Hessel Wijkstra

List of Publications by Citations

256 papers	5,866 citations	41 h-index	64 g-index
317 ext. papers	6,953 ext. citations	3.8 avg, IF	5.49 L-index

#	Paper	IF	Citations
256	The EFSUMB Guidelines and Recommendations for the Clinical Practice of Contrast-Enhanced Ultrasound (CEUS) in Non-Hepatic Applications: Update 2017 (Long Version). *Ultraschall in Der Medizin*, **2018**, 39, e2-e44	3.8	346
255	Diagnostic accuracy of noninvasive tests to evaluate bladder outlet obstruction in men: detrusor wall thickness, uroflowmetry, postvoid residual urine, and prostate volume. *European Urology*, **2007**, 52, 827-34	10.2	152
254	Focal therapy in prostate cancer-report from a consensus panel. *Journal of Endourology*, **2010**, 24, 775-80	2.7	145
253	The EFSUMB Guidelines and Recommendations for the Clinical Practice of Contrast-Enhanced Ultrasound (CEUS) in Non-Hepatic Applications: Update 2017 (Short Version). *Ultraschall in Der Medizin*, **2018**, 39, 154-180	3.8	136
252	Age and bladder outlet obstruction are independently associated with detrusor overactivity in patients with benign prostatic hyperplasia. *European Urology*, **2008**, 54, 419-26	10.2	129
251	Angiogenesis in prostate cancer: onset, progression and imaging. *BJU International*, **2012**, 110, E794-808	5.6	121
250	Contrast-enhanced three-dimensional power Doppler angiography of the human prostate: correlation with biopsy outcome. *Urology*, **1999**, 54, 97-104	1.6	118
249	Contrast-enhanced ultrasound and prostate cancer; a multicentre European research coordination project. *European Urology*, **2008**, 54, 982-92	10.2	95
248	Ultrasound measurement of detrusor wall thickness in healthy adults. *Neurourology and Urodynamics*, **2006**, 25, 308-17; discussion 318	2.3	91
247	Contrast-ultrasound diffusion imaging for localization of prostate cancer. *IEEE Transactions on Medical Imaging*, **2011**, 30, 1493-502	11.7	85
246	First-in-Human Ultrasound Molecular Imaging With a VEGFR2-Specific Ultrasound Molecular Contrast Agent (BR55) in Prostate Cancer: A Safety and Feasibility Pilot Study. *Investigative Radiology*, **2017**, 52, 419-427	10.1	83
245	Microvessel density: correlation between contrast ultrasonography and histology of prostate cancer. *European Urology*, **2001**, 40, 285-93	10.2	83
244	The value of magnetic resonance imaging and ultrasonography (MRI/US)-fusion biopsy platforms in prostate cancer detection: a systematic review. *BJU International*, **2016**, 117, 392-400	5.6	77
243	Transrectal ultrasound of the prostate: innovations and future applications. *Journal of Urology*, **1998**, 159, 1568-79	2.5	75
242	Follow-up modalities in focal therapy for prostate cancer: results from a Delphi consensus project. *World Journal of Urology*, **2015**, 33, 1503-9	4	73
241	Quantitative microbubble enhanced transrectal ultrasound as a tool for monitoring hormonal treatment of prostate carcinoma. *Prostate*, **2002**, 51, 256-67	4.2	73
240	Multiparametric ultrasound in the detection of prostate cancer: a systematic review. *World Journal of Urology*, **2015**, 33, 1651-9	4	72

239	Clinical Diagnosis of Bladder Outlet Obstruction in Patients with Benign Prostatic Enlargement and Lower Urinary Tract Symptoms: Development and Urodynamic Validation of a Clinical Prostate Score for the Objective Diagnosis of Bladder Outlet Obstruction. *Journal of Urology*, **1996**, 155, 1649-1654	2.5	72
238	Results of the Treatment of Neurogenic Bladder Dysfunction in Spinal Cord Injury by Sacral Posterior Root Rhizotomy and Anterior Sacral Root Stimulation. *Journal of Urology*, **1996**, 155, 1378-1381	2.5	68
237	The role of magnetic resonance imaging (MRI) in focal therapy for prostate cancer: recommendations from a consensus panel. *BJU International*, **2014**, 113, 218-27	5.6	63
236	Selective stimulation of sacral nerve roots for bladder control: a study by computer modeling. *IEEE Transactions on Biomedical Engineering*, **1994**, 41, 413-24	5	63
