Mohamed Abou El-Ghar

List of Publications by Year
in descending order

140 papers	3,014 citations	172207 29 h-index	223531 46 g-index
141 all docs	141 docs citations	141 times ranked	2857 citing authors

#	Article	IF	Citations
1	Models and methods for analyzing DCEâ€MRI: A review. Medical Physics, 2014, 41, 124301.	1.6	225
2	Bladder tumour staging: comparison of diffusion- and T2-weighted MR imaging. European Radiology, 2009, 19, 1575-1581.	2.3	141
3	Bladder Cancer: Diagnosis with Diffusion-weighted MR Imaging in Patients with Gross Hematuria. Radiology, 2009, 251, 415-421.	3.6	105
4	Precise Segmentation of 3-D Magnetic Resonance Angiography. IEEE Transactions on Biomedical Engineering, 2012, 59, 2019-2029.	2.5	96
5	Accurate Lungs Segmentation on CT Chest Images by Adaptive Appearance-Guided Shape Modeling. IEEE Transactions on Medical Imaging, 2017, 36, 263-276.	5.4	80
6	Deep Learning Role in Early Diagnosis of Prostate Cancer. Technology in Cancer Research and Treatment, 2018, 17, 153303461877553.	0.8	69
7	Dynamic Contrast-Enhanced MRI-Based Early Detection of Acute Renal Transplant Rejection. IEEE Transactions on Medical Imaging, 2013, 32, 1910-1927.	5.4	59
8	Magnetic Resonance Urethrography in Comparison to Retrograde Urethrography in Diagnosis of Male Urethral Strictures: Is It Clinically Relevant?. European Urology, 2006, 50, 587-594.	0.9	56
9	DIAGNOSIS OF URETERAL OBSTRUCTION IN PATIENTS WITH COMPROMISED RENAL FUNCTION: THE ROLE OF NONINVASIVE IMAGING MODALITIES. Journal of Urology, 2004, 171, 2303-2306.	0.2	55
10	A Novel CNN-Based CAD System for Early Assessment of Transplanted Kidney Dysfunction. Scientific Reports, 2019, 9, 5948.	1.6	54
11	A comprehensive nonâ€invasive framework for automated evaluation of acute renal transplant rejection using DCEâ€MRI. NMR in Biomedicine, 2013, 26, 1460-1470.	1.6	52
12	Role of diffusion-weighted MRI in diagnosis of acute renal allograft dysfunction: a prospective preliminary study. British Journal of Radiology, 2012, 85, e206-e211.	1.0	51
13	Nonoperative Management of Grade 5 Renal Injury in Children: Does It Have a Place?. European Urology, 2010, 57, 154-163.	0.9	49
14	Diffusionâ€weighted magnetic resonance imaging in followâ€up of superficial urinary bladder carcinoma after transurethral resection: initial experience. BJU International, 2012, 110, E622-7.	1.3	49
15	Contrast Enhanced Spiral Computerized Tomography in Live Kidney Donors:: A Single Session for Anatomical and Functional Assessment. Journal of Urology, 2004, 171, 31-34.	0.2	45
16	Automatic analysis of 3D low dose CT images for early diagnosis of lung cancer. Pattern Recognition, 2009, 42, 1041-1051.	5.1	45
17	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 22, 772-783.	1.0	45
18	Kidney Stone Size and Hounsfield Units Predict Successful Shockwave Lithotripsy in Children. Urology, 2013, 81, 880-884.	0.5	44

