Frederik De Keyzer

List of Publications by Year in descending order

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123 papers

7,163 citations

50276 46 h-index 83 g-index

124 all docs

124 docs citations

times ranked

124

7374 citing authors

#	Article	IF	CITATIONS
1	Diffusion-weighted MR Imaging of Kidneys in Healthy Volunteers and Patients with Parenchymal Diseases: Initial Experience. Radiology, 2005, 235, 911-917.	7.3	370
2	Head and Neck Squamous Cell Carcinoma: Value of Diffusion-weighted MR Imaging for Nodal Staging. Radiology, 2009, 251, 134-146.	7.3	313
3	Gliomas: Diffusion Kurtosis MR Imaging in Grading. Radiology, 2012, 263, 492-501.	7.3	311
4	Body diffusion kurtosis imaging: Basic principles, applications, and considerations for clinical practice. Journal of Magnetic Resonance Imaging, 2015, 42, 1190-1202.	3.4	274
5	Diffusion-weighted MR Imaging in the Head and Neck. Radiology, 2012, 263, 19-32.	7.3	253
6	Extracranial applications of diffusion-weighted magnetic resonance imaging. European Radiology, 2007, 17, 1385-1393.	4.5	250
7	Detection of head and neck squamous cell carcinoma with diffusion weighted MRI after (chemo)radiotherapy: Correlation between radiologic and histopathologic findings. International Journal of Radiation Oncology Biology Physics, 2007, 67, 960-971.	0.8	248
8	Functional Evaluation of Transplanted Kidneys with Diffusion-weighted and BOLD MR Imaging: Initial Experience. Radiology, 2006, 241, 812-821.	7.3	239
9	METastasis Reporting and Data System for Prostate Cancer: Practical Guidelines for Acquisition, Interpretation, and Reporting of Whole-body Magnetic Resonance Imaging-based Evaluations of Multiorgan Involvement in Advanced Prostate Cancer. European Urology, 2017, 71, 81-92.	1.9	230
10	Dose Painting in Radiotherapy for Head and Neck Squamous Cell Carcinoma: Value of Repeated Functional Imaging with ¹⁸ F-FDG PET, ¹⁸ F-Fluoromisonidazole PET, Diffusion-Weighted MRI, and Dynamic Contrast-Enhanced MRI. Journal of Nuclear Medicine, 2009, 50, 1020-1027.	5.0	200
11	Whole-body MRI with diffusion-weighted sequence for staging of patients with suspected ovarian cancer: a clinical feasibility study in comparison to CT and FDG-PET/CT. European Radiology, 2014, 24, 889-901.	4.5	189
12	Predictive value of diffusion-weighted magnetic resonance imaging during chemoradiotherapy for head and neck squamous cell carcinoma. European Radiology, 2010, 20, 1703-1714.	4.5	182
13	Value of Diffusion-Weighted Magnetic Resonance Imaging for Prediction and Early Assessment of Response to Neoadjuvant Radiochemotherapy in Rectal Cancer: Preliminary Results. International Journal of Radiation Oncology Biology Physics, 2012, 82, 863-870.	0.8	178
14	Diffusion-weighted MRI provides additional value to conventional dynamic contrast-enhanced MRI for detection of hepatocellular carcinoma. European Radiology, 2009, 19, 2456-2466.	4.5	163
15	Effect of Vascular Targeting Agent in Rat Tumor Model: Dynamic Contrast-enhanced versus Diffusion-weighted MR Imaging. Radiology, 2005, 237, 492-499.	7. 3	158
16	Multiparametric MRI for prostate cancer localization in correlation to wholeâ€mount histopathology. Journal of Magnetic Resonance Imaging, 2013, 37, 1392-1401.	3.4	150
17	Diffusion-weighted MR Imaging in Monitoring the Effect of a Vascular Targeting Agent on Rhabdomyosarcoma in Rats. Radiology, 2005, 234, 756-764.	7. 3	147
18	Diffusion-weighted MR Imaging of Native and Transplanted Kidneys. Radiology, 2011, 259, 25-38.	7.3	130

