

Venkata S Mattay

List of Publications by Year in descending order

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132
papers

26,910
citations

12330
69
h-index

12272
133
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139
all docs

139
docs citations

139
times ranked

23130
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligence, educational attainment, and brain structure in those at familial high risk for schizophrenia or bipolar disorder. Human Brain Mapping, 2022, 43, 414-430.	3.6	14
2	A generative-discriminative framework that integrates imaging, genetic, and diagnosis into coupled low dimensional space. NeuroImage, 2021, 238, 118200.	4.2	2
3	KCNH2-3.1 mediates aberrant complement activation and impaired hippocampal-medial prefrontal circuitry associated with working memory deficits. Molecular Psychiatry, 2020, 25, 206-229.	7.9	13
4	Brain Tau Imaging: Food and Drug Administration Approval of ¹⁸ F-Flortaucipir Injection. Journal of Nuclear Medicine, 2020, 61, 1411-1412.	5.0	26
5	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	12.6	450
6	Tolcapone Treatment for Cognitive and Behavioral Symptoms in Behavioral Variant Frontotemporal Dementia: A Placebo-Controlled Crossover Study. Journal of Alzheimer's Disease, 2020, 75, 1391-1403.	2.6	9
7	Sequence Variation Associated with SLC12A5 Gene Expression Is Linked to Brain Structure and Function in Healthy Adults. Cerebral Cortex, 2019, 29, 4654-4661.	2.9	7
8	Integrated DNA methylation and gene expression profiling across multiple brain regions implicate novel genes in Alzheimer's disease. Acta Neuropathologica, 2019, 137, 557-569.	7.7	73
9	The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. Biological Psychiatry, 2019, 86, 545-556.	1.3	67
10	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	21.4	192
11	Association of a Schizophrenia-Risk Nonsynonymous Variant With Putamen Volume in Adolescents. JAMA Psychiatry, 2019, 76, 435.	11.0	51
12	Schizophrenia polygenic risk score predicts mnemonic hippocampal activity. Brain, 2018, 141, 1218-1228.	7.6	36
13	Genetic risk mechanisms of posttraumatic stress disorder in the human brain. Journal of Neuroscience Research, 2018, 96, 21-30.	2.9	24
14	Late-Onset Alzheimer's Disease Polygenic Risk Profile Score Predicts Hippocampal Function. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 673-679.	1.5	32
15	25. Cortical Information Processing in Patients With Schizophrenia is Modulated by Tolcapone: Role of COMT val158met Genotype. Schizophrenia Bulletin, 2017, 43, S17-S17.	4.3	1
16	Automated Quality Assessment of Structural Magnetic Resonance Brain Images Based on a Supervised Machine Learning Algorithm. Frontiers in Neuroinformatics, 2016, 10, 52.	2.5	66
17	Regional Variations in Brain Gyrfication Are Associated with General Cognitive Ability in Humans. Current Biology, 2016, 26, 1301-1305.	3.9	81
18	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	14.8	213