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19	CONTRAST ENHANCED SPIRAL COMPUTERIZED TOMOGRAPHY IN PATIENTS WITH CHRONIC OBSTRUCTIVE UROPATHY AND NORMAL SERUM CREATININE: A SINGLE SESSION FOR ANATOMICAL AND FUNCTIONAL ASSESSMENT. Journal of Urology, 2004, 172, 985-988.	0.2	40
20	Diffusion-Weighted MR Imaging in Diagnosis of Superficial and Invasive Urinary Bladder Carcinoma: A Preliminary Prospective Study. Scientific World Journal, The, 2008, 8, 364-370.	0.8	40
21	Multidetector Computed Tomography: Role in Determination of Urinary Stones Composition and Disintegration With Extracorporeal Shock Wave Lithotripsyâ€"an in Vitro Study. Urology, 2011, 77, 286-290.	0.5	40
22	3D kidney segmentation from abdominal diffusion MRI using an appearance-guided deformable boundary. PLoS ONE, 2018, 13, e0200082.	1.1	39
23	Computer-Aided Diagnostic System for Early Detection of Acute Renal Transplant Rejection Using Diffusion-Weighted MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 539-552.	2.5	39
24	A comprehensive non-invasive framework for diagnosing prostate cancer. Computers in Biology and Medicine, 2017, 81, 148-158.	3.9	37
25	Towards non-invasive diagnostic techniques for early detection of acute renal transplant rejection: A review. Egyptian Journal of Radiology and Nuclear Medicine, 2017, 48, 257-269.	0.3	36
26	A Kidney Segmentation Framework for Dynamic Contrast Enhanced Magnetic Resonance Imaging. JVC/Journal of Vibration and Control, 2007, 13, 1505-1516.	1.5	34
27	Late renal functional and morphological evaluation after non-operative treatment of high-grade renal injuries in children. BJU International, 2004, 93, 1053-1056.	1.3	33
28	MR urethrogram versus combined retrograde urethrogram and sonourethrography in diagnosis of urethral stricture. European Journal of Radiology, 2010, 74, e193-e198.	1.2	32
29	Transurethral resection of ejaculatory duct in infertile men: outcome and predictors of success. International Urology and Nephrology, 2012, 44, 1623-1630.	0.6	32
30	A new CNN-based system for early diagnosis of prostate cancer. , 2018, , .		29
31	Magnetic resonance imaging as a sole method for the morphological and functional evaluation of live kidney donors. BJU International, 2005, 96, 111-116.	1.3	28
32	Shape-Appearance Guided Level-Set Deformable Model for Image Segmentation. , 2010, , .		28
33	False Penile Fracture: Value of Different Diagnostic Approaches and Long-term Outcome of Conservative and Surgical Management. Urology, 2010, 75, 1353-1356.	0.5	28
34	A diffusion-weighted imaging based diagnostic system for early detection of prostate cancer. Journal of Biomedical Science and Engineering, 2013, 06, 346-356.	0.2	28
35	Predictors of Success after Extracorporeal Shock Wave Lithotripsy (ESWL) for Renal Calculi Between 20â€"30 mm: A Multivariate Analysis Model. Scientific World Journal, The, 2006, 6, 2388-2395.	0.8	27
36	Are there longâ€term effects of extracorporeal shockwave lithotripsy in paediatric patients?. BJU International, 2013, 111, 666-671.	1.3	27

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37	Automatic Detection of 2D and 3D Lung Nodules in Chest Spiral CT Scans. International Journal of Biomedical Imaging, 2013, 2013, 1-11.	3.0	27
38	Computer-aided diagnostic tool for early detection of prostate cancer. , 2016, , .		26
39	Role of AI and Histopathological Images in Detecting Prostate Cancer: A Survey. Sensors, 2021, 21, 2586.	2.1	26
40	Quantitative Nodule Detection in Low Dose Chest CT Scans: New Template Modeling and Evaluation for CAD System Design. Lecture Notes in Computer Science, 2005, 8, 720-728.	1.0	25
41	Risk factors of erectile dysfunction and penile vascular changes after surgical repair of penile fracture. International Journal of Impotence Research, 2012, 24, 20-25.	1.0	25
42	Radiological diagnosis of vesicouterine fistula: Role of magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2012, 36, 438-442.	1.9	25
43	<I>In-Vitro</I> and <I>In-Vivo</I> Diagnostic Techniques for Prostate Cancer: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2747-2777.	0.5	24
44	A level set-based framework for 3D kidney segmentation from diffusion MR images. , 2015, , .		24
45	Imaging of Bladder Cancer: Standard Applications and Future Trends. Medicina (Lithuania), 2021, 57, 220.	0.8	24
46	CT and MRI in Urinary Tract Infections: A Spectrum of Different Imaging Findings. Medicina (Lithuania), 2021, 57, 32.	0.8	24
47	Role of multiphasic helical computed tomography in planning surgical treatment for pelvi-ureteric junction obstruction. BJU International, 2004, 94, 582-587.	1.3	23
48	Elastic phantoms generated by microfluidics technology: Validation of an imaged€based approach for accurate measurement of the growth rate of lung nodules. Biotechnology Journal, 2011, 6, 195-203.	1.8	23
49	A Framework for Automatic Segmentation of Lung Nodules from Low Dose Chest CT Scans. , 2006, , .		22
50	Extracorporeal shock-wave lithotripsy monotherapy of partial staghorn calculi. Scandinavian Journal of Urology and Nephrology, 2006, 40, 320-325.	1.4	21
51	A New CAD System for Early Diagnosis of Detected Lung Nodules. , 2007, , .		20
52	A novel shape-based diagnostic approach for early diagnosis of lung nodules. , 2011, , .		20
53	A novel framework for automatic segmentation of kidney from DW-MRI. , 2015, , .		19
54	Magnetic resonance imaging in the evaluation of pelvi-ureteric junction obstruction: an all-in-one approach. BJU International, 2007, 99, 641-645.	1.3	18