235	Contrast-ultrasound dispersion imaging for prostate cancer localization by improved spatiotemporal similarity analysis. *Ultrasound in Medicine and Biology*, **2013**, 39, 1631-41	3.5	61
234	Penile Duplex Pharmaco-Ultrasonography Revisited: Revalidation of the Parameters of the Cavernous Arterial Response. *Journal of Urology*, **2003**, 169, 216-220	2.5	61
233	Analysis of ultrasonographic prostate images for the detection of prostatic carcinoma: the automated urologic diagnostic expert system. *Ultrasound in Medicine and Biology*, **1994**, 20, 1-10	3.5	61
232	Urinary bladder control by electrical stimulation: review of electrical stimulation techniques in spinal cord injury. *Neurourology and Urodynamics*, **1997**, 16, 39-53	2.3	60
231	Three-dimensional contrast-enhanced power Doppler ultrasonography and conventional examination methods: the value of diagnostic predictors of prostate cancer. *BJU International*, **2000**, 86, 58-64	5.6	57
230	Role of transrectal ultrasonography (TRUS) in focal therapy of prostate cancer: report from a Consensus Panel. *BJU International*, **2012**, 110, 942-8	5.6	56
229	The correlation between prostate volume, transition zone volume, transition zone index and clinical and urodynamic investigations in patients with lower urinary tract symptoms. *BJU International*, **1997**, 80, 84-90	5.6	55
228	Selective Detrusor Activation By Electrical Sacral Nerve Root Stimulation in Spinal Cord Injury. *Journal of Urology*, **1997**, 157, 1504-1508	2.5	52
227	The application of three-dimensional contrast-enhanced ultrasound to measure volume of affected tissue after HIFU treatment for localized prostate cancer. *European Urology*, **2000**, 37, 559-68	10.2	52
226	Variability of Pressure-Flow Analysis Parameters in Repeated Cystometry in Patients with Benign Prostatic Hyperplasia. *Journal of Urology*, **1995**, 153, 1520-1525	2.5	52
225	A practical clinical method for contour determination in ultrasonographic prostate images. *Ultrasound in Medicine and Biology*, **1994**, 20, 705-17	3.5	52
224	alpha-Blockade improves symptoms suggestive of bladder outlet obstruction but fails to relieve it. *Journal of Urology*, **2001**, 165, 38-41	2.5	51
223	Angiogenesis imaging by spatiotemporal analysis of ultrasound contrast agent dispersion kinetics. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 621-9	3.2	49
222	Edge detection in prostatic ultrasound images using integrated edge maps. *Ultrasonics*, **1998**, 36, 635-42	3.5	49

221	MRI and contrast-enhanced ultrasound imaging for evaluation of focal irreversible electroporation treatment: results from a phase I-II study in patients undergoing IRE followed by radical prostatectomy. *European Radiology*, **2016**, 26, 2252-60	8	46
220	Current status of transrectal ultrasound techniques in prostate cancer. *Current Opinion in Urology*, **2012**, 22, 297-302	2.8	46
219	The value of dynamic contrast enhanced power Doppler ultrasound imaging in the localization of prostate cancer. *European Urology*, **2003**, 43, 124-31	10.2	44
218	Is detrusor instability in elderly males related to the grade of obstruction?. *Neurourology and Urodynamics*, **1995**, 14, 625-33	2.3	44
217	The correlation between the electrode configuration and histopathology of irreversible electroporation ablations in prostate cancer patients. *World Journal of Urology*, **2016**, 34, 657-64	4	42
216	The role of nocturia in the quality of life of men with lower urinary tract symptoms. *BJU International*, **2010**, 105, 1141-6	5.6	42
215	Novel contrast-enhanced ultrasound imaging in prostate cancer. *World Journal of Urology*, **2011**, 29, 581-7	4	41
214	Follow-up of renal masses after cryosurgery using computed tomography; enhancement patterns and cryolesion size. *BJU International*, **2008**, 101, 1237-42	5.6	41
213	Urodynamic effects of alpha-adrenoceptor blockers: a review of clinical trials. *Urology*, **2003**, 62, 1-9	1.6	41
212	The safety and efficacy of irreversible electroporation for the ablation of prostate cancer: a multicentre prospective human in vivo pilot study protocol. *BMJ Open*, **2014**, 4, e006382	3	40