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19	Seeking Optimal Region-Of-Interest (ROI) Single-Value Summary Measures for fMRI Studies in Imaging Genetics. PLoS ONE, 2016, 11, e0151391.	2.5	38
20	A variable number of tandem repeats in the 3' untranslated region of the dopamine transporter modulates striatal function during working memory updating across the adult age span. European Journal of Neuroscience, 2015, 42, 1912-1918.	2.6	14
21	Going beyond the current neuroinformatics infrastructure. Frontiers in Neuroinformatics, 2015, 9, 15.	2.5	2
22	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
23	Effects of Neuregulin 3 Genotype on Human Prefrontal Cortex Physiology. Journal of Neuroscience, 2014, 34, 1051-1056.	3.6	25
24	Altered Hippocampal-Parahippocampal Function During Stimulus Encoding. JAMA Psychiatry, 2014, 71, 236.	11.0	53
25	WWC1 Genotype Modulates Age-Related Decline in Episodic Memory Function Across the Adult Life Span. Biological Psychiatry, 2014, 75, 693-700.	1.3	28
26	Effect of Tolcapone on Brain Activity During a Variable Attentional Control Task: A Double-Blind, Placebo-Controlled, Counter-Balanced Trial in Healthy Volunteers. CNS Drugs, 2013, 27, 663-673.	5.9	13
27	Dopaminergic therapy removal differentially effects learning in schizophrenia and Parkinson's disease. Schizophrenia Research, 2013, 149, 162-166.	2.0	12
28	Altered Cerebral Response During Cognitive Control: A Potential Indicator of Genetic Liability for Schizophrenia. Neuropsychopharmacology, 2013, 38, 846-853.	5.4	46
29	Effect of Schizophrenia Risk-Associated Alleles in SREB2 (GPR85) on Functional MRI Phenotypes in Healthy Volunteers. Neuropsychopharmacology, 2013, 38, 341-349.	5.4	19
30	DISC1 and SLC12A2 interaction affects human hippocampal function and connectivity. Journal of Clinical Investigation, 2013, 123, 2961-2964.	8.2	30
31	Effective connectivity of AKT1-mediated dopaminergic working memory networks and pharmacogenetics of anti-dopaminergic treatment. Brain, 2012, 135, 1436-1445.	7.6	53
32	Normal aging modulates prefrontoparietal networks underlying multiple memory processes. European Journal of Neuroscience, 2012, 36, 3559-3567.	2.6	26
33	Interactive Effect of Apolipoprotein E Genotype and Age on Hippocampal Activation During Memory Processing in Healthy Adults. Archives of General Psychiatry, 2012, 69, 804.	12.3	51
34	Neurophysiological correlates of age-related changes in working memory updating. NeuroImage, 2012, 62, 2151-2160.	4.2	44
35	The Interleukin 3 Gene (IL3) Contributes to Human Brain Volume Variation by Regulating Proliferation and Survival of Neural Progenitors. PLoS ONE, 2012, 7, e50375.	2.5	33
36	Interactive Effects of DAOA (G72) and Catechol-O-Methyltransferase on Neurophysiology in Prefrontal Cortex. Biological Psychiatry, 2011, 69, 1006-1008.	1.3	33