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55	Evaluation of a synchronous twin‐pulse technique for shock wave lithotripsy: a prospective randomized study of effectiveness and safety in comparison to standard single‐pulse technique. BJU International, 2008, 101, 1420-1426.	1.3	18
56	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 14, 175-182.	1.0	18
57	Long‐term functional and morphological outcome after pyeloplasty for huge renal pelvis. BJU International, 2011, 107, 829-833.	1.3	17
58	A new deformable model-based segmentation approach for accurate extraction of the kidney from abdominal CT images. , 2011, , .		17
59	A kidney segmentation approach from DCE-MRI using level sets. , 2008, , .		16
60	Appearance analysis for diagnosing malignant lung nodules. , 2010, , .		16
61	Giant Seminal Vesicle Cyst Causing Ipsilateral Hydronephrosis With Contralateral Renal Agenesis. Urology, 2012, 79, e17-e18.	0.5	16
62	Image Analysis of Renal DCE MRI for the Detection of Acute Renal Rejection. , 2006, , .		15
63	A new NMF-autoencoder based CAD system for early diagnosis of prostate cancer. , 2016, , .		15
64	Statistical analysis of ADCs and clinical biomarkers in detecting acute renal transplant rejection. British Journal of Radiology, 2017, 90, 20170125.	1.0	15
65	A multimodal computer‐aided diagnostic system for precise identification of renal allograft rejection: Preliminary results. Medical Physics, 2020, 47, 2427-2440.	1.6	15
66	Precise Identification of Prostate Cancer from DWI Using Transfer Learning. Sensors, 2021, 21, 3664.	2.1	15
67	MRI in patients with chronic obstructive uropathy and compromised renal function: a sole method for morphological and functional assessment. British Journal of Radiology, 2008, 81, 624-629.	1.0	14
68	Early assessment of malignant lung nodules based on the spatial analysis of detected lung nodules. , 2012, , .		14
69	Chemoprophylaxis during transrectal prostate needle biopsy: critical analysis through randomized clinical trial. World Journal of Urology, 2018, 36, 1845-1852.	1.2	14
70	A novel image analysis approach for accurate identification of acute renal rejection. , 2008, , .		13
71	Adrenal Tumors with Venous Thrombosis: A Single-Institution Experience. Urologia Internationalis, 2011, 87, 182-185.	0.6	13
72	Appearance-based diagnostic system for early assessment of malignant lung nodules. , 2012, , .		13