211	The Correlation Between Urodynamic and Cystoscopic Findings in Elderly Men with Voiding Complaints. *Journal of Urology*, **1996**, 155, 1018-1022	2.5	40
210	Spatiotemporal correlation of ultrasound contrast agent dilution curves for angiogenesis localization by dispersion imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2013**, 60, 2665-9	3.2	38
209	Role of multiparametric magnetic resonance imaging (MRI) in focal therapy for prostate cancer: a Delphi consensus project. *BJU International*, **2014**, 114, 698-707	5.6	38
208	Improved reliability of uroflowmetry investigations: results of a portable home-based uroflowmetry study. *BJU International*, **1996**, 78, 385-90	5.6	36
207	Advanced diagnostics in renal mass using optical coherence tomography: a preliminary report. *Journal of Endourology*, **2011**, 25, 311-5	2.7	35
206	Intradural sacral rhizotomies and implantation of an anterior sacral root stimulator in the treatment of neurogenic bladder dysfunction after spinal cord injury. *World Journal of Urology*, **1991**, 9, 126-132	4	35
205	Selective sacral root stimulation for bladder control: acute experiments in an animal model. *Journal of Urology*, **1994**, 151, 1674-9	2.5	34
204	Contrast specific imaging in the detection and localization of prostate cancer. *World Journal of Urology*, **2004**, 22, 346-50	4	33

203	Reproducibility of prostate volume measurements from transrectal ultrasonography by an automated and a manual technique. *British Journal of Urology*, **1996**, 78, 219-23		33
202	Dynamic contrast-enhanced ultrasound parametric imaging for the detection of prostate cancer. *BJU International*, **2016**, 117, 598-603	5.6	33
201	Optimizing prostate cancer detection: 8 versus 12-core biopsy protocol. *Journal of Urology*, **2009**, 182, 1329-36	2.5	32
200	Ultrasound-contrast-agent dispersion and velocity imaging for prostate cancer localization. *Medical Image Analysis*, **2017**, 35, 610-619	15.4	31
199	Ultrasound imaging and contrast agents: a safe alternative to MRI?. *Minimally Invasive Therapy and Allied Technologies*, **2006**, 15, 93-100	2.1	31
198	Ultrasonography of renal masses using contrast pulse sequence imaging: a pilot study. *Journal of Endourology*, **2007**, 21, 466-72	2.7	31
197	4-D spatiotemporal analysis of ultrasound contrast agent dispersion for prostate cancer localization: a feasibility study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 839-51	3.2	30
196	Focal vs extended ablation in localized prostate cancer with irreversible electroporation; a multi-center randomized controlled trial. *BMC Cancer*, **2016**, 16, 299	4.8	29
195	Quantitative assessment of uroflow: is there a circadian rhythm?. *Urology*, **1997**, 50, 221-8	1.6	29
194	Automated Prostate Volume Determination with Ultrasonographic Imaging. *Journal of Urology*, **1995**, 153, 1549-1554	2.5	29
193	Evaluation of renal masses with contrast-enhanced ultrasound. *Current Urology Reports*, **2013**, 14, 116-23	2.9	28
192	Multiparametric dynamic contrast-enhanced ultrasound imaging of prostate cancer. *European Radiology*, **2017**, 27, 3226-3234	8	28
191	Value of contrast ultrasonography in the detection of significant prostate cancer: correlation with radical prostatectomy specimens. *Prostate*, **2002**, 53, 246-53	4.2	28
190	Three-dimensional grayscale ultrasound: evaluation of prostate cancer compared with benign prostatic hyperplasia. *Urology*, **2001**, 57, 914-20	1.6	28
189	Automated multiparametric localization of prostate cancer based on B-mode, shear-wave elastography, and contrast-enhanced ultrasound radiomics. *European Radiology*, **2020**, 30, 806-815	8	28
188	Correlation of transrectal ultrasound, computer analysis of transrectal ultrasound and histopathology of radical prostatectomy specimen. *Prostate Cancer and Prostatic Diseases*, **2001**, 4, 56-62	6.2	27
187	Review on ultrasound measurement of bladder or detrusor wall thickness in women: techniques, diagnostic utility, and use in clinical trials. *World Journal of Urology*, **2013**, 31, 1093-104	4	26
