

Ludovico Minati

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145
papers

4,519
citations

39
h-index

61
g-index

157
ext. papers

5,436
ext. citations

4.1
avg. IF

5.75
L-index

#	Paper	IF	Citations
145	Transfer Function-based Characterization of the Honey Bee Olfactory System: from Biology to Electronic Circuits. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
144	Distributed sensing via the ensemble spectra of uncoupled electronic chaotic oscillators. <i>Chaos, Solitons and Fractals</i> , 2022 , 155, 111749	9.3	0
143	TinyCowNet: Memory- and Power-Minimized RNNs Implementable on Tiny Edge Devices for Lifelong Cow Behavior Distribution Estimation. <i>IEEE Access</i> , 2022 , 10, 32706-32727	3.5	1
142	Mechanisms of chaos generation in an atypical single-transistor oscillator. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111878	9.3	0
141	An analog electronic emulator of non-linear dynamics in optical microring resonators. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111410	9.3	0
140	Visual fixation in disorders of consciousness: Development of predictive models to support differential diagnosis. <i>Physiology and Behavior</i> , 2021 , 230, 113310	3.5	1
139	Estimation of Granger causality through Artificial Neural Networks: applications to physiological systems and chaotic electronic oscillators. <i>PeerJ Computer Science</i> , 2021 , 7, e429	2.7	4
138	Multiscale characteristics of the emerging global cryptocurrency market. <i>Physics Reports</i> , 2021 , 901, 1-82	7.7	35
137	Vowel Sound Synthesis from Electroencephalography during Listening and Recalling. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000164	6	0
136	Node differentiation dynamics along the route to synchronization in complex networks. <i>Physical Review E</i> , 2021 , 104, 014303	2.4	0
135	An Information-Theoretic Framework to Measure the Dynamic Interaction Between Neural Spike Trains. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 3471-3481	5	7
134	SpiSeMe: A multi-language package for spike train surrogate generation. <i>Chaos</i> , 2020 , 30, 073120	3.3	2
133	Experimental observations of chimera states in locally and non-locally coupled Stuart-Landau oscillator circuits. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109907	9.3	3
132	A chaotic circuit based on a physical memristor. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109990	9.3	25
131	Competition of noise and collectivity in global cryptocurrency trading: Route to a self-contained market. <i>Chaos</i> , 2020 , 30, 023122	3.3	27
130	Visual behaviors in disorders of consciousness: Disentangling conscious visual processing by a multimodal approach. <i>European Journal of Neuroscience</i> , 2020 , 52, 4345-4355	3.5	3
129	Wavelet-based discrimination of isolated singularities masquerading as multifractals in detrended fluctuation analyses. <i>Nonlinear Dynamics</i> , 2020 , 100, 1689-1704	5	6

128	Distributed Sensing Via Inductively Coupled Single-Transistor Chaotic Oscillators: A New Approach and Its Experimental Proof-of-Concept. <i>IEEE Access</i> , 2020 , 8, 36536-36555	3.5	3
127	Scale-resolved analysis of brain functional connectivity networks with spectral entropy. <i>NeuroImage</i> , 2020 , 211, 116603	7.9	10
126	Generic Rotating-Frame-Based Approach to Chaos Generation in Nonlinear Micro- and Nanoelectromechanical System Resonators. <i>Physical Review Letters</i> , 2020 , 125, 174301	7.4	3
125	Behavioral and physiological correlates of kinetically tracking a chaotic target. <i>PLoS ONE</i> , 2020 , 15, e0239471	3.7	2
124	Age-Related Decline of Sensorimotor Integration Influences Resting-State Functional Brain Connectivity. <i>Brain Sciences</i> , 2020 , 10,	3.4	1
123	Generation of diverse insect-like gait patterns using networks of coupled Rössler systems. <i>Chaos</i> , 2020 , 30, 123132	3.3	2
122	. <i>IEEE Access</i> , 2019 , 7, 112269-112283	3.5	
121	. <i>IEEE Access</i> , 2019 , 7, 54638-54657	3.5	5
120	Fading of remote synchronization in tree networks of Stuart-Landau oscillators. <i>Physical Review E</i> , 2019 , 99, 052301	2.4	8
119	Warped phase coherence: An empirical synchronization measure combining phase and amplitude information. <i>Chaos</i> , 2019 , 29, 021102	3.3	2
118	Hyperexcitability in Cultured Cortical Neuron Networks from the G93A-SOD1 Amyotrophic Lateral Sclerosis Model Mouse and its Molecular Correlates. <i>Neuroscience</i> , 2019 , 416, 88-99	3.9	10
117	Signatures of the Crypto-Currency Market Decoupling from the Forex. <i>Future Internet</i> , 2019 , 11, 154	3.3	38
116	. <i>IEEE Access</i> , 2019 , 7, 174793-174821	3.5	8
115	Generation of surrogate event sequences via joint distribution of successive inter-event intervals. <i>Chaos</i> , 2019 , 29, 121102	3.3	8
114	Two-Year Longitudinal Monitoring of Amnesic Mild Cognitive Impairment Patients with Prodromal Alzheimer's Disease Using Topographical Biomarkers Derived from Functional Magnetic Resonance Imaging and Electroencephalographic Activity. <i>Journal of Alzheimer's Disease</i> , 2019 , 69, 15-35	4.3	17
113	Method for retrospective estimation of natural head movement during structural MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 927-937	5.6	8
112	Versatile Locomotion Control of a Hexapod Robot Using a Hierarchical Network of Nonlinear Oscillator Circuits. <i>IEEE Access</i> , 2018 , 6, 8042-8065	3.5	39
111	Evidence of altered pressure pain thresholds in persons with disorders of consciousness as measured by the Nociception Coma Scale-Italian version. <i>Neuropsychological Rehabilitation</i> , 2018 , 28, 1295-1310	3.1	2

