

# Joshua M Rosenow

## List of Publications by Year in descending order

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136  
papers

4,329  
citations

109321

35  
h-index

133252

59  
g-index

149  
all docs

149  
docs citations

149  
times ranked

4722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nasal Respiration Entrains Human Limbic Oscillations and Modulates Cognitive Function. Journal of Neuroscience, 2016, 36, 12448-12467.	3.6	355
2	Cellular injury and neuroinflammation in children with chronic intractable epilepsy. Journal of Neuroinflammation, 2009, 6, 38.	7.2	181
3	Frameless stereotaxy using bone fiducial markers for deep brain stimulation. Journal of Neurosurgery, 2005, 103, 404-413.	1.6	180
4	Direct classification of all American English phonemes using signals from functional speech motor cortex. Journal of Neural Engineering, 2014, 11, 035015.	3.5	149
5	ACR Appropriateness Criteria Low Back Pain. Journal of the American College of Radiology, 2016, 13, 1069-1078.	1.8	147
6	Failure modes of spinal cord stimulation hardware. Journal of Neurosurgery: Spine, 2006, 5, 183-190.	1.7	115
7	Repetitive transcranial magnetic stimulation-associated neurobehavioral gains during coma recovery. Brain Stimulation, 2009, 2, 22-35.	1.6	115
8	Desmopressin Improves Platelet Activity in Acute Intracerebral Hemorrhage. Stroke, 2014, 45, 2451-2453.	2.0	99
9	The Neurostimulation Appropriateness Consensus Committee (NACC) Safety Guidelines for the Reduction of Severe Neurological Injury. Neuromodulation, 2017, 20, 15-30.	0.8	97
10	Irving S. Cooper and His Role in Intracranial Stimulation for Movement Disorders and Epilepsy. Stereotactic and Functional Neurosurgery, 2002, 78, 95-112.	1.5	92
11	Subthalamic nucleus deep brain stimulation with a multiple independent constant current-controlled device in Parkinson's disease (INTREPID): a multicentre, double-blind, randomised, sham-controlled study. Lancet Neurology, The, 2020, 19, 491-501.	10.2	88
12	Deep Brain Stimulation for Obsessive-Compulsive Disorder. Neurosurgery, 2014, 75, 327-333.	1.1	86
13	Amygdala stimulation-induced apnea is attention and nasal breathing dependent. Annals of Neurology, 2018, 83, 460-471.	5.3	86
14	Percutaneous peripheral nerve stimulation for the treatment of chronic neuropathic postamputation pain: a multicenter, randomized, placebo-controlled trial. Regional Anesthesia and Pain Medicine, 2019, 44, 637-645.	2.3	86
15	UTILITY OF BRAIN BIOPSY IN PATIENTS WITH ACQUIRED IMMUNODEFICIENCY SYNDROME BEFORE AND AFTER INTRODUCTION OF HIGHLY ACTIVE ANTIRETROVIRAL THERAPY. Neurosurgery, 2007, 61, 130-141.	1.1	85
16	Extracting kinetic information from human motor cortical signals. NeuroImage, 2014, 101, 695-703.	4.2	84
17	Spinal Cord Stimulator Implant Infection Rates and Risk Factors: A Multicenter Retrospective Study. Neuromodulation, 2017, 20, 558-562.	0.8	83
18	Placebo-Controlled Trial of Familiar Auditory Sensory Training for Acute Severe Traumatic Brain Injury. Neurorehabilitation and Neural Repair, 2015, 29, 537-547.	2.9	71