186	. *IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society*, **1994**, 2, 92-99		26

185	Role of voiding and storage symptoms for the quality of life before and after treatment in men with voiding dysfunction. *World Journal of Urology*, **2010**, 28, 3-8	4	25
184	Training in laparoscopic urology. *Current Opinion in Urology*, **2006**, 16, 65-70	2.8	25
183	The value of corpus cavernosum electromyography in erectile dysfunction: current status and future prospect. *European Urology*, **2003**, 43, 211-8	10.2	25
182	Formula-derived prostate volume determination. *European Urology*, **1996**, 29, 399-402	10.2	25
181	Bladder pressure sensors in an animal model. *Journal of Urology*, **1994**, 151, 1379-84	2.5	25
180	Contrast-enhanced ultrasound for the evaluation of the cryolesion after laparoscopic renal cryoablation: an initial report. *Journal of Endourology*, **2013**, 27, 402-7	2.7	24
179	Automated analysis and interpretation of transrectal ultrasonography images in patients with prostatitis. *European Urology*, **1995**, 27, 47-53	10.2	24
178	Motor evoked potentials from the bladder on magnetic stimulation of the cauda equina: a new technique for investigation of autonomic bladder innervation. *Journal of Urology*, **1992**, 147, 658-61	2.5	24
177	Multiparametric Ultrasound for Prostate Cancer Detection and Localization: Correlation of B-mode, Shear Wave Elastography and Contrast Enhanced Ultrasound with Radical Prostatectomy Specimens. *Journal of Urology*, **2019**, 202, 1166-1173	2.5	24
176	Magnetic resonance dispersion imaging for localization of angiogenesis and cancer growth. *Investigative Radiology*, **2014**, 49, 561-9	10.1	23
175	Selective detrusor activation by electrical stimulation of the human sacral nerve roots. *Artificial Organs*, **1997**, 21, 223-6	2.6	23
174	Computer Analysis of Transrectal Ultrasound Images of Prostate for Detection of Carcinoma: Prospective Study in Radical Prostatectomy Specimens. *Journal of Urology*, **1995**, 154, 1397-1400	2.5	23
173	Artificial intelligence in multiparametric prostate cancer imaging with focus on deep-learning methods. *Computer Methods and Programs in Biomedicine*, **2020**, 189, 105316	6.9	23
172	The efficacy and safety of irreversible electroporation for the ablation of renal masses: a prospective, human, in-vivo study protocol. *BMC Cancer*, **2015**, 15, 165	4.8	22
171	Prediction of Prostate Cancer: External Validation of the ERSPC Risk Calculator in a Contemporary Dutch Clinical Cohort. *European Urology Focus*, **2018**, 4, 228-234	5.1	22
170	Analysis of Maximum Detrusor Contraction Power in Relation to Bladder Emptying in Patients with Lower Urinary Tract Symptoms and Benign Prostatic Enlargement. *Journal of Urology*, **1995**, 154, 2137-2142	2.5	22
169	What is the added value of combined core biopsy and fine needle aspiration in the diagnostic process of renal tumours?. *World Journal of Urology*, **2013**, 31, 823-7	4	21
168	Cytological punctures in the diagnosis of renal tumours: a study on accuracy and reproducibility. *European Urology*, **2009**, 55, 187-95	10.2	21

167	Results of the treatment of neurogenic bladder dysfunction in spinal cord injury by sacral posterior root rhizotomy and anterior sacral root stimulation. *Journal of Urology*, **1996**, 155, 1378-81	2.5	21
166	Contrast-enhanced ultrasonography in the follow-up of cryoablation of renal tumours: a feasibility study. *BJU International*, **2007**, 99, 1371-5	5.6	20
165	The added value of systematic biopsy in men with suspicion of prostate cancer undergoing multiparametric MRI-targeted biopsy. *Urologic Oncology: Seminars and Original Investigations*, **2019**, 37, 298.e1-298.e9	2.8	20
164	Mathematical Models of Contrast Transport Kinetics for Cancer Diagnostic Imaging: A Review. *IEEE Reviews in Biomedical Engineering*, **2016**, 9, 121-47	6.4	19