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19	The use of FDG-PET/CT and diffusion-weighted magnetic resonance imaging for response prediction before, during and after preoperative chemoradiotherapy for rectal cancer. Acta Oncológica, 2010, 49, 956-963.	1.8	126
20	Diffusion-Weighted Magnetic Resonance Imaging Early After Chemoradiotherapy to Monitor Treatment Response in Head-and-Neck Squamous Cell Carcinoma. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1098-1107.	0.8	122
21	Diffusion-weighted imaging of the parotid gland: Influence of the choice ofb-values on the apparent diffusion coefficient value. Journal of Magnetic Resonance Imaging, 2004, 20, 786-790.	3.4	104
22	Safety of MR Imaging at 1.5 T in Fetuses: A Retrospective Case-Control Study of Birth Weights and the Effects of Acoustic Noise. Radiology, 2015, 275, 530-537.	7.3	96
23	Fetal Body Volume: Use at MR Imaging to Quantify Relative Lung Volume in Fetuses Suspected of Having Pulmonary Hypoplasia. Radiology, 2006, 241, 847-853.	7.3	95
24	Diagnostic value of whole body diffusion-weighted MRI compared to computed tomography for pre-operative assessment of patients suspected for ovarian cancer. European Journal of Cancer, 2017, 83, 88-98.	2.8	93
25	Integrating pretreatment diffusion weighted MRI into a multivariable prognostic model for head and neck squamous cell carcinoma. Radiotherapy and Oncology, 2014, 110, 429-434.	0.6	90
26	Genitourinary Applications of Diffusion-weighted MR Imaging in the Pelvis. Radiology, 2012, 263, 326-342.	7.3	89
27	Malignant Pleural Disease: Diagnosis by Using Diffusion-weighted and Dynamic Contrast-enhanced MR Imaging—Initial Experience. Radiology, 2012, 263, 884-892.	7.3	87
28	Diffusion-Weighted Magnetic Resonance Imaging to Evaluate Major Salivary Gland Function Before and After Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1365-1371.	0.8	80
29	Whole-body diffusion-weighted MRI for operability assessment in patients with colorectal cancer and peritoneal metastases. Cancer Imaging, 2019, 19, 1.	2.8	80
30	CT Density Measurement and H:H Ratio Are Useful in Diagnosing Acute Cerebral Venous Sinus Thrombosis. American Journal of Neuroradiology, 2013, 34, 1568-1572.	2.4	78
31	Diffusion-weighted MR imaging including bi-exponential fitting for the detection of recurrent or residual tumour after (chemo)radiotherapy for laryngeal and hypopharyngeal cancers. European Radiology, 2013, 23, 562-569.	4.5	76
32	Fetal Body Volume at MR Imaging to Quantify Total Fetal Lung Volume: Normal Ranges. Radiology, 2008, 247, 197-203.	7.3	72
33	Applications of diffusion-weighted magnetic resonance imaging in head and neck squamous cell carcinoma. Neuroradiology, 2010, 52, 773-784.	2.2	68
34	Diffusion-Weighted Magnetic Resonance Imaging Allows Noninvasive In Vivo Monitoring of the Effects of Combretastatin A-4 Phosphate after Repeated Administration. Neoplasia, 2005, 7, 779-787.	5. 3	67
35	Evidence and Patterns in Lung Response after Fetal Tracheal Occlusion: Clinical Controlled Study. Radiology, 2009, 252, 526-533.	7.3	67
36	Integrating diffusion kurtosis imaging, dynamic susceptibility-weighted contrast-enhanced MRI, and short echo time chemical shift imaging for grading gliomas. Neuro-Oncology, 2014, 16, 1010-1021.	1.2	64