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37	Selective updating of working memory content modulates meso-cortico-striatal activity. <i>NeuroImage</i> , 2011, 57, 1264-1272.	4.2	92
38	Altered Cortical Network Dynamics. <i>Archives of General Psychiatry</i> , 2011, 68, 1207.	12.3	161
39	Neurogenetic Effects of OXTR rs2254298 in the Extended Limbic System of Healthy Caucasian Adults. <i>Biological Psychiatry</i> , 2011, 70, e37-e39.	1.3	19
40	Genetic Variation in FGF20 Modulates Hippocampal Biology. <i>Journal of Neuroscience</i> , 2010, 30, 5992-5997.	3.6	21
41	Modulatory Effects of Modafinil on Neural Circuits Regulating Emotion and Cognition. <i>Neuropsychopharmacology</i> , 2010, 35, 2101-2109.	5.4	70
42	No Effect of a Common Allelic Variant in the Reelin Gene on Intermediate Phenotype Measures of Brain Structure, Brain Function, and Gene Expression. <i>Biological Psychiatry</i> , 2010, 68, 105-107.	1.3	20
43	Age-related alterations in default mode network: Impact on working memory performance. <i>Neurobiology of Aging</i> , 2010, 31, 839-852.	3.1	444
44	Abnormalities in neural processing of emotional stimuli in Williams syndrome vary according to social vs. non-social content. <i>NeuroImage</i> , 2010, 50, 340-346.	4.2	40
45	Neural Correlates of Probabilistic Category Learning in Patients with Schizophrenia. <i>Journal of Neuroscience</i> , 2009, 29, 1244-1254.	3.6	69
46	Evidence That Altered Amygdala Activity in Schizophrenia Is Related to Clinical State and Not Genetic Risk. <i>American Journal of Psychiatry</i> , 2009, 166, 216-225.	7.2	113
47	Age-related Alterations in Simple Declarative Memory and the Effect of Negative Stimulus Valence. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 1920-1933.	2.3	84
48	A primate-specific, brain isoform of KCNH2 affects cortical physiology, cognition, neuronal repolarization and risk of schizophrenia. <i>Nature Medicine</i> , 2009, 15, 509-518.	30.7	232
49	Catechol-O-Methyltransferase Valine158Methionine Polymorphism Modulates Brain Networks Underlying Working Memory Across Adulthood. <i>Biological Psychiatry</i> , 2009, 66, 540-548.	1.3	45
50	Preferential Amygdala Reactivity to the Negative Assessment of Neutral Faces. <i>Biological Psychiatry</i> , 2009, 66, 847-853.	1.3	60
51	Impact of interacting functional variants in COMT on regional gray matter volume in human brain. <i>NeuroImage</i> , 2009, 45, 44-51.	4.2	120
52	Is Gray Matter Volume an Intermediate Phenotype for Schizophrenia? A Voxel-Based Morphometry Study of Patients with Schizophrenia and Their Healthy Siblings. <i>Biological Psychiatry</i> , 2008, 63, 465-474.	1.3	179
53	Heritability of Brain Morphology Related to Schizophrenia: A Large-Scale Automated Magnetic Resonance Imaging Segmentation Study. <i>Biological Psychiatry</i> , 2008, 63, 475-483.	1.3	134
54	Impact of the Brain-Derived Neurotrophic Factor Val66Met Polymorphism on Levels of Hippocampal N-Acetyl-Aspartate Assessed by Magnetic Resonance Spectroscopic Imaging at 3 Tesla. <i>Biological Psychiatry</i> , 2008, 64, 856-862.	1.3	36

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55	Neurobiology of cognitive aging: Insights from imaging genetics. <i>Biological Psychology</i> , 2008, 79, 9-22.	2.2	65
56	False positives in imaging genetics. <i>NeuroImage</i> , 2008, 40, 655-661.	4.2	107
57	Imaging Genetics of Brain Longevity and Mental Wellness: The Next Frontier?. <i>Radiology</i> , 2008, 246, 20-32.	7.3	29
58	Hierarchical Organization of Human Cortical Networks in Health and Schizophrenia. <i>Journal of Neuroscience</i> , 2008, 28, 9239-9248.	3.6	1,138
59	Genetic variation in AKT1 is linked to dopamine-associated prefrontal cortical structure and function in humans. <i>Journal of Clinical Investigation</i> , 2008, 118, 2200-8.	8.2	159
60	Epistasis between catechol- <i>O</i>-methyltransferase and type II metabotropic glutamate receptor 3 genes on working memory brain function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12536-12541.	7.1	175
61	Allelic Variation in RGS4 Impacts Functional and Structural Connectivity in the Human Brain. <i>Journal of Neuroscience</i> , 2007, 27, 1584-1593.	3.6	98
62	Tolcapone Improves Cognition and Cortical Information Processing in Normal Human Subjects. <i>Neuropsychopharmacology</i> , 2007, 32, 1011-1020.	5.4	219
63	Catechol- <i>O</i>-Methyltransferase Val158Met Modulation of Prefrontalâ€Parietalâ€Striatal Brain Systems during Arithmetic and Temporal Transformations in Working Memory. <i>Journal of Neuroscience</i> , 2007, 27, 13393-13401.	3.6	132
64	Genetic evidence implicating DARPP-32 in human frontostriatal structure, function, and cognition. <i>Journal of Clinical Investigation</i> , 2007, 117, 672-682.	8.2	205
65	A validated network of effective amygdala connectivity. <i>NeuroImage</i> , 2007, 36, 736-745.	4.2	360
66	Complex relationship between BOLD signal and synchronization/desynchronization of human brain MEG oscillations. <i>Human Brain Mapping</i> , 2007, 28, 805-816.	3.6	60
67	Differentiating allocation of resources and conflict detection within attentional control processing. <i>European Journal of Neuroscience</i> , 2007, 25, 594-602.	2.6	33
68	Dissociating the effects of Sternberg working memory demands in prefrontal cortex. <i>Psychiatry Research - Neuroimaging</i> , 2007, 154, 103-114.	1.8	69
69	The G72/G30 Gene Complex and Cognitive Abnormalities in Schizophrenia. <i>Neuropsychopharmacology</i> , 2006, 31, 2022-2032.	5.4	127
70	Neurophysiological correlates of age-related changes in working memory capacity. <i>Neuroscience Letters</i> , 2006, 392, 32-37.	2.1	304
71	Instability of Prefrontal Signal Processing in Schizophrenia. <i>American Journal of Psychiatry</i> , 2006, 163, 1960-1968.	7.2	56
72	Dysfunctional Prefrontal Regional Specialization and Compensation in Schizophrenia. <i>American Journal of Psychiatry</i> , 2006, 163, 1969-1977.	7.2	201