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19	Continuous decoding of human grasp kinematics using epidural and subdural signals. <i>Journal of Neural Engineering</i> , 2017, 14, 016005.	3.5	64
20	Occipital Nerve Stimulation for the Treatment of Patients With Medically Refractory Occipital Neuralgia. <i>Neurosurgery</i> , 2015, 77, 332-341.	1.1	63
21	Efficacy of multiple intraarterial papaverine infusions for improvement in cerebral circulation time in patients with recurrent cerebral vasospasm. <i>Journal of Neurosurgery</i> , 2004, 100, 414-421.	1.6	61
22	Recovery of Pain Control by Intensive Reprogramming after Loss of Benefit from Motor Cortex Stimulation for Neuropathic Pain. <i>Stereotactic and Functional Neurosurgery</i> , 2004, 82, 207-213.	1.5	61
23	Impact of resident involvement in neurosurgery: an analysis of 8748 patients from the 2011 American College of Surgeons National Surgical Quality Improvement Program database. <i>Journal of Neurosurgery</i> , 2015, 122, 962-970.	1.6	61
24	The effect of seizure spread to the amygdala on respiration and onset of ictal central apnea. <i>Journal of Neurosurgery</i> , 2020, 132, 1313-1323.	1.6	57
25	Theta Oscillations Rapidly Convey Odor-Specific Content in Human Piriform Cortex. <i>Neuron</i> , 2017, 94, 207-219.e4.	8.1	56
26	Percutaneous 60-day peripheral nerve stimulation implant provides sustained relief of chronic pain following amputation: 12-month follow-up of a randomized, double-blind, placebo-controlled trial. <i>Regional Anesthesia and Pain Medicine</i> , 2020, 45, 44-51.	2.3	55
27	Defensive Medicine in Neurosurgery. <i>Neurosurgery</i> , 2015, 76, 105-114.	1.1	51
28	Reconfigurable MRI technology for low-SAR imaging of deep brain stimulation at 3T: Application in bilateral leads, fully-implanted systems, and surgically modified lead trajectories. <i>NeuroImage</i> , 2019, 199, 18-29.	4.2	51
29	Hippocampal theta coordinates memory processing during visual exploration. <i>ELife</i> , 2020, 9, .	6.0	51
30	The application accuracy of a skull-mounted trajectory guide system for image-guided functional neurosurgery. <i>Computer Aided Surgery</i> , 2004, 9, 155-160.	1.8	49
31	Suppression of deep brain stimulation artifacts from the electroencephalogram by frequency-domain Hampel filtering. <i>Clinical Neurophysiology</i> , 2010, 121, 1227-1232.	1.5	49
32	Transcranial Magnetic Stimulation. <i>Journal of Head Trauma Rehabilitation</i> , 2006, 21, 437-451.	1.7	47
33	Spinal Cord Stimulator Related Infections: Findings From a Multicenter Retrospective Analysis of 2737 Implants. <i>Neuromodulation</i> , 2017, 20, 553-557.	0.8	46
34	Atypical meningioma: Randomized trials are required to resolve contradictory retrospective results regarding the role of adjuvant radiotherapy. <i>Journal of Cancer Research and Therapeutics</i> , 2015, 11, 59.	0.9	44
35	Application Accuracy of an Electromagnetic Field-Based Image-Guided Navigation System. <i>Stereotactic and Functional Neurosurgery</i> , 2007, 85, 75-81.	1.5	43
36	Ultrasound-guided trigeminal nerve block via the pterygopalatine fossa: an effective treatment for trigeminal neuralgia and atypical facial pain. <i>Pain Physician</i> , 2013, 16, E537-45.	0.4	43