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73	DWI-MRI: Single, Informative, and Noninvasive Technique for Prostate Cancer Diagnosis. Scientific World Journal, The, 2012, 2012, 1-5.	0.8	12
74	A new non-invasive approach for early classification of renal rejection types using diffusion-weighted MRI. , 2016, , .		12
75	3D diffusion MRI-based CAD system for early diagnosis of acute renal rejection. , 2016, , .		12
76	Dynamic Contrast-Enhanced Magnetic Resonance Imaging as a Diagnostic Tool in the Assessment of Tumour Angiogenesis in Urinary Bladder Cancer. Canadian Association of Radiologists Journal, 2019, 70, 254-263.	1.1	12
77	Ectopic insertion of the ureter into the seminal vesicle. World Journal of Radiology, 2013, 5, 349.	0.5	12
78	A Novel Approach for Automatic Follow-Up of Detected Lung Nodules. , 2007, , .		11
79	Characterization of Solid Renal Masses using 64-Slice Multidetector CT Scanner. Scientific World Journal, The, 2009, 9, 441-448.	0.8	11
80	Low-dose unenhanced computed tomography for diagnosing stone disease in obese patients. Arab Journal of Urology Arab Association of Urology, 2012, 10, 279-283.	0.7	11
81	A Novel ADCs-Based CNN Classification System for Precise Diagnosis of Prostate Cancer. , 2018, , .		11
82	A Novel 3D Joint Markov-Gibbs Model for Extracting Blood Vessels from PC–MRA Images. Lecture Notes in Computer Science, 2009, 12, 943-950.	1.0	11
83	Toward Early Diagnosis of Lung Cancer. Lecture Notes in Computer Science, 2009, 12, 682-689.	1.0	11
84	A Deep Learning Pipeline for Grade Groups Classification Using Digitized Prostate Biopsy Specimens. Sensors, 2021, 21, 6708.	2.1	11
85	Use of Magnetic Resonance Angiography in Diagnosis and Decision Making of Post-Traumatic, High-Flow Priapism. Scientific World Journal, The, 2008, 8, 176-181.	0.8	10
86	A novel image-based approach for early detection of prostate cancer. , 2012, , .		10
87	An ISO-surfaces based local deformation handling framework of lung tissues. , 2016, , .		10
88	A randomised controlled trial evaluating renal protective effects of selenium with vitamins A, C, E, verapamil, and losartan against extracorporeal shockwave lithotripsy–induced renal injury. BJU International, 2017, 119, 142-147.	1.3	10
89	Promising results for early diagnosis of lung cancer. , 2008, , .		9
90	Anatomic Predictors of Formation of Lower Caliceal Calculi: Is It the Time for Three-Dimensional Computed Tomography Urography?. Journal of Endourology, 2008, 22, 2175-2180.	1.1	9

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91	A Novel Approach for Global Lung Registration Using 3D Markov-Gibbs Appearance Model. Lecture Notes in Computer Science, 2012, 15, 114-121.	1.0	9
92	A New Framework for Precise Identification of Prostatic Adenocarcinoma. Sensors, 2022, 22, 1848.	2.1	9
93	Single-layer small intestinal submucosa or tunica vaginalis flap for correcting penile chordee. BJU International, 2004, 94, 1097-1101.	1.3	8
94	Probabilistic Modeling of Blood Vessels for Segmenting MRA Images. , 2006, , .		8
95	Non-Invasive Image-Based Approach for Early Detection of Prostate Cancer. , 2011, , .		8
96	Adrenal Hemangioma: Findings at Multidetector CT with Short Review of the Literature. Case Reports in Radiology, 2011, 2011, 1-3.	0.5	8
97	A new 3D automatic segmentation framework for accurate segmentation of prostate from DCE-MRI. , 2011, , .		8
98	Evaluation of CT perfusion parameters for assessment of split renal function in healthy donors. Egyptian Journal of Radiology and Nuclear Medicine, 2016, 47, 1681-1688.	0.3	8
99	Image-Based Computer-Aided Diagnostic System for Early Diagnosis of Prostate Cancer. Lecture Notes in Computer Science, 2016, , 610-618.	1.0	8
100	Noncontrast computed tomography in obstructive anuria: a prospective study. Urology, 2002, 59, 861-864.	0.5	7
101	A new validation approach for the growth rate measurement using elastic phantoms generated by state-of-the-art microfluidics technology. , 2010, , .		7
102	A new 3D automatic segmentation framework for accurate extraction of prostate from diffusion imaging. , 2011, , .		7
103	3D automatic approach for precise segmentation of the prostate from Diffusion-Weighted Magnetic Resonance Imaging. , 2011, , .		7
104	Can Computerized Tomography Accurately Stage Childhood Renal Tumors?. Journal of Urology, 2014, 192, 194-199.	0.2	7
105	Clinical predictive factors of sildenafil response: a penile hemodynamic study. Andrology, 2015, 3, 241-246.	1.9	7
106	A generalized MRI-based CAD system for functional assessment of renal transplant. , 2017, , .		7
107	A New 3D CNN-based CAD System for Early Detection of Acute Renal Transplant Rejection. , 2018, , .		7
108	Cloacal Duplication: Single-center Experience in the Management of a Rare Anomaly. Urology, 2017, 108, 171-174.	0.5	5