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73	Brain regions underlying response inhibition and interference monitoring and suppression. European Journal of Neuroscience, 2006, 23, 1658-1664.	2.6	195
74	Prefrontal dysfunction in schizophrenia controlling for COMT Val158Met genotype and working memory performance. Psychiatry Research - Neuroimaging, 2006, 147, 221-226.	1.8	53
75	Neural mechanisms of genetic risk for impulsivity and violence in humans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6269-6274.	7.1	793
76	5-HTTLPR polymorphism impacts human cingulate-amygdala interactions: a genetic susceptibility mechanism for depression. Nature Neuroscience, 2005, 8, 828-834.	14.8	1,860
77	Neural correlates of genetically abnormal social cognition in Williams syndrome. Nature Neuroscience, 2005, 8, 991-993.	14.8	325
78	Functional changes in the activity of brain regions underlying emotion processing in the elderly. Psychiatry Research - Neuroimaging, 2005, 139, 9-18.	1.8	130
79	Neural Mechanisms Underlying Probabilistic Category Learning in Normal Aging. Journal of Neuroscience, 2005, 25, 11340-11348.	3.6	95
80	Variation in DISC1 affects hippocampal structure and function and increases risk for schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8627-8632.	7.1	479
81	Effect of Catechol-O-Methyltransferase val158met Genotype on Attentional Control. Journal of Neuroscience, 2005, 25, 5038-5045.	3.6	274
82	Oxytocin Modulates Neural Circuitry for Social Cognition and Fear in Humans. Journal of Neuroscience, 2005, 25, 11489-11493.	3.6	1,431
83	Functional, structural, and metabolic abnormalities of the hippocampal formation in Williams syndrome. Journal of Clinical Investigation, 2005, 115, 1888-1895.	8.2	134
84	Variation in <i>GRM3</i> affects cognition, prefrontal glutamate, and risk for schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12604-12609.	7.1	381
85	Interaction of COMT Val ^{108/158} Met Genotype and Olanzapine Treatment on Prefrontal Cortical Function in Patients With Schizophrenia. American Journal of Psychiatry, 2004, 161, 1798-1805.	7.2	281
86	The Brain-Derived Neurotrophic Factor val66met Polymorphism and Variation in Human Cortical Morphology. Journal of Neuroscience, 2004, 24, 10099-10102.	3.6	807
87	Imaging genetic influences in human brain function. Current Opinion in Neurobiology, 2004, 14, 239-247.	4.2	44
88	Functional lateralization of the sensorimotor cortex in patients with schizophrenia: effects of treatment with olanzapine. Biological Psychiatry, 2004, 56, 190-197.	1.3	69
89	Amphetamine Modulates Human Incentive Processing. Neuron, 2004, 43, 261-269.	8.1	158
90	Neocortical modulation of the amygdala response to fearful stimuli. Biological Psychiatry, 2003, 53, 494-501.	1.3	764