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37	A phase II trial evaluating the effects and intra-tumoral penetration of bortezomib in patients with recurrent malignant gliomas. <i>Journal of Neuro-Oncology</i> , 2016, 129, 139-146.	2.9	36
38	Effect of Device Configuration and Patient's Body Composition on the RF Heating and Nonsusceptibility Artifact of Deep Brain Stimulation Implants During MRI at 1.5T and 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 599-610.	3.4	36
39	Human olfactory-auditory integration requires phase synchrony between sensory cortices. <i>Nature Communications</i> , 2019, 10, 1168.	12.8	34
40	Patient Perspectives on the Efficacy and Ergonomics of Rechargeable Spinal Cord Stimulators. <i>Neuromodulation</i> , 2010, 13, 218-223.	0.8	33
41	Deep Brain Stimulation and Motor Cortical Stimulation for Neuropathic Pain. <i>Current Pain and Headache Reports</i> , 2011, 15, 8-13.	2.9	33
42	Neurosurgeons' responses to changing Medicare reimbursement. <i>Neurosurgical Focus</i> , 2014, 37, E12.	2.3	33
43	A 12-Month Prospective Study of Gasserian Ganglion Stimulation for Trigeminal Neuropathic Pain. <i>Stereotactic and Functional Neurosurgery</i> , 2007, 85, 216-224.	1.5	31
44	Simultaneous use of bilateral subthalamic nucleus stimulators and an implantable cardiac defibrillator. <i>Journal of Neurosurgery</i> , 2003, 99, 167-169.	1.6	30
45	Hypophysopexy technique for radiosurgical treatment of cavernous sinus pituitary adenoma. <i>Pituitary</i> , 2002, 5, 169-173.	2.9	28
46	Preliminary framework for Familiar Auditory Sensory Training (FAST) provided during coma recovery. <i>Journal of Rehabilitation Research and Development</i> , 2012, 49, 1137.	1.6	28
47	Methodological considerations for a chronic neural interface with the cuneate nucleus of macaques. <i>Journal of Neurophysiology</i> , 2017, 118, 3271-3281.	1.8	28
48	Human hippocampal connectivity is stronger in olfaction than other sensory systems. <i>Progress in Neurobiology</i> , 2021, 201, 102027.	5.7	28
49	Safety and image quality at 7T MRI for deep brain stimulation systems: Ex vivo study with lead-only and full-systems. <i>PLoS ONE</i> , 2021, 16, e0257077.	2.5	27
50	Deep brain stimulation for movement disorders. <i>Neurological Research</i> , 2004, 26, 9-20.	1.3	26
51	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. <i>Npj Digital Medicine</i> , 2020, 3, 29.	10.9	26
52	RF heating of deep brain stimulation implants in open-bore vertical MRI systems: A simulation study with realistic device configurations. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2284-2292.	3.0	25
53	Vertical open-bore MRI scanners generate significantly less radiofrequency heating around implanted leads: A study of deep brain stimulation implants in 1.2T OASIS scanners versus 1.5T horizontal systems. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1560-1572.	3.0	25
54	rTMS Safety for Two Subjects With Disordered Consciousness After Traumatic Brain Injury. <i>Brain Stimulation</i> , 2014, 7, 620-622.	1.6	23

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55	Machine Learning-Based Prediction of MRI-Induced Power Absorption in the Tissue in Patients With Simplified Deep Brain Stimulation Lead Models. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021, 63, 1757-1766.	2.2	21
56	Sensory computations in the cuneate nucleus of macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
57	The application accuracy of a skull-mounted trajectory guide system for image-guided functional neurosurgery. <i>Computer Aided Surgery</i> , 2004, 9, 155-160.	1.8	20
58	Type IV Spinal Arteriovenous Malformation in Association with Familial Pulmonary Vascular Malformations: Case Report. <i>Neurosurgery</i> , 2000, 46, 1240-1245.	1.1	19
59	Patient's body composition can significantly affect RF power deposition in the tissue around DBS implants: ramifications for lead management strategies and MRI field-shaping techniques. <i>Physics in Medicine and Biology</i> , 2021, 66, 015008.	3.0	18
60	Anatomy and physiology of chronic pain. <i>Neurosurgery Clinics of North America</i> , 2003, 14, 445-462.	1.7	17
61	Emergent Image-Guided Treatment of a Large CSF Leak to Reverse "Extremis" Signs of Intracranial Hypotension. <i>American Journal of Neuroradiology</i> , 2008, 29, 1627-1629.	2.4	17
62	Encoding of limb state by single neurons in the cuneate nucleus of awake monkeys. <i>Journal of Neurophysiology</i> , 2021, 126, 693-706.	1.8	17
63	Precentral stimulation for chronic pain. <i>Neurosurgery Clinics of North America</i> , 2003, 14, 437-444.	1.7	16
64	Physician-Owned Hospitals, Neurosurgeons, and Disclosure: Lessons From Law and the Literature. <i>Neurosurgery</i> , 2011, 68, 1724-1732.	1.1	16
65	Rapid coordination of effective learning by the human hippocampus. <i>Science Advances</i> , 2021, 7, .	10.3	16
66	Ethical Considerations in the Implantation of Neuromodulatory Devices. <i>Neuromodulation</i> , 2022, 25, 222-231.	0.8	16
67	A Pilot Trial Examining the Merits of Combining Amantadine and Repetitive Transcranial Magnetic Stimulation as an Intervention for Persons With Disordered Consciousness After TBI. <i>Journal of Head Trauma Rehabilitation</i> , 2020, 35, 371-387.	1.7	16
68	Smell-induced gamma oscillations in human olfactory cortex are required for accurate perception of odor identity. <i>PLoS Biology</i> , 2022, 20, e3001509.	5.6	16
69	The what and when of olfactory working memory in humans. <i>Current Biology</i> , 2021, 31, 4499-4511.e8.	3.9	15
70	History of the Therapeutic Use of Electricity on the Brain and the Development of Deep Brain Stimulation. , 2008, , 63-82.		15
71	The Representation of Finger Movement and Force in Human Motor and Premotor Cortices. <i>ENeuro</i> , 2020, 7, ENEURO.0063-20.2020.	1.9	15
72	Modifying surgical implantation of deep brain stimulation leads significantly reduces RF-induced heating during 3 T MRI. , 2021, 2021, 4978-4981.		15