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109	Fuzzy Membership-Driven Level Set for Automatic Kidney Segmentation from DCE-MRI. , 2018, , .		5
110	Impact of Pre-operative MRI-measured Membranous Urethral Length on Urinary Continence after Radical Cystectomy and Orthotopic Substitution: Clinical and Urodynamic Evaluation. International Urology and Nephrology, 2007, 39, 149-154.	0.6	4
111	3D joint Markov-Gibbs model for segmenting the blood vessels from MRA. , 2009, , .		4
112	Diagnosis and Treatment of Adrenal Tumors: A Single-Center Experience with 238 Cases. Urologia Internationalis, 2009, 83, 433-437.	0.6	4
113	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
114	Diagnosing urinary tract abnormalities: intravenous urography or CT urography?. Reports in Medical Imaging, 0, , 55.	0.8	4
115	Evaluation of Acute Post-Shock Wave Lithotripsy Renal Changes by Dynamic Magnetic Resonance Imaging: A Prospective Clinical Study. Journal of Urology, 2014, 192, 1705-1709.	0.2	4
116	A Novel CAD System for Detecting Acute Rejection of Renal Allografts Based on Integrating Imaging-markers and Laboratory Biomarkers. , 2018, , .		4
117	A New Fast Framework for Early Detection of Prostate Cancer Without Prostate Segmentation. , 2018, , .		4
118	Detecting Prostate Cancer Using A CNN-Based System Without Segmentation. , 2019, , .		4
119	Fast, Accurate Unsupervised Segmentation of 3D Magnetic Resonance Angiography. , 2011, , 411-432.		4
120	Experiments on Sensitivity of Template Matching for Lung Nodule Detection in Low Dose CT Scans. , 2007, , .		3
121	Segmentationof pathological lungs from CT chest images. , 2015, , .		3
122	Role of diffusion weighted MR imaging in characterization of focal kidney and upper urinary tract lesions. Egyptian Journal of Radiology and Nuclear Medicine, 2016, 47, 1689-1700.	0.3	3
123	Early Assessment of Acute Renal Rejection Post-transplantation: A Combined Imaging and Clinical Biomarkers Protocol. , 2018, , .		3
124	Detecting and Localizing Prostate Cancer from Diffusion-Weighted Magnetic Resonance Imaging. , 2019, , .		3
125	Fast Unsupervised Segmentation of 3D Magnetic Resonance Angiography. , 2006, , .		2
126	A New Shape-Based Segmentation Approach for the DCE-MRI Kidney Images. , 2007, , .		2

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127	Osteonecrosis in kidney recipients: has hypocalcaemia a role?. Rheumatology International, 2009, 30, 75-79.	1.5	2
128	Computer aided detection of acute renal allograft dysfunction using dynamic contrast enhanced MRI. Egyptian Journal of Radiology and Nuclear Medicine, 2011, 42, 443-449.	0.3	2
129	Efficacy, Complications and Long-Term Outcomes of Selective Arterial Embolization of Symptomatic Giant Renal Angiomyolipoma. Current Urology, 2011, 5, 179-184.	0.4	2
130	A Computer-Aided System for Prostate Cancer Diagnosis. , 2018, , .		2
131	An Accurate System for Prostate Cancer Localization from Diffusion-Weighted MRI. , 2019, , .		2
132	Static T2w MRU in Noncalcular Urinary Obstruction: Comparison of Its Two Techniques. Scientific World Journal, The, 2008, 8, 454-462.	0.8	1
133	Re: MR Urethrogram Versus Combined Retrograde Urethrogram and Sonourethrography in Diagnosis of Urethral Stricture. Journal of Urology, 2011, 186, 586-587.	0.2	1
134	Assessment of acute renal allograft dysfunction by MRI diffusion techniques. Egyptian Journal of Radiology and Nuclear Medicine, 2018, 49, 1131-1139.	0.3	1
135	Role of MR renography in the evaluation of acute upper urinary tract obstruction. Egyptian Journal of Radiology and Nuclear Medicine, 2011, 42, 243-248.	0.3	0
136	Reply by the Authors. Urology, 2013, 82, 491-492.	0.5	0
137	Reply by the Authors. Urology, 2013, 82, 255-256.	0.5	0
138	Early identification of acute rejection for renal allografts: a machine learning approach. , 2021, , 197-218.		0
139	Accurate identification of renal transplant rejection: convolutional neural networks and diffusion MRI. , 2021, , 91-115.		0
140	A Computer-Aided System for Prostate Cancer Diagnosis. , 2018, , .		0