaging Studies., 1999,, 211-278.		0
490	Imaging of the Spine. , 2014, , 17-39.		0
494	Lumbar spine disorders. , 2015, , 578-594.		5
495	Reliability and variability in the interpretation of lumbar high intensity zone (HIZ). Acta Orthopaedica Et Traumatologica Turcica, 2015, 49, 606-13.	0.3	4
497	Discogenic Low Back Pain and Radicular Pain: Therapeutic Strategies and Role of Radio-Frequency Techniques. , 2017, , 77-86.		0
498	Spine Degeneration and Inflammation. , 2017, , 215-224.		0
499	Clinical significance of magnetic resonance imaging findings in chronic low backache. Indian Journal of Medical Research, 2017, 145, 796.	0.4	3
500	Degenerative Disc and Discogenic Pain. , 2017, , 439-441.		0
502	Discogenic pain. Medical Alphabet, 2019, 1, 26-32.	0.0	0
504	Radyolojik görüntülerle klinik semptomları uyumlu olmayan lomber disk hernisi hastalarında diskografi uygulaması. Turkish Journal of Clinics and Laboratory, 2019, 10, 197-208.	0.2	0
505	Radiological Evaluation of theÂLumbar Spine. , 2020, , 91-114.		0
509	Full-Endoscopic Thermal Annuloplasty for Athletes. , 2021, , 77-84.		0
510	Genetic risk factors of disc degeneration among 12-14-year-old Danish children: a population study. International Journal of Molecular Epidemiology and Genetics, 2010, 1, 158-65.	0.4	47
511	Gender difference in genetic association between IL1A variant and early lumbar disc degeneration: a three-year follow-up. International Journal of Molecular Epidemiology and Genetics, 2012, 3, 195-204.	0.4	9
512	Low back pain associated with lumbar disc herniation: role of moderately degenerative disc and annulus fibrous tears. International Journal of Clinical and Experimental Medicine, 2015, 8, 1634-44.	1.3	33
514	Intervertebral disk appearance correlated with stiffness of lumbar spinal motion segments. American Journal of Neuroradiology, 1999, 20, 1161-5.	1.2	29
515	Serial MR Imaging of Annular Tears in Lumbar Intervertebral Disks. American Journal of Neuroradiology, 2002, 23, 1105-9.	1.2	30

#	Article	IF	Citations
516	Detailed Subphenotyping of Lumbar Modic Changes and Their Association with Low Back Pain in a Large Population-Based Study: The Wakayama Spine Study. Pain and Therapy, 2022, 11, 57-71.	1.5	12
517	Identification of potentially painful disc fissures in magnetic resonance images using machine-learning modelling. European Spine Journal, $2021,1.$	1.0	6
518	Therapeutic effect of intradiscal pulsed radiofrequency on internal disc disruption. Medicine (United) Tj ETQq0 0	0 rgBT /O	verlock 10 Tf
519	Efficacy Analysis of Percutaneous Endoscopic Spinal Surgery for Young Patients with Discogenic Low Back Pain. Journal of Pain Research, 2022, Volume 15, 665-674.	0.8	1
521	Imaging Evaluation of Intervertebral Disc Degeneration and Painful Discs—Advances and Challenges in Quantitative MRI. Diagnostics, 2022, 12, 707.	1.3	13
523	Serial MRI in the early postoperative period after lumbar discectomy. Neuroradiology, 1995, 37, 177-182.	1.1	2
525	Full-endoscopic Intradiscal Surgery: State of the Art. Journal of Minimally Invasive Spine Surgery and Technique, 2022, 7, 84-89.	0.2	0
526	Reliability of reporting differences in degenerative MRI findings of the lumbar spine from the supine to the upright position. Skeletal Radiology, 2022, , $1.$	1.2	1
527	The value of magnetic resonance imaging and computed tomography in the study of spinal disorders. Quantitative Imaging in Medicine and Surgery, 2022, 12, 3947-3986.	1.1	15
528	Discography: Current concepts and techniques. , 0, , 32-40.		4
529	Indications for Spine Fusion for Axial Pain., 2017,, 508-518.e2.		0