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73	ACR Appropriateness Criteria Dementia and Movement Disorders. Journal of the American College of Radiology, 2015, 12, 19-28.	1.8	14
74	Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on Neuroablative Procedures for Patients With Cancer Pain. Neurosurgery, 2021, 88, 437-442.	1.1	14
75	Intrathecal Baclofen Administration During Pregnancy: A Case Series and Focused Clinical Review. PM and R, 2009, 1, 1025-1029.	1.6	13
76	Bilateral Cervicothoracic Transforaminal Blood Patches for Persistent Headache From Spontaneous Intracranial Hypotension. Clinical Journal of Pain, 2011, 27, 357-364.	1.9	13
77	Deep brain stimulation improves movement amplitude but not hastening of repetitive finger movements. Neuroscience Letters, 2013, 552, 135-139.	2.1	13
78	Bilateral Deep Brain Stimulation is the Procedure to Beat for Advanced Parkinson Disease: A Meta-Analytic, Cost-Effective Threshold Analysis for Focused Ultrasound. Neurosurgery, 2021, 88, 487-496.	1.1	13
79	Ethical considerations in the surgical and neuromodulatory treatment of epilepsy. Epilepsy and Behavior, 2022, 127, 108524.	1.7	13
80	Ictal kissing: a release phenomenon in non-dominant temporal lobe epilepsy. Epileptic Disorders, 2010, 12, 262-269.	1.3	12
81	RF heating of deep brain stimulation implants during MRI in 1.2 T vertical scanners versus 1.5 T horizontal systems: A simulation study with realistic lead configurations. , 2020, 2020, 6143-6146.		11
82	ACR Appropriateness Criteria® Dementia. Journal of the American College of Radiology, 2020, 17, S100-S112.	1.8	11
83	Safety Considerations for the Use of Transcranial Magnetic Stimulation as Treatment for Coma Recovery in People With Severe Traumatic Brain Injury. Journal of Head Trauma Rehabilitation, 2020, 35, 430-438.	1.7	11
84	ACR Appropriateness Criteria® Cranial Neuropathy. Journal of the American College of Radiology, 2017, 14, S406-S420.	1.8	10
85	The American Society for Stereotactic and Functional Neurosurgery Position Statement on Laser Interstitial Thermal Therapy for the Treatment of Drug-Resistant Epilepsy. Neurosurgery, 2022, 90, 155-160.	1.1	10
86	Impact of fiducial arrangement and registration sequence on target accuracy using a phantom frameless stereotactic navigation model. Journal of Clinical Neuroscience, 2014, 21, 1976-1980.	1.5	9
87	Physician Guidance on the Use of Off-Labeled Drugs in Intrathecal Drug Delivery Systems for Chronic Pain. Neuromodulation, 2019, 22, 765-768.	0.8	9
88	Neuromodulatory Interventions for Traumatic Brain Injury. Journal of Head Trauma Rehabilitation, 2020, 35, 365-370.	1.7	9
89	Seizure outcome in patients with cavernous malformation after early surgery. Epilepsy and Behavior, 2021, 115, 107662.	1.7	9
90	Restriction of Access to Deep Brain Stimulation for Refractory OCD: Failure to Apply the Federal Parity Act. Frontiers in Psychiatry, 2021, 12, 706181.	2.6	9