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91	Neuronal pathology in the hippocampal area of patients with bipolar disorder: a study with proton magnetic resonance spectroscopic imaging. <i>Biological Psychiatry</i> , 2003, 53, 906-913.	1.3	191
92	Abnormal fMRI Response of the Dorsolateral Prefrontal Cortex in Cognitively Intact Siblings of Patients With Schizophrenia. <i>American Journal of Psychiatry</i> , 2003, 160, 709-719.	7.2	417
93	Catechol <i>O</i> -methyltransferase <i>Val158Met</i> genotype and individual variation in the brain response to amphetamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6186-6191.	7.1	891
94	Complexity of Prefrontal Cortical Dysfunction in Schizophrenia: More Than Up or Down. <i>American Journal of Psychiatry</i> , 2003, 160, 2209-2215.	7.2	644
95	Brain-Derived Neurotrophic Factor <i>Val66Met</i> Polymorphism Affects Human Memory-Related Hippocampal Activity and Predicts Memory Performance. <i>Journal of Neuroscience</i> , 2003, 23, 6690-6694.	3.6	916
96	Dopamine Modulates the Response of the Human Amygdala: A Study in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2002, 22, 9099-9103.	3.6	261
97	Cortical Systems Associated with Covert Music Rehearsal. <i>NeuroImage</i> , 2002, 16, 901-908.	4.2	87
98	The Amygdala Response to Emotional Stimuli: A Comparison of Faces and Scenes. <i>NeuroImage</i> , 2002, 17, 317-323.	4.2	829
99	Serotonin Transporter Genetic Variation and the Response of the Human Amygdala. <i>Science</i> , 2002, 297, 400-403.	12.6	2,227
100	Dextroamphetamine Modulates the Response of the Human Amygdala. <i>Neuropsychopharmacology</i> , 2002, 27, 1036-1040.	5.4	160
101	The effect of treatment with antipsychotic drugs on brain N-acetylaspartate measures in patients with schizophrenia. <i>Biological Psychiatry</i> , 2001, 49, 39-46.	1.3	158
102	Prefrontal neurons and the genetics of schizophrenia. <i>Biological Psychiatry</i> , 2001, 50, 825-844.	1.3	708
103	Relative Risk of Neurological Signs in Siblings of Patients With Schizophrenia. <i>American Journal of Psychiatry</i> , 2001, 158, 1827-1834.	7.2	95
104	Selective Relationship Between Prefrontal N-Acetylaspartate Measures and Negative Symptoms in Schizophrenia. <i>American Journal of Psychiatry</i> , 2000, 157, 1646-1651.	7.2	108
105	Specific Relationship Between Prefrontal Neuronal N-Acetylaspartate and Activation of the Working Memory Cortical Network in Schizophrenia. <i>American Journal of Psychiatry</i> , 2000, 157, 26-33.	7.2	148
106	Effects of Dextroamphetamine on Cognitive Performance and Cortical Activation. <i>NeuroImage</i> , 2000, 12, 268-275.	4.2	274
107	Technical Solution for an Interactive Functional MR Imaging Examination: Application to a Physiologic Interview and the Study of Cerebral Physiology. <i>Radiology</i> , 1999, 210, 260-268.	7.3	14
108	Organization of the human motor system as studied by functional magnetic resonance imaging. <i>European Journal of Radiology</i> , 1999, 30, 105-114.	2.6	60