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37	Evaluation of the larynx for tumour recurrence by diffusion-weighted MRI after radiotherapy: initial experience in four cases. British Journal of Radiology, 2006, 79, 681-687.	2.2	62
38	Rationale for Modernising Imaging in Advanced Prostate Cancer. European Urology Focus, 2017, 3, 223-239.	3.1	62
39	Diffusion-Weighted Imaging of the Head and Neck in Healthy Subjects: Reproducibility of ADC Values in Different MRI Systems and Repeat Sessions. American Journal of Neuroradiology, 2015, 36, 384-390.	2.4	61
40	Treatment of Rodent Liver Tumor With Combretastatin A4 Phosphate. Investigative Radiology, 2009, 44, 44-53.	6.2	58
41	Diffusion-Weighted MRI for Nodal Staging of Head and Neck Squamous Cell Carcinoma: Impact on Radiotherapy Planning. International Journal of Radiation Oncology Biology Physics, 2010, 76, 761-766.	0.8	57
42	Chemoembolization for Hepatocellular Carcinoma: 1-Month Response Determined with Apparent Diffusion Coefficient Is an Independent Predictor of Outcome. Radiology, 2014, 270, 747-757.	7.3	56
43	Evaluation of semi-quantitative dynamic contrast-enhanced MRI parameters for prostate cancer in correlation to whole-mount histopathology. European Journal of Radiology, 2012, 81, e217-e222.	2.6	55
44	Dynamic contrast-enhanced MRI of the pancreas: Initial results in healthy volunteers and patients with chronic pancreatitis. Journal of Magnetic Resonance Imaging, 2004, 20, 990-997.	3.4	54
45	Renal Oxygenation Changes during Acute Unilateral Ureteral Obstruction: Assessment with Blood Oxygen Level–Dependent MR Imaging—Initial Experience. Radiology, 2008, 247, 754-761.	7.3	54
46	Gustatory Stimulation Changes the Apparent Diffusion Coefficient of Salivary Glands: Initial Experience. Radiology, 2005, 235, 629-634.	7.3	52
47	Diffusionâ€weighted MRI in lungs of normal fetuses and those with congenital diaphragmatic hernia. Ultrasound in Obstetrics and Gynecology, 2009, 34, 678-686.	1.7	49
48	Examining the Relationship between the Lung-to-Head Ratio Measured on Ultrasound and Lung Volumetry by Magnetic Resonance in Fetuses with Isolated Congenital Diaphragmatic Hernia. Fetal Diagnosis and Therapy, 2011, 29, 80-87.	1.4	49
49	Malignant Pleural Mesothelioma: Visual Assessment by Using Pleural Pointillism at Diffusion-weighted MR Imaging. Radiology, 2015, 274, 576-584.	7.3	46
50	Feasibility of whole-body diffusion-weighted MRI for detection of primary tumour, nodal and distant metastases in women with cancer during pregnancy: a pilot study. European Radiology, 2018, 28, 1862-1874.	4.5	46
51	Magnetic resonance imaging of the fetal lung: a pictorial essay. European Radiology, 2008, 18, 1364-1374.	4.5	45
52	Liver Tumor Model with Implanted Rhabdomyosarcoma in Rats: MR Imaging, Microangiography, and Histopathologic Analysis. Radiology, 2006, 239, 554-562.	7. 3	39
53	Whole-body diffusion-weighted magnetic resonance imaging at 3 Tesla for early assessment of treatment response in non-Hodgkin lymphoma: a pilot study. Cancer Imaging, 2013, 13, 53-62.	2.8	36
54	Morphological, functional and metabolic imaging biomarkers: assessment of vascular-disrupting effect on rodent liver tumours. European Radiology, 2010, 20, 2013-2026.	4.5	34