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91	ACR Appropriateness Criteria® Seizures and Epilepsy. Journal of the American College of Radiology, 2020, 17, S293-S304.	1.8	9
92	Anticipation-induced delta phase reset improves human olfactory perception. PLoS Biology, 2020, 18, e3000724.	5.6	8
93	North American survey on impact of the COVID-19 pandemic shutdown on DBS care. Parkinsonism and Related Disorders, 2021, 92, 41-45.	2.2	8
94	Rupture of a Large Ophthalmic Segment Saccular Aneurysm Associated with Closed Head Injury: Case Report. Neurosurgery, 2000, 46, 1515-1518.	1.1	7
95	Decoding of articulatory gestures during word production using speech motor and premotor cortical activity. , 2015, 2015, 5339-42.		7
96	ACR Appropriateness Criteria® Ataxia. Journal of the American College of Radiology, 2019, 16, S44-S56.	1.8	7
97	Neural Connectivity Changes Facilitated by Familiar Auditory Sensory Training in Disordered Consciousness: A TBI Pilot Study. Frontiers in Neurology, 2020, 11, 1027.	2.4	7
98	Increased Subthalamic Nucleus Deep Brain Stimulation Amplitude Impairs Inhibitory Control of Eye Movements in Parkinson's Disease. Neuromodulation, 2021, , .	0.8	7
99	A History of the Council of State Neurosurgical Societies. Neurosurgery, 2017, 80, 146-157.	1.1	6
100	Prospective Evaluation of the Time Course of White Matter Edema Associated with Implanted Deep Brain Stimulation Electrodes. Stereotactic and Functional Neurosurgery, 2021, 99, 203-206.	1.5	6
101	Importance of Laterality in Cervical Spinal Cord Stimulation for Facial Pain: Case Report and Anatomic Review. Operative Neurosurgery, 2020, 19, E83-E86.	0.8	5
102	124â€fLow-Back Pain Relief With a New 32-Contact Surgical Lead and Neural Targeting Algorithm. Neurosurgery, 2016, 63, 151.	1.1	4
103	Device Configuration and Patientâ€™s Body Composition Significantly Affect RF Heating of Deep Brain Stimulation Implants During MRI: An Experimental Study at 1.5T and 3T. , 2020, 2020, 5192-5197.		4
104	Using Functionality Rather than Elective Nature to Characterize Neurosurgeries During Pandemic Triage. American Journal of Bioethics, 2020, 20, 196-198.	0.9	4
105	ACR Appropriateness Criteria® Movement Disorders and Neurodegenerative Diseases. Journal of the American College of Radiology, 2020, 17, S175-S187.	1.8	4
106	Emergent intrathecal baclofen withdrawal after pseudomeningocele aspiration. Pain Physician, 2013, 16, E113-8.	0.4	4
107	Factors Associated With Implantable Pulse Generator Site Pain: A Multicenter Crossâ€§ectional Study. Neuromodulation, 2020, , .	0.8	3
108	The Medical Legal Environment in Neurosurgery: An Informative Overview of the Stages of Litigation and Distinct Challenges. World Neurosurgery, 2021, 151, 370-374.	1.3	3