163	Changes in the stage and surgical management of renal tumours during 1995-2005: an analysis of the Dutch national histopathology registry. *BJU International*, **2008**, 102, 946-51	5.6	19
162	The value of sildenafil as mode of stimulation in pharmaco-penile duplex ultrasonography. *International Journal of Impotence Research*, **2001**, 13, 189-91	2.3	19
161	Bladder compliance after posterior sacral root rhizotomies and anterior sacral root stimulation. *Journal of Urology*, **1994**, 151, 955-60	2.5	19
160	Super-Resolution Ultrasound Localization Microscopy Through Deep Learning. *IEEE Transactions on Medical Imaging*, **2021**, 40, 829-839	11.7	19
159	Deep Learning for Real-time, Automatic, and Scanner-adapted Prostate (Zone) Segmentation of Transrectal Ultrasound, for Example, Magnetic Resonance Imaging-transrectal Ultrasound Fusion Prostate Biopsy. *European Urology Focus*, **2021**, 7, 78-85	5.1	19
158	Multiparametric ultrasound: evaluation of greyscale, shear wave elastography and contrast-enhanced ultrasound for prostate cancer detection and localization in correlation to radical prostatectomy specimens. *BMC Urology*, **2018**, 18, 98	2.2	19
157	Sparsity-driven super-resolution in clinical contrast-enhanced ultrasound **2017**,		17
156	Laparoscopic renal cryoablation using ultrathin 17-gauge cryoprobes: mid-term oncological and functional results. *BJU International*, **2011**, 108, 577-82	5.6	17
155	A computer model of the neural control of the lower urinary tract. *Neurourology and Urodynamics*, **1998**, 17, 175-96	2.3	17
154	Selective detrusor activation by sacral ventral nerve-root stimulation: results of intraoperative testing in humans during implantation of a Finetech-Brindley system. *World Journal of Urology*, **1998**, 16, 337-41	4	17
153	Nephron-sparing surgery and percutaneous biopsies in renal-cell carcinoma: a global impression among endourologists. *Journal of Endourology*, **2007**, 21, 709-13	2.7	17
152	Long-term functional and urodynamic results of 50 patients receiving a modified sigmoid neobladder created with a short distal segment. *Journal of Urology*, **2005**, 174, 963-7	2.5	17
151	Cryotherapy for renal-cell cancer: diagnosis, treatment, and contrast-enhanced ultrasonography for follow-up. *Journal of Endourology*, **2006**, 20, 456-8; discussion 458-9	2.7	17
150	Planimetric volumetry of the prostate: how accurate is it?. *Physiological Measurement*, **1995**, 16, 141-50	2.9	17

149	Prostate Cancer Risk Assessment in Biopsy-naïve Patients: The Rotterdam Prostate Cancer Risk Calculator in Multiparametric Magnetic Resonance Imaging-Transrectal Ultrasound (TRUS) Fusion Biopsy and Systematic TRUS Biopsy. *European Urology Oncology*, **2018**, 1, 109-117	6.7	17
148	Contrast angiosonography: a technology to improve Doppler ultrasound examinations of the prostate. *European Urology*, **1999**, 35, 9-20	10.2	16
147	Validation of the Electronic Version of the International Index of Erectile Function (IIEF-5 and IIEF-15): A Crossover Study. *Journal of Medical Internet Research*, **2019**, 21, e13490	7.6	16
146	Contrast-Enhanced Ultrasound Angiogenesis Imaging by Mutual Information Analysis for Prostate Cancer Localization. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 661-670	5	15
145	Maximum-likelihood estimation for indicator dilution analysis. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 821-31	5	15
144	Entropy of Ultrasound-Contrast-Agent Velocity Fields for Angiogenesis Imaging in Prostate Cancer. *IEEE Transactions on Medical Imaging*, **2017**, 36, 826-837	11.7	15
143	Immediate effect of kidney cryoablation on renal arterial structure in a porcine model studied by imaging cryomicrotome. *Journal of Urology*, **2010**, 183, 1221-6	2.5	15
142	Intra- and inter-investigator variation in the analysis of pressure-flow studies in men with lower urinary tract symptoms. *Neurourology and Urodynamics*, **2000**, 19, 221-32	2.3	15
141	Hourglass-shaped nitinol prostatic stent in treatment of patients with lower urinary tract symptoms due to bladder outlet obstruction. *Urology*, **2005**, 66, 845-9	1.6	14