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55	Diffusion-weighted magnetic resonance imaging in neck lymph adenopathy. Cancer Imaging, 2008, 8, 173-180.	2.8	31
56	Cross-sectional Study of Tracheomegaly in Children after Fetal Tracheal Occlusion for Severe Congenital Diaphragmatic Hernia. Radiology, 2010, 257, 226-232.	7.3	31
57	Diffusion weighted imaging in small rodents using clinical MRI scanners. Methods, 2007, 43, 12-20.	3.8	30
58	Diffusionâ€weighted MRI of hepatic tumor in rats: Comparison between in vivo and postmortem imaging acquisitions. Journal of Magnetic Resonance Imaging, 2009, 29, 621-628.	3.4	29
59	Characterisation of solitary pulmonary lesions combining visual perfusion and quantitative diffusion MR imaging. European Radiology, 2014, 24, 531-541.	4.5	28
60	The simulation of 3D mass models in 2D digital mammography and breast tomosynthesis. Medical Physics, 2014, 41, 081913.	3.0	27
61	Dynamic contrast-enhanced and diffusion-weighted MRI for early detection of tumoral changes in single-dose and fractionated radiotherapy: evaluation in a rat rhabdomyosarcoma model. European Radiology, 2009, 19, 2663-2671.	4.5	25
62	Potential Heating Effect in the Gravid Uterus by Using 3-T MR Imaging Protocols: Experimental Study in Miniature Pigs. Radiology, 2016, 279, 754-761.	7.3	24
63	3DUS as an alternative to MRI for measuring renal volume in children with autosomal dominant polycystic kidney disease. Pediatric Nephrology, 2018, 33, 827-835.	1.7	23
64	Reliability of MR Imaging–Based Posterior Fossa and Brain Stem Measurements in Open Spinal Dysraphism in the Era of Fetal Surgery. American Journal of Neuroradiology, 2019, 40, 191-198.	2.4	23
65	Accuracy of whole-body diffusion-weighted MRI (WB-DWI/MRI) in diagnosis, staging and follow-up of gastric cancer, in comparison to CT: a pilot study. BMC Medical Imaging, 2021, 21, 18.	2.7	23
66	Murine liver implantation of radiation-induced fibrosarcoma: characterization with MR imaging, microangiography and histopathology. European Radiology, 2008, 18, 1422-1430.	4.5	22
67	Comparison of digital breast tomosynthesis and 2D digital mammography using a hybrid performance test. Physics in Medicine and Biology, 2015, 60, 3939-3958.	3.0	21
68	T2 quantifications of fetal lungs at MRlâ€normal ranges. Prenatal Diagnosis, 2011, 31, 705-711.	2.3	20
69	Improving lymph node characterization in staging malignant lymphoma using firstâ€order ADC texture analysis from wholeâ€body diffusionâ€weighted MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 897-906.	3.4	19
70	Whole-body diffusion-weighted magnetic resonance imaging in the diagnosis of recurrent ovarian cancer: a clinical feasibility study. British Journal of Radiology, 2016, 89, 20160468.	2.2	18
71	Magnetization transfer analysis of cartilage repair tissue: a preliminary study. Skeletal Radiology, 2006, 35, 903-908.	2.0	17
72	Redefining the target early during treatment. Can we visualize regional differences within the target volume using sequential diffusion weighted MRI?. Radiotherapy and Oncology, 2014, 110, 329-334.	0.6	17