110	Bitcoin market route to maturity? Evidence from return fluctuations, temporal correlations and multiscaling effects. <i>Chaos</i> , 2018 , 28, 071101	3.3	60
109	Hysteresis, neural avalanches, and critical behavior near a first-order transition of a spiking neural network. <i>Physical Review E</i> , 2018 , 97, 062305	2.4	29
108	Across Neurons and Silicon: Some Experiments Regarding the Pervasiveness of Nonlinear Phenomena. <i>Acta Physica Polonica B</i> , 2018 , 49, 2029	1.9	11
107	High-dimensional dynamics in a single-transistor oscillator containing Feynman-Sierpiński resonators: Effect of fractal depth and irregularity. <i>Chaos</i> , 2018 , 28, 093112	3.3	3
106	Apparent remote synchronization of amplitudes: A demodulation and interference effect. <i>Chaos</i> , 2018 , 28, 063124	3.3	7
105	A longitudinal DTI and histological study of the spinal cord reveals early pathological alterations in G93A-SOD1 mouse model of amyotrophic lateral sclerosis. <i>Experimental Neurology</i> , 2017 , 293, 43-52	5.7	16
104	Atypical transistor-based chaotic oscillators: Design, realization, and diversity. <i>Chaos</i> , 2017 , 27, 073113	3.3	26
103	A comparative study on assessment procedures and metric properties of two scoring systems of the Coma Recovery Scale-Revised items: standard and modified scores. <i>Clinical Rehabilitation</i> , 2017 , 31, 1226-1237	3.3	1
102	Free water elimination improves test-retest reproducibility of diffusion tensor imaging indices in the brain: A longitudinal multisite study of healthy elderly subjects. <i>Human Brain Mapping</i> , 2017 , 38, 12-26	5.9	51
101	Self-similarity and quasi-idempotence in neural networks and related dynamical systems. <i>Chaos</i> , 2017 , 27, 043115	3.3	5
100	Adult-like neuroelectrical response to inequity in children: Evidence from the ultimatum game. <i>Social Neuroscience</i> , 2016 , 11, 193-206	2	5
99	Longitudinal reproducibility of default-mode network connectivity in healthy elderly participants: A multicentric resting-state fMRI study. <i>NeuroImage</i> , 2016 , 124, 442-454	7.9	58
98	The 4 Mountains Test: A Short Test of Spatial Memory with High Sensitivity for the Diagnosis of Pre-dementia Alzheimer's Disease. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	20
97	Test-retest reliability of the default mode network in a multi-centric fMRI study of healthy elderly: Effects of data-driven physiological noise correction techniques. <i>Human Brain Mapping</i> , 2016 , 37, 2114-32	5.9	27
96	Anger in brain and body: the neural and physiological perturbation of decision-making by emotion. <i>Social Cognitive and Affective Neuroscience</i> , 2016 , 11, 150-8	4	34
95	Allocentric Spatial Memory Testing Predicts Conversion from Mild Cognitive Impairment to Dementia: An Initial Proof-of-Concept Study. <i>Frontiers in Neurology</i> , 2016 , 7, 215	4.1	20
94	Multimodal study of default-mode network integrity in disorders of consciousness. <i>Annals of Neurology</i> , 2016 , 79, 841-853	9.4	41
93	Critical phenomena at a first-order phase transition in a lattice of glow lamps: Experimental findings and analogy to neural activity. <i>Chaos</i> , 2016 , 26, 073103	3.3	8

