Derek W Cool

List of Publications by Year
in descending order

26	461	933264 10	713332 21
papers	citations	h-index	g-index

26	26	26	616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanically assisted 3D ultrasound guided prostate biopsy system. Medical Physics, 2008, 35, 5397-5410.	1.6	116
2	Evaluation of MRI-TRUS Fusion Versus Cognitive Registration Accuracy for MRI-Targeted, TRUS-Guided Prostate Biopsy. American Journal of Roentgenology, 2015, 204, 83-91.	1.0	80
3	2D-3D rigid registration to compensate for prostate motion during 3D TRUS-guided biopsy. Medical Physics, 2013, 40, 022904.	1.6	48
4	Magnetic resonance imaging-targeted, 3D transrectal ultrasound-guided fusion biopsy for prostate cancer: Quantifying the impact of needle delivery error on diagnosis. Medical Physics, 2014, 41, 073504.	1.6	32
5	Toward Prostate Cancer Contouring Guidelines on Magnetic Resonance Imaging: Dominant Lesion Gross and Clinical Target Volume Coverage Via Accurate Histology Fusion. International Journal of Radiation Oncology Biology Physics, 2016, 96, 188-196.	0.4	26
6	Automatic Radiofrequency Ablation Planning for Liver Tumors With Multiple Constraints Based on Set Covering. IEEE Transactions on Medical Imaging, 2020, 39, 1459-1471.	5.4	22
7	Effect of dataset size, image quality, and image type on deep learning-based automatic prostate segmentation in 3D ultrasound. Physics in Medicine and Biology, 2022, 67, 074002.	1.6	21
8	Comparison of prostate MRI-3D transrectal ultrasound fusion biopsy for first-time and repeat biopsy patients with previous atypical small acinar proliferation. Canadian Urological Association Journal, 2016, 10, 342.	0.3	19
9	Spatially varying accuracy and reproducibility of prostate segmentation in magnetic resonance images using manual and semiautomated methods. Medical Physics, 2014, 41, 113503.	1.6	16
10	Radiofrequency Ablation of T1a Renal Cell Carcinomas within Renal Transplant Allografts: Oncologic Outcomes and GraftÂViability. Journal of Vascular and Interventional Radiology, 2017, 28, 1658-1663.	0.2	13
11	Fusion of MRI to 3D TRUS for Mechanically-Assisted Targeted Prostate Biopsy: System Design and Initial Clinical Experience. Lecture Notes in Computer Science, 2011, , 121-133.	1.0	10
12	Percutaneous Ultrasound Gastrostomy: First-in-Human Experience with the PUMA-G System. Journal of Vascular and Interventional Radiology, 2020, 31, 808-811.	0.2	8
13	Multiple objective planning for thermal ablation of liver tumors. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1775-1786.	1.7	7
14	Development of a Multi-objective Optimized Planning Method for Microwave Liver Tumor Ablation. Lecture Notes in Computer Science, 2019, , 110-118.	1.0	7
15	A comparison of prostate tumor targeting strategies using magnetic resonance imagingâ€targeted, transrectal ultrasoundâ€guided fusion biopsy. Medical Physics, 2018, 45, 1018-1028.	1.6	6
16	Prostate lesion delineation from multiparametric magnetic resonance imaging based on locality alignment discriminant analysis. Medical Physics, 2018, 45, 4607-4618.	1.6	6
17	Percutaneous ultrasound gastrostomy (PUG): first prospective clinical trial. Abdominal Radiology, 2021, 46, 5377-5385.	1.0	5
18	Evaluating the utility of intraprocedural 3D TRUS image information in guiding registration for displacement compensation during prostate biopsy. Medical Physics, 2014, 41, 082901.	1.6	4

#	Article	IF	Citations
19	Postediting prostate magnetic resonance imaging segmentation consistency and operator time using manual and computer-assisted segmentation: multiobserver study. Journal of Medical Imaging, 2016, 3, 046002.	0.8	3
20	Prostate lesion detection and localization based on locality alignment discriminant analysis. Proceedings of SPIE, 2017, , .	0.8	3
21	A self-tuned graph-based framework for localization and grading prostate cancer lesions: An initial evaluation based on multiparametric magnetic resonance imaging. Computers in Biology and Medicine, 2018, 96, 252-265.	3.9	3
22	A multiobserver study investigating the effectiveness of prostatic multiparametric magnetic resonance imaging to dose escalate corresponding histologic lesions using high-dose-rate brachytherapy. Brachytherapy, 2021, 20, 601-610.	0.2	3
23	Multiparametric MR imaging of prostate cancer foci: assessing the detectability and localizability of Gleason 7 peripheral zone cancers based on image contrasts. , 2014, , .		1
24	Optimizing MRI-targeted fusion prostate biopsy: the effect of systematic error and anisotropy on tumor sampling. , 2015, , .		1
25	Targeting prostate lesions on multiparametric MRI with HDR brachytherapy: Optimal planning margins determined using whole-mount digital histology. Brachytherapy, 2022, , .	0.2	1
26	Successful percutaneous transgastric diversion of a chronic post-operative combined pancreaticocutaneous and gastrocutaneous fistula using a snare-target technique: A case report. International Journal of Surgery Case Reports, 2021, 80, 105685.	0.2	0