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73	The first study on therapeutic efficacies of a vascular disrupting agent CA4P among primary hepatocellular carcinomas with a full spectrum of differentiation and vascularity: Correlation of MRIâ€microangiographyâ€histopathology in rats. International Journal of Cancer, 2018, 143, 1817-1828.	5.1	17
74	Three-dimensional analysis of implanted magnetic-resonance-visible meshes. International Urogynecology Journal, 2015, 26, 1459-1465.	1.4	16
75	Novel imaging techniques in gynaecological cancer. Current Opinion in Oncology, 2017, 29, 335-342.	2.4	16
76	Enhanced Antitumor Efficacy of a Vascular Disrupting Agent Combined with an Antiangiogenic in a Rat Liver Tumor Model Evaluated by Multiparametric MRI. PLoS ONE, 2012, 7, e41140.	2.5	15
77	Incidence of bowel wall oedema on computed tomography exams and association with diarrhoea in renal cell carcinoma patients treated with sunitinib. European Radiology, 2015, 25, 375-379.	4.5	13
78	Clinical image quality criteria for full field digital mammography: a first practical application. Radiation Protection Dosimetry, 2008, 129, 265-270.	0.8	12
79	Does 11C-choline PET-CT contribute to multiparametric MRI for prostate cancer localisation?. Strahlentherapie Und Onkologie, 2013, 189, 789-795.	2.0	12
80	Functional imaging of the parotid glands using blood oxygenation level dependent (BOLD)â€MRI at 1.5T and 3T. Journal of Magnetic Resonance Imaging, 2008, 27, 43-48.	3.4	11
81	Comparison Between Nonspecific and Necrosis-avid Gadolinium Contrast Agents in Vascular Disrupting Agent-Induced Necrosis of Rodent Tumors at 3.0T. Investigative Radiology, 2011, 46, 531-538.	6.2	11
82	Comparison of two vascular-disrupting agents at a clinically relevant dose in rodent liver tumors with multiparametric magnetic resonance imaging biomarkers. Anti-Cancer Drugs, 2012, 23, 12-21.	1.4	11
83	Tumour-related imaging parameters predicting the percentage of preserved normal renal parenchyma following nephron sparing surgery: a retrospective study. European Radiology, 2013, 23, 280-286.	4.5	11
84	Predicting Therapeutic Efficacy of Vascular Disrupting Agent CA4P in Rats with Liver Tumors by Hepatobiliary Contrast Agent Mn-DPDP-Enhanced MRI. Translational Oncology, 2020, 13, 92-101.	3.7	11
85	Can Apparent Diffusion Coefficient Discriminate Ischemic From Nonischemic Livers? A Pilot Experimental Study. Transplantation Proceedings, 2007, 39, 2643-2646.	0.6	10
86	MR volumetry of the normal fetal kidney: reference values. Prenatal Diagnosis, 2010, 30, 1044-1048.	2.3	10
87	Role and value of diffusion-weighted MRI in the radiotherapeutic management of head and neck cancer. Expert Review of Anticancer Therapy, 2010, 10, 1451-1459.	2.4	10
88	Evaluation and clinical correlation of practical cut-offs for visual rating scales of atrophy: normal aging versus mild cognitive impairment and Alzheimer's disease. Acta Neurologica Belgica, 2017, 117, 661-669.	1.1	9
89	Qualitative and quantitative analysis of diffusion-weighted brain MR imaging in comatose survivors after cardiac arrest. Neuroradiology, 2020, 62, 1361-1369.	2.2	8
90	Micro-HCCs in rats with liver cirrhosis: paradoxical targeting effects with vascular disrupting agent CA4P. Oncotarget, 2017, 8, 55204-55215.	1.8	7

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91	Intra-individual comparison of therapeutic responses to vascular disrupting agent CA4P between rodent primary and secondary liver cancers. World Journal of Gastroenterology, 2018, 24, 2710-2721.	3.3	7
92	Validation of an Improved Patient-Specific Mold Design for Registration of In-vivo MRI and Histology of the Prostate. Lecture Notes in Computer Science, 2016, , 36-43.	1.3	6
93	Prenatal Magnetic Resonance Imaging Demonstrates Linear Growth of the Human Fetal Kidneys During Gestation. Journal of Urology, 2007, 178, 1570-1574.	0.4	5
94	554: Lung response to fetal tracheal occlusion is better prior to 29 weeks than after. American Journal of Obstetrics and Gynecology, 2007, 197, S161.	1.3	5
95	Staging of prostatic carcinoma at 1.5-T MRI: correlation of a simplified MRI exam with whole-mount radical prostatectomy specimens. British Journal of Radiology, 2016, 89, 20160101.	2.2	5
96	Whole-body diffusion-weighted magnetic resonance imaging for the detection of bone metastases and their prognostic impact in metastatic renal cell carcinoma patients treated with angiogenesis inhibitors. Acta Oncol \tilde{A}^3 gica, 2020, 59, 818-824.	1.8	5
97	Computed Tomographic Colonography. Journal of Computer Assisted Tomography, 2008, 32, 504-510.	0.9	4
98	Cancer Modelsâ€"Multiparametric Applications of Clinical MRI in Rodent Hepatic Tumor Model. Methods in Molecular Biology, 2011, 771, 489-507.	0.9	4
99	Morphometric evaluation of traumatic axonal injury and the correlation with post-traumatic cerebral atrophy and functional outcome. Neuroradiology Journal, 2022, 35, 468-476.	1.2	4
100	Comparing breast cancer imaging characteristics of CHEK2 with BRCA1 and BRCA2 gene mutation carriers. European Journal of Radiology, 2022, 146, 110074.	2.6	4
101	Dynamic MR Perfusion Measurements Before and After TIPS in Cirrhotic Patients With Refractory Ascites. Academic Radiology, 2007, 14, 1400-1408.	2.5	3
102	Quantitative Whole-Body Diffusion-weighted MRI after One Treatment Cycle for Aggressive Non-Hodgkin Lymphoma Is an Independent Prognostic Factor of Outcome. Radiology Imaging Cancer, 2021, 3, e200061.	1.6	3
103	TRUS-MR Fusion Biopsy of the Prostate: Radiological and Histological Correlation. Journal of the Belgian Society of Radiology, 2016, 100, 109.	0.2	3
104	Renal and Perfusion Imaging at 3 T. Topics in Magnetic Resonance Imaging, 2010, 21, 157-163.	1.2	2
105	CT volumetry of lumbar vertebral bodies in patients with hypoplasia L5 and bilateral spondylolysis and in normal controls. Neuroradiology, 2012, 54, 839-843.	2.2	2
106	Separate calculation of DW-MRI in assessing therapeutic effect in liver tumors in rats. World Journal of Gastroenterology, 2013, 19, 9092.	3.3	2
107	Development and characterization of a rat brain metastatic tumor model by multiparametric magnetic resonance imaging and histomorphology. Clinical and Experimental Metastasis, 2022, , 1 .	3.3	2
108	Diffusion-weighted MRI of diffuse renal disease and kidney transplant., 0,, 32-45.		1