140	Modelling selective activation of small myelinated nerve fibres using a monopolar point electrode. *Medical and Biological Engineering and Computing*, **1995**, 33, 762-8	3.1	14
139	Irreversible electroporation for the treatment of localized prostate cancer: a summary of imaging findings and treatment feedback. *Diagnostic and Interventional Radiology*, **2017**, 23, 365-370	3.2	13
138	3D surface-based registration of ultrasound and histology in prostate cancer imaging. *Computerized Medical Imaging and Graphics*, **2016**, 47, 29-39	7.6	13
137	Accurate validation of ultrasound imaging of prostate cancer: a review of challenges in registration of imaging and histopathology. *Journal of Ultrasound*, **2018**, 21, 197-207	3.4	13
136	Exploiting Flow Dynamics for Superresolution in Contrast-Enhanced Ultrasound. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 1573-1586	3.2	13
135	Viscoelasticity Mapping by Identification of Local Shear Wave Dynamics. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 1666-1673	3.2	13
134	Manual versus automatic bladder wall thickness measurements: a method comparison study. *World Journal of Urology*, **2009**, 27, 747-53	4	13
133	Advances in ultrasound technology in oncologic urology. *Urologic Clinics of North America*, **2009**, 36, 133-45, vii	2.9	13
132	The bell-shaped nitinol prostatic stent in the treatment of lower urinary tract symptoms: experience in 108 patients. *European Urology*, **2006**, 49, 353-9	10.2	13

131	A computer model for describing the effect of urethral afferents on simulated lower urinary tract function. *Archives of Physiology and Biochemistry*, **1999**, 107, 223-35	2.2	13
130	Urodynamic Results of Laser Treatment in Patients with Benign Prostatic Hyperplasia. Can Outlet Obstruction be Relieved?. *Journal of Urology*, **1995**, 154, 174-180	2.5	13
129	Urodynamic assessment in the laser treatment of benign prostatic enlargement. *British Journal of Urology*, **1995**, 76, 604-10		13
128	Comparison of the diagnostic value of pump and gravity cavernosometry in the evaluation of the cavernous veno-occlusive mechanism. *Journal of Urology*, **1991**, 146, 1266-70	2.5	13
127	Bladder wall thickness in women with symptoms of overactive bladder and detrusor overactivity: Results from the randomised, placebo-controlled shrink study. *Neurourology and Urodynamics*, **2016**, 35, 819-25	2.3	13
126	Quantitative ultrasound molecular imaging by modeling the binding kinetics of targeted contrast agent. *Physics in Medicine and Biology*, **2017**, 62, 2449-2464	3.8	12
125	Reproducibility of contrast-enhanced transrectal ultrasound of the prostate. *Ultrasound in Medicine and Biology*, **2001**, 27, 595-602	3.5	12
124	Intra-prostatic vasculature studies: can they predict the outcome of transurethral microwave thermotherapy for the management of bladder outflow obstruction?. *Prostate*, **2001**, 46, 200-6	4.2	12
123	Computerized artifact detection and correction of uroflow curves: towards a more consistent quantitative assessment of maximum flow. *European Urology*, **1998**, 33, 54-63	10.2	12
122	Quantitative three-dimensional transrectal ultrasound (TRUS) for prostate imaging **1998**,		12
121	Contrast-Enhanced Ultrasound Quantification: From Kinetic Modeling to Machine Learning. *Ultrasound in Medicine and Biology*, **2020**, 46, 518-543	3.5	12
120	Fractal Dimension of Tumor Microvasculature by DCE-US: Preliminary Study in Mice. *Ultrasound in Medicine and Biology*, **2016**, 42, 2852-2863	3.5	12
119	Super-Resolution Contrast-Enhanced Ultrasound Methodology for the Identification of In Vivo Vascular Dynamics in 2D. *Investigative Radiology*, **2019**, 54, 500-516	10.1	12
118	The prostate cancer detection rates of CEUS-targeted versus MRI-targeted versus systematic TRUS-guided biopsies in biopsy-naïve men: a prospective, comparative clinical trial using the same patients. *BMC Urology*, **2017**, 17, 27	2.2	11