92	Hybrid Control of a Vision-Guided Robot Arm by EOG, EMG, EEG Biosignals and Head Movement Acquired via a Consumer-Grade Wearable Device. <i>IEEE Access</i> , 2016 , 4, 9528-9541	3.5	39
91	Disruption of posteromedial large-scale neural communication predicts recovery from coma. <i>Neurology</i> , 2016 , 87, 120-1	6.5	4
90	Neuroanatomical substrates for the volitional regulation of heart rate. <i>Frontiers in Psychology</i> , 2015 , 6, 300	3.4	17
89	Synchronization, non-linear dynamics and low-frequency fluctuations: analogy between spontaneous brain activity and networked single-transistor chaotic oscillators. <i>Chaos</i> , 2015 , 25, 033107	3.3	19
88	Experimental Implementation of Networked Chaotic Oscillators Based on Cross-Coupled Inverter Rings in a CMOS Integrated Circuit. <i>Journal of Circuits, Systems and Computers</i> , 2015 , 24, 1550144	0.9	6
87	Remote synchronization of amplitudes across an experimental ring of non-linear oscillators. <i>Chaos</i> , 2015 , 25, 123107	3.3	24
86	Simultaneous PET-MRI Studies of the Concordance of Atrophy and Hypometabolism in Syndromic Variants of Alzheimer's Disease and Frontotemporal Dementia: An Extended Case Series. <i>Journal of Alzheimer's Disease</i> , 2015 , 46, 639-53	4.3	12
85	The Coma Recovery Scale Modified Score: a new scoring system for the Coma Recovery Scale-revised for assessment of patients with disorders of consciousness. <i>International Journal of Rehabilitation Research</i> , 2015 , 38, 350-6	1.8	17
84	In vivo quantitative magnetization transfer imaging correlates with histology during de- and remyelination in cuprizone-treated mice. <i>NMR in Biomedicine</i> , 2015 , 28, 327-37	4.4	61
83	Diagnostic differentiation of mild cognitive impairment due to Alzheimer's disease using a hippocampus-dependent test of spatial memory. <i>Hippocampus</i> , 2015 , 25, 939-51	3.5	42
82	Slow breathing and hypoxic challenge: cardiorespiratory consequences and their central neural substrates. <i>PLoS ONE</i> , 2015 , 10, e0127082	3.7	46
81	Substantia nigra in Parkinson's disease: a multimodal MRI comparison between early and advanced stages of the disease. <i>Neurological Sciences</i> , 2014 , 35, 753-8	3.5	45
80	Experimental synchronization of chaos in a large ring of mutually coupled single-transistor oscillators: phase, amplitude, and clustering effects. <i>Chaos</i> , 2014 , 24, 043108	3.3	18
79	Fast computation of voxel-level brain connectivity maps from resting-state functional MRI using l ₁ norm as approximation of Pearson's temporal correlation: proof-of-concept and example vector hardware implementation. <i>Medical Engineering and Physics</i> , 2014 , 36, 1212-7	2.4	12
78	Accuracy of 2-hydroxyglutarate quantification by short-echo proton-MRS at 3 T: a phantom study. <i>Physica Medica</i> , 2014 , 30, 702-7	2.7	18
77	Widespread alterations in functional brain network architecture in amnesic mild cognitive impairment. <i>Journal of Alzheimer's Disease</i> , 2014 , 40, 213-20	4.3	25
76	Preoperative mapping of the sensorimotor cortex: comparative assessment of task-based and resting-state fMRI. <i>PLoS ONE</i> , 2014 , 9, e98860	3.7	62
75	Assessment of patients with disorder of consciousness: do different Coma Recovery Scale scoring correlate with different settings?. <i>Journal of Neurology</i> , 2014 , 261, 2378-86	5.5	28