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109	The relationship between dorsolateral prefrontal N-acetylaspartate measures and striatal dopamine activity in schizophrenia. <i>Biological Psychiatry</i> , 1999, 45, 660-667.	1.3	106
110	Comparison of 3D BOLD Functional MRI with Spiral Acquisition at 1.5 and 4.0 T. <i>NeuroImage</i> , 1999, 9, 446-451.	4.2	53
111	Changing patterns of brain activation during maze learning. <i>Brain Research</i> , 1998, 793, 29-38.	2.2	42
112	Reproducibility of Proton Magnetic Resonance Spectroscopic Imaging in Patients with Schizophrenia. <i>Neuropsychopharmacology</i> , 1998, 18, 1-9.	5.4	69
113	Functional Magnetic Resonance Imaging Brain Mapping in Psychiatry: Methodological Issues Illustrated in a Study of Working Memory in Schizophrenia. <i>Neuropsychopharmacology</i> , 1998, 18, 186-196.	5.4	293
114	A comparison of fast MR scan techniques for cerebral activation studies at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 61-67.	3.0	63
115	Hemispheric control of motor function: a whole brain echo planar fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 1998, 83, 7-22.	1.8	86
116	Regionally Specific Neuronal Pathology in Untreated Patients with Schizophrenia: A Proton Magnetic Resonance Spectroscopic Imaging Study. <i>Biological Psychiatry</i> , 1998, 43, 641-648.	1.3	191
117	Hippocampal N-acetyl aspartate in unaffected siblings of patients with schizophrenia: a possible intermediate neurobiological phenotype. <i>Biological Psychiatry</i> , 1998, 44, 941-950.	1.3	131
118	Uncoupling Cognitive Workload and Prefrontal Cortical Physiology: A PET rCBF Study. <i>NeuroImage</i> , 1998, 7, 296-303.	4.2	146
119	Quantitation of Regional Cerebral Blood Flow Increases in Prefrontal Cortex during a Working Memory Task: A Steady-State Arterial Spin-Tagging Study. <i>NeuroImage</i> , 1998, 8, 44-49.	4.2	34
120	Common Pattern of Cortical Pathology in Childhood-Onset and Adult-Onset Schizophrenia as Identified by Proton Magnetic Resonance Spectroscopic Imaging. <i>American Journal of Psychiatry</i> , 1998, 155, 1376-1383.	7.2	114
121	Abnormal functional lateralization of the sensorimotor cortex in patients with schizophrenia. <i>NeuroReport</i> , 1997, 8, 2977-2984.	1.2	85
122	Quantitation of Regional Cerebral Blood Flow Increases during Motor Activation: A Steady-State Arterial Spin Tagging Study. <i>NeuroImage</i> , 1997, 6, 104-112.	4.2	61
123	Localized echo-volume imaging methods for functional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 371-375.	3.4	31
124	Correction for vascular artifacts in cerebral blood flow values measured by using arterial spin tagging techniques. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 226-235.	3.0	289
125	Analysis of Interpolation Effects in the Reslicing of Functional MR Images. <i>Journal of Computer Assisted Tomography</i> , 1997, 21, 803-810.	0.9	47
126	fMRI Applications in Schizophrenia Research. <i>NeuroImage</i> , 1996, 4, S118-S126.	4.2	86

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127	Functional Magnetic Resonance Neuroimaging Data Acquisition Techniques. Neurolmage, 1996, 4, S76-S83.	4.2	22
128	Dextroamphetamine Enhances "Neural Network-Specific" Physiological Signals: A Positron-Emission Tomography rCBF Study. Journal of Neuroscience, 1996, 16, 4816-4822.	3.6	147
129	Fast 3D functional magnetic resonance imaging at 1.5 T with spiral acquisition. Magnetic Resonance in Medicine, 1996, 36, 620-626.	3.0	72
130	Functional Mapping of Human Sensorimotor Cortex with 3D BOLD fMRI Correlates Highly with H215O PET rCBF. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 755-764.	4.3	119
131	3D Bolus Tracking with Frequency-Shifted BURST MRI. Journal of Computer Assisted Tomography, 1994, 18, 680-687.	0.9	25
132	Gallbladder Visualization During Technetium-99m RBC Blood Pool Imaging. Clinical Nuclear Medicine, 1988, 13, 515-516.	1.3	5