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109	Imaging and targeted agents in gastrointestinal cancers: overview on perfusion- and diffusion-weighted magnetic resonance imaging and angiogenesis inhibitors. Targeted Oncology, 2008, 3, 101-110.	3.6	1
110	Development, evaluation and application of reperfused liver infarction in rats as a practical model for studying ischemic diseases and screening new drugs. International Journal of Modelling, Identification and Control, 2010, 9, 247.	0.2	1
111	Diffusion-weighted MRI in head and neck cancer: experience to date and future potential. Imaging in Medicine, 2013, 5, 319-331.	0.0	1
112	Imaging Techniques. Medical Radiology, 2020, , 37-64.	0.1	1
113	Comparison of the lung-to-head ratio and fetal lung volume measurement by magnetic resonance imaging (MRI) in fetuses with congenital diaphragmatic hernia (CDH). American Journal of Obstetrics and Gynecology, 2006, 195, S60.	1.3	0
114	404: The rabbit model to perform in-vivo lung measurements by MRI during fetal development. American Journal of Obstetrics and Gynecology, 2008, 199, S122.	1.3	0
115	629: The use of diffusion-weighted MRI to study in-vivo fetal lung maturation in a rabbit model. American Journal of Obstetrics and Gynecology, 2008, 199, S181.	1.3	0
116	Evaluation of Organ Function. Medical Radiology, 2010, , 69-84.	0.1	0
117	332 oral QUANTIFICATION OF DIFFUSION-WEIGHTED MRI FOR TREATMENT RESPONSE ASSESSMENT IN HEAD AND NECK CANCER. Radiotherapy and Oncology, 2011, 99, S132-S133.	0.6	0
118	Imaging Techniques. Medical Radiology, 2011, , 33-54.	0.1	0
119	411: Assessment of the pulmonary response to fetoscopic tracheal occlusion by MRI and ultrasound in fetuses with isolated diaphragmatic hernia. American Journal of Obstetrics and Gynecology, 2011, 204, S166.	1.3	0
120	MP53-04 HOW ACCURATELY CAN WE DETECT SIGNIFICANT PROSTATE CANCER WITH DIFFUSION-WEIGHTED MRI?. Journal of Urology, 2014, 191, .	0.4	0
121	Improving lymph node characterization in staging malignant lymphoma using first-order ADC texture analysis from whole-body diffusion-weighted MRI. Journal of Magnetic Resonance Imaging, 2018, 48, spcone-spcone.	3.4	0
122	EP-2026 Diffusion weighted textural differences between p16 positive and negative oropharyngeal carcinoma. Radiotherapy and Oncology, 2019, 133, S1111-S1112.	0.6	0
123	Whole body diffusion-weighted MRI to predict treatment outcome after one cycle of immunochemotherapy in aggressive non-Hodgkin lymphoma Journal of Clinical Oncology, 2017, 35, 7534-7534.	1.6	0