74	Fear from the heart: sensitivity to fear stimuli depends on individual heartbeats. <i>Journal of Neuroscience</i> , 2014 , 34, 6573-82	6.6	205
73	Experimental dynamical characterization of five autonomous chaotic oscillators with tunable series resistance. <i>Chaos</i> , 2014 , 24, 033110	3.3	20
72	Experimental models of brain ischemia: a review of techniques, magnetic resonance imaging, and investigational cell-based therapies. <i>Frontiers in Neurology</i> , 2014 , 5, 19	4.1	47
71	Supratentorial and pontine MRI abnormalities characterize recessive spastic ataxia of Charlevoix-Saguenay. A comprehensive study of an Italian series. <i>European Journal of Neurology</i> , 2013 , 20, 138-46	6	41
70	Simultaneous PET/MRI in frontotemporal dementia. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 468-9	8.8	8
69	Severe microcephaly with polynodular heterotopia: a high-field MRI and neuropathological case study. <i>European Journal of Neurology</i> , 2013 , 20, e81-2	6	
68	What the heart forgets: Cardiac timing influences memory for words and is modulated by metacognition and interoceptive sensitivity. <i>Psychophysiology</i> , 2013 , 50, 505-12	4.1	98
67	Abnormalities in fronto-striatal connectivity within language networks relate to differences in grey-matter heterogeneity in Asperger syndrome. <i>NeuroImage: Clinical</i> , 2013 , 2, 716-26	5.3	27
66	Throwing the banana away and keeping the peel: neuroelectric responses to unexpected but physically feasible action endings. <i>Brain Research</i> , 2013 , 1532, 56-62	3.7	11
65	Detection of scale-freeness in brain connectivity by functional MRI: signal processing aspects and implementation of an open hardware co-processor. <i>Medical Engineering and Physics</i> , 2013 , 35, 1525-31	2.4	7
64	Rapid geodesic mapping of brain functional connectivity: implementation of a dedicated co-processor in a field-programmable gate array (FPGA) and application to resting state functional MRI. <i>Medical Engineering and Physics</i> , 2013 , 35, 1532-9	2.4	4
63	Preoperative language lateralization in temporal lobe epilepsy (TLE) predicts peri-ictal, pre- and post-operative language performance: An fMRI study. <i>NeuroImage: Clinical</i> , 2013 , 3, 73-83	5.3	51
62	Emotional regulation and bodily sensation: interoceptive awareness is intact in borderline personality disorder. <i>Journal of Personality Disorders</i> , 2013 , 27, 506-18	2.6	62
61	Gray matter textural heterogeneity as a potential in-vivo biomarker of fine structural abnormalities in Asperger syndrome. <i>Pharmacogenomics Journal</i> , 2013 , 13, 70-9	3.5	16
60	Altered semantic integration in autism beyond language: a cross-modal event-related potentials study. <i>NeuroReport</i> , 2013 , 24, 414-8	1.7	11
59	Connectivity of the amygdala, piriform, and orbitofrontal cortex during olfactory stimulation: a functional MRI study. <i>NeuroReport</i> , 2013 , 24, 171-5	1.7	24
58	From brain topography to brain topology: relevance of graph theory to functional neuroscience. <i>NeuroReport</i> , 2013 , 24, 536-43	1.7	19
57	Effective connectivity reveals strategy differences in an expert calculator. <i>PLoS ONE</i> , 2013 , 8, e73746	3.7	10