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109	Cervical Spinal Cord Stimulation for Facial Pain. <i>Progress in Neurological Surgery</i> , 2020, 35, 1-8.	1.3	3
110	Implantable Devices and Magnetic Resonance Imaging. <i>Anesthesia and Analgesia</i> , 2011, 112, 1013-1015.	2.2	2
111	Spinal Cord Stimulation for Electrical Storm Refractory to Conventional Medical Treatment: An Emerging Indication?. <i>Neuromodulation</i> , 2015, 18, 194-196.	0.8	2
112	Credentialing, Certification, and Peer Review Essentials for the Neurosurgeon. <i>World Neurosurgery</i> , 2021, 151, 364-369.	1.3	2
113	Optimizing Medical Care Via Practice Guidelines and Quality Improvement Initiatives. <i>World Neurosurgery</i> , 2021, 151, 375-379.	1.3	2
114	Socioeconomic Implications of Professional Relationships within Modern Care Delivery Systems. <i>World Neurosurgery</i> , 2021, 151, 353-363.	1.3	2
115	Intraoperative Computed Tomography for Registration of Stereotactic Frame in Frame-Based Deep Brain Stimulation. <i>Operative Neurosurgery</i> , 2021, 20, E186-E189.	0.8	2
116	Mimetic automatism expressing a negative affect in two patients with temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2011, 20, 572-578.	1.7	1
117	Analysis of the gender distribution of industry- and society-sponsored webinar faculty during the COVID-19 pandemic. <i>Journal of Clinical Anesthesia</i> , 2020, 67, 110040.	1.6	1
118	Neurosurgery Billing and Reimbursement in 2021. <i>World Neurosurgery</i> , 2021, 151, 348-352.	1.3	1
119	“There’s got to be a better way” Global Perspectives of Medicolegal Environment and Neurosurgical Socioeconomics. <i>World Neurosurgery</i> , 2021, 151, 341-347.	1.3	1
120	Cross-Sectional Analysis of US Health Insurance Payer Policies for Humanitarian Device Exemption Indications for Deep Brain Stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2022, , 1-4.	1.5	1
121	A 12-month Prospective Study on Gasserian Stimulation for Neuropathic Facial Pain. <i>Neurosurgery</i> , 2005, 57, 413-413.	1.1	0
122	Utility of Brain Biopsy in Patients with Acquired Immunodeficiency Syndrome Before and After Introduction of Highly Active Antiretroviral Therapy. <i>Neurosurgery</i> , 2008, 63, E1209.	1.1	0
123	Microsurgical Treatment of a Premotor Arteriovenous Malformation: 3-Dimensional Illustration. <i>Operative Neurosurgery</i> , 2013, 72, ons1-ons1.	0.8	0
124	In Reply. <i>Neurosurgery</i> , 2015, 77, E156-E157.	1.1	0
125	Anesthesia Dolorosa. , 2018, , 381-384.		0
126	Commentary: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Deep Brain Stimulation for Obsessive-Compulsive Disorder: Update of the 2014 Guidelines. <i>Neurosurgery</i> , 2021, 88, E552-E553.	1.1	0



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127	Advocacy to Government and Stakeholders. World Neurosurgery, 2021, 151, 380-385.	1.3	0
128	Letter to the Editor Regarding "Application of Remote Deep Brain Stimulation Programming for Parkinson Disease Patients" World Neurosurgery, 2021, 155, 199.	1.3	0
129	Peripheral Nerve Stimulation" Cervical Syndromes. , 2016, , 191-197.		0
130	Deep Brain Stimulation and Motor Cortical Stimulation for Malignant Pain. , 2019, , 241-245.		0
131	The college as a forum for collaboration. Bulletin of the American College of Surgeons, 2005, 90, 14.	0.3	0
132	Anticipation-induced delta phase reset improves human olfactory perception. , 2020, 18, e3000724.		0
133	Anticipation-induced delta phase reset improves human olfactory perception. , 2020, 18, e3000724.		0
134	Anticipation-induced delta phase reset improves human olfactory perception. , 2020, 18, e3000724.		0
135	Anticipation-induced delta phase reset improves human olfactory perception. , 2020, 18, e3000724.		0
136	Management of Cancer Pain. JAMA - Journal of the American Medical Association, 2004, 291, 1067.	7.4	0