531	Disc space narrowing and osteophytes. , 2022, , 137-154.		0
532	High-intensity zones and annular tears. , 2022, , 187-201.		0
533	The type 2 high intensity zone: Two cases of axial low back pain in the setting of high T1 and high T2 signal in the posterior annulus., 2022, 1, 100131.		0
534	Pre-procedural Imaging., 2023,, 141-154.		0
535	Intra-annular Fibrin Discseel®. , 2023, , 61-71.		1
536	The Analgesic Efficacy of Intradiscal Injection of Bone Marrow Aspirate Concentrate and Culture-Expanded Bone Marrow Mesenchymal Stromal Cells in Discogenic Pain: A Systematic Review. Journal of Pain Research, 0, Volume 15, 3299-3318.	0.8	3
537	Conservative treatments for lumbar disc herniation at L3/4 or L4/5 were more likely to fail when ipsilateral foraminal stenosis is present at the caudally adjacent segment. World Neurosurgery, 2022,	0.7	1

#	ARTICLE	IF	CITATIONS
538	Usefulness of discography, discoblock and a new mechanical method for identifying a painful segment/disc. Neurochirurgie, 2023, 69, 101397.	0.6	0
539	Detection of Imperceptible Intervertebral Disc Fissures in Conventional MRI—An Al Strategy for Improved Diagnostics. Journal of Clinical Medicine, 2023, 12, 11.	1.0	8
540	Predictive Factors for Poor Outcome following Chemonucleolysis with Condoliase in Lumbar Disc Herniation. Medicina (Lithuania), 2022, 58, 1868.	0.8	3
541	Assessment of the correlation between clinical and radiological outcomes in patients suffering from mild to moderate cervical spine dysfunction symptoms: a prospective study. Journal of Orthopaedic Surgery and Research, 2022, 17, .	0.9	0
542	Enhancing Annular Fissures and High-Intensity Zones: Pain, Internal Derangement, and Anesthetic Response at Provocation Lumbar Discography. American Journal of Neuroradiology, 2023, 44, 95-104.	1.2	2
543	T1Ï; T2 and T2* mapping of lumbar intervertebral disc degeneration: a comparison study. BMC Musculoskeletal Disorders, 2022, 23, .	0.8	4
544	Lumbar Disc Disease. Journal of Korean Society of Spine Surgery, 2022, 29, 123.	0.1	1
545	Lumbar endoscopic spine surgery for persistent genital arousal disorder/genitopelvic dysesthesia resulting from lumbosacral annular tear–induced sacral radiculopathy. Journal of Sexual Medicine, 2023, 20, 210-223.	0.3	1
546	Percutaneous Endoscopic Lumbar Annuloplasty and Nucleoplasty for Discogenic Low Back Pain., 2023, , 407-420.		0
547	Retrospective Analysis of Factors Associated with the Treatment Outcomes of Intradiscal Platelet-Rich Plasma-Releasate Injection Therapy for Patients with Discogenic Low Back Pain. Medicina (Lithuania), 2023, 59, 640.	0.8	3
548	Low back pain of disc, sacroiliac joint, or facet joint origin: a diagnostic accuracy systematic review. EClinicalMedicine, 2023, 59, 101960.	3.2	7
549	5-Year progression prediction of endplate defects: Utilizing the EDPP-Flow convolutional neural network based on unbalanced data. Journal of Orthopaedics, 2023, 38, 7-13.	0.6	1
550	Efficacy of intradiscal injection of platelet-rich plasma in the treatment of discogenic low back pain: A single-arm meta-analysis. Medicine (United States), 2023, 102, e33112.	0.4	1
551	Obesity in children with low back pain: implications with imaging phenotypes and opioid use. Spine Journal, 2023, 23, 945-953.	0.6	3
552	Anatomic zone division and clinical significance of the lumbar sinuvertebral nerves. Spine Journal, 2023, 23, 1223-1233.	0.6	1
553	SELD, Trans Sacral Epiduroscopic Lumbar Decompression. , 2023, , 307-317.		0
563	Chronic Neuraxial Spine Pain., 2023,, 95-106.		0