56	Je pense donc je fais: transcranial direct current stimulation modulates brain oscillations associated with motor imagery and movement observation. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 256	3.3	33
55	Impact of functional MRI data preprocessing pipeline on default-mode network detectability in patients with disorders of consciousness. <i>Frontiers in Neuroinformatics</i> , 2013 , 7, 16	3.9	14
54	Thoughts turned into high-level commands: Proof-of-concept study of a vision-guided robot arm driven by functional MRI (fMRI) signals. <i>Medical Engineering and Physics</i> , 2012 , 34, 650-8	2.4	12
53	Neural signatures of economic parameters during decision-making: a functional MRI (fMRI), electroencephalography (EEG) and autonomic monitoring study. <i>Brain Topography</i> , 2012 , 25, 73-96	4.3	22
52	Decision-making under risk: a graph-based network analysis using functional MRI. <i>NeuroImage</i> , 2012 , 60, 2191-205	7.9	35
51	Sex differences and autism: brain function during verbal fluency and mental rotation. <i>PLoS ONE</i> , 2012 , 7, e38355	3.7	52
50	Detecting scale violations in absence of mismatch requires music-syntactic analysis: a further look at the early right anterior negativity (ERAN). <i>Brain Topography</i> , 2012 , 25, 285-92	4.3	7
49	Emotional appraisal is influenced by cardiac afferent information. <i>Emotion</i> , 2012 , 12, 180-91	4.1	111
48	Autism attenuates sex differences in brain structure: a combined voxel-based morphometry and diffusion tensor imaging study. <i>American Journal of Neuroradiology</i> , 2012 , 33, 83-9	4.4	81
47	Effects of transcranial direct-current stimulation (tDCS) of the dorsolateral prefrontal cortex (DLPFC) during a mixed-gambling risky decision-making task. <i>Cognitive Neuroscience</i> , 2012 , 3, 80-8	1.7	29
46	Functional connectivity during resting-state functional MR imaging: study of the correspondence between independent component analysis and region-of-interest-based methods. <i>American Journal of Neuroradiology</i> , 2012 , 33, 180-7	4.4	85
45	Brain structure and joint hypermobility: relevance to the expression of psychiatric symptoms. <i>British Journal of Psychiatry</i> , 2012 , 200, 508-9	5.4	48
44	Detecting conscious awareness from involuntary autonomic responses. <i>Consciousness and Cognition</i> , 2011 , 20, 936-42	2.6	6
43	Under pressure: response urgency modulates striatal and insula activity during decision-making under risk. <i>PLoS ONE</i> , 2011 , 6, e20942	3.7	31
42	Direct skin-to-skin versus indirect touch modulates neural responses to stroking versus tapping. <i>NeuroReport</i> , 2011 , 22, 646-51	1.7	29
41	Choice-option evaluation is preserved in early Huntington and Parkinson's disease. <i>NeuroReport</i> , 2011 , 22, 753-7	1.7	9
40	The neural basis of illusory gustatory sensations: two rare cases of lexical-gustatory synaesthesia. <i>Journal of Neuropsychology</i> , 2011 , 5, 243-54	2.6	26
39	Abnormal ERD/ERS but unaffected BOLD response in patients with Unverricht-Lundborg disease during index extension: a simultaneous EEG-fMRI study. <i>Brain Topography</i> , 2011 , 24, 65-77	4.3	15

38	Resting-state brain networks: literature review and clinical applications. <i>Neurological Sciences</i> , 2011 , 32, 773-85	3.5	343
37	Acute tryptophan depletion attenuates conscious appraisal of social emotional signals in healthy female volunteers. <i>Psychopharmacology</i> , 2011 , 213, 603-13	4.7	15
36	Intra- and extra-cranial effects of transient blood pressure changes on brain near-infrared spectroscopy (NIRS) measurements. <i>Journal of Neuroscience Methods</i> , 2011 , 197, 283-8	3	96
35	Responding to unfair offers made by a friend: neuroelectrical activity changes in the anterior medial prefrontal cortex. <i>Journal of Neuroscience</i> , 2011 , 31, 15569-74	6.6	48
34	Combined 7-T MRI and histopathologic study of normal and dysplastic samples from patients with TLE. <i>Neurology</i> , 2011 , 76, 1177-85	6.5	35
33	Variability comparison of simultaneous brain near-infrared spectroscopy and functional magnetic resonance imaging during visual stimulation. <i>Journal of Medical Engineering and Technology</i> , 2011 , 35, 370-6	1.8	16
32	Simultaneous EEG-fMRI in patients with Unverricht-Lundborg disease: event-related desynchronization/synchronization and hemodynamic response analysis. <i>Computational Intelligence and Neuroscience</i> , 2010 , 164278	3	2
31	Decreased diffusivity in the caudate nucleus of presymptomatic huntington disease gene carriers: which explanation?. <i>American Journal of Neuroradiology</i> , 2010 , 31, 706-10	4.4	19
30	Event-related potential (ERP) markers of melodic processing: The N2 component is modulated by structural complexity, not by melodic meaningfulness. <i>Brain Research Bulletin</i> , 2010 , 83, 23-8	3.9	12
29	Effect of diffusion-sensitizing gradient timings on the exponential, biexponential and diffusional kurtosis model parameters: in-vivo measurements in the rat thalamus. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010 , 23, 115-21	2.8	3
28	Baroreceptor activation attenuates attentional effects on pain-evoked potentials. <i>Pain</i> , 2010 , 151, 853-861	4.6	46
27	Quantitation of normal metabolite concentrations in six brain regions by in-vivo H-MR spectroscopy. <i>Journal of Medical Physics</i> , 2010 , 35, 154-63	0.7	43
26	Engagement of the medial temporal lobe in verbal and nonverbal memory: assessment with functional MR imaging in healthy subjects. <i>American Journal of Neuroradiology</i> , 2009 , 30, 1134-41	4.4	25
25	Functional MRI/event-related potential study of sensory consonance and dissonance in musicians and nonmusicians. <i>NeuroReport</i> , 2009 , 20, 87-92	1.7	40
24	White matter involvement in idiopathic Parkinson disease: a diffusion tensor imaging study. <i>American Journal of Neuroradiology</i> , 2009 , 30, 1222-6	4.4	184
23	Early involvement of dorsal and ventral pathways in visual word recognition: an ERP study. <i>Brain Research</i> , 2009 , 1272, 32-44	3.7	40
22	Current concepts in Alzheimer's disease: a multidisciplinary review. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2009 , 24, 95-121	2.5	193
21	Physiological recordings: basic concepts and implementation during functional magnetic resonance imaging. <i>NeuroImage</i> , 2009 , 47, 1105-15	7.9	46

20	Emotional modulation of visual cortex activity: a functional near-infrared spectroscopy study. <i>NeuroReport</i> , 2009 , 20, 1344-50	1.7	26
19	Can MR imaging diagnose adult-onset Alexander disease?. <i>American Journal of Neuroradiology</i> , 2008 , 29, 1190-6	4.4	80
18	fMRI/ERP of musical syntax: comparison of melodies and unstructured note sequences. <i>NeuroReport</i> , 2008 , 19, 1381-5	1.7	32
17	Spatial correspondence between functional MRI (fMRI) activations and cortical current density maps of event-related potentials (ERP): a study with four tasks. <i>Brain Topography</i> , 2008 , 21, 112-27	4.3	8
16	Rapid generation of biexponential and diffusional kurtosis maps using multi-layer perceptrons: a preliminary experience. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008 , 21, 299-305 ^{2.8}	2.8	2
15	Elevating tensor rank increases anisotropy in brain areas associated with intra-voxel orientational heterogeneity (IVOH): a generalised DTI (GDTI) study. <i>NMR in Biomedicine</i> , 2008 , 21, 2-14	4.4	7
14	Functional MRI in malformations of cortical development: activation of dysplastic tissue and functional reorganization. <i>Journal of Neuroimaging</i> , 2008 , 18, 296-305	2.8	20
13	MR spectroscopy, functional MRI, and diffusion-tensor imaging in the aging brain: a conceptual review. <i>Journal of Geriatric Psychiatry and Neurology</i> , 2007 , 20, 3-21	3.8	90
12	Spontaneous intracranial hypotension with deep brain swelling. <i>Brain</i> , 2007 , 130, 1884-93	11.2	79
11	Physical foundations, models, and methods of diffusion magnetic resonance imaging of the brain: A review. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2007 , 30A, 278-307	0.6	59
10	Sedation of neurologically impaired children undergoing MRI: a sequential approach. <i>Paediatric Anaesthesia</i> , 2007 , 17, 630-6	1.8	35
9	Loss of heterozygosity studies in extracranial metastatic meningiomas. <i>Journal of Neuro-Oncology</i> , 2007 , 85, 81-5	4.8	12
8	Bio-image warehouse system: concept and implementation of a diagnosis-based data warehouse for advanced imaging modalities in neuroradiology. <i>Journal of Digital Imaging</i> , 2007 , 20, 32-41	5.3	9
7	Biexponential and diffusional kurtosis imaging, and generalised diffusion-tensor imaging (GDTI) with rank-4 tensors: a study in a group of healthy subjects. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007 , 20, 241-53	2.8	27
6	Conversion of the BASE prion strain into the BSE strain: the origin of BSE?. <i>PLoS Pathogens</i> , 2007 , 3, e31	7.6	129
5	Predictive value of the El-Ganzouri multivariate risk index for difficult tracheal intubation: a comparison of Glidescope videolaryngoscopy and conventional Macintosh laryngoscopy. <i>British Journal of Anaesthesia</i> , 2007 , 99, 906-11	5.4	40
4	Diffusion tensor imaging of spinocerebellar ataxias types 1 and 2. <i>American Journal of Neuroradiology</i> , 2007 , 28, 1996-2000	4.4	51
3	Early experience with remote pressure sensor respiratory plethysmography monitoring sedation in the MR scanner. <i>European Journal of Anaesthesiology</i> , 2007 , 24, 761-9	2.3	4

2	The Von Restorff effect in ageing and Alzheimer's disease. <i>Neurological Sciences</i> , 2006 , 27, 166-72	3.5	12
1	A tree architecture with hierarchical data processing on a sensor-rich hexapod robot. <i>Advanced Robotics</i> , 2002 , 16, 595-608	1.7	5