117	Corpus cavernosum electromyography with revised methodology: an explorative study in patients with erectile dysfunction and men with reported normal erectile function. *Journal of Sexual Medicine*, **2007**, 4, 191-198	1.1	11
116	Transrectal contrast enhanced ultrasound for diagnosis of prostate cancer. *World Journal of Urology*, **2007**, 25, 367-73	4	11
115	Comparison of different computer models of the neural control system of the lower urinary tract. *Neurourology and Urodynamics*, **2000**, 19, 289-310	2.3	11
114	Convective-Dispersion Modeling in 3D Contrast-Ultrasound Imaging for the Localization of Prostate Cancer. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2593-2602	11.7	10

113	Ultrasound modalities and quantification: developments of multiparametric ultrasonography, a new modality to detect, localize and target prostatic tumors. *Current Opinion in Urology*, **2015**, 25, 191-7	2.8	10
112	Advances in diagnosis and follow-up in kidney cancer. *Current Opinion in Urology*, **2008**, 18, 447-54	2.8	10
111	Quantification of prostate shrinkage after microwave thermotherapy: a comparison of calculated cell-kill versus 3D transrectal ultrasound planimetry. *European Urology*, **2003**, 43, 181-7	10.2	10
110	Construction and application of hierarchical decision tree for classification of ultrasonographic prostate images. *Medical and Biological Engineering and Computing*, **1996**, 34, 105-9	3.1	10
109	Vascular fluorescence casting and imaging cryomicrotomy for computerized three-dimensional renal arterial reconstruction. *BJU International*, **2007**, 100, 387-91	5.6	9
108	Corpus cavernosum electromyography during morning naps in healthy volunteers: further evidence that corpus cavernosum potentials reflect sympathetically mediated activity. *Journal of Urology*, **2005**, 174, 1917-20	2.5	9
107	Intraprostatic temperature monitoring during transurethral microwave thermotherapy: status and future developments. *Journal of Endourology*, **2000**, 14, 637-42	2.7	9
106	On the Relationship between Dynamic Contrast-Enhanced Ultrasound Parameters and the Underlying Vascular Architecture Extracted from Acoustic Angiography. *Ultrasound in Medicine and Biology*, **2019**, 45, 539-548	3.5	9
105	Use of Contrast-Enhanced Ultrasound in the Assessment of Uterine Fibroids: A Feasibility Study. *Ultrasound in Medicine and Biology*, **2018**, 44, 1901-1909	3.5	9
104	3-D Multi-parametric Contrast-Enhanced Ultrasound for the Prediction of Prostate Cancer. *Ultrasound in Medicine and Biology*, **2019**, 45, 2713-2724	3.5	8
103	Cumulative phase delay between second harmonic and fundamental components--a marker for ultrasound contrast agents. *Journal of the Acoustical Society of America*, **2014**, 136, 2968	2.2	8
102	Gradient changes in porcine renal arterial vascular anatomy and blood flow after cryoablation. *Journal of Urology*, **2011**, 186, 681-6	2.5	8
101	The methodology of corpus cavernosum electromyography revisited. *European Urology*, **2004**, 46, 370-5; discussion 375-6	10.2	8
100	Deactivation in the rabbit left ventricle induced by constant ejection flow. *IEEE Transactions on Biomedical Engineering*, **1989**, 36, 1113-23	5	8
99	Three-dimensional histopathological reconstruction as a reliable ground truth for prostate cancer studies. *Biomedical Physics and Engineering Express*, **2017**, 3, 035014	1.5	8
98	A preprocessing algorithm for edge detection with multiple scales of resolution. *European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology*, **1997**, 5, 113-126		7
97	Clinical utility of "blind placement" prostatic stent in patients with benign prostatic obstruction: a prospective study. *Urology*, **2006**, 68, 1025-30	1.6	7
96	New Technical Improvements for TRUS in the Diagnosis of Prostate Cancer. *European Urology Supplements*, **2002**, 1, 8-14	0.9	7

95	Transrectal ultrasound imaging of the prostate: review and perspectives of recent developments. *Prostate Cancer and Prostatic Diseases*, **1999**, 2, 241-252	6.2	7
94	Contrast-enhanced ultrasound tractography for 3D vascular imaging of the prostate. *Scientific Reports*, **2018**, 8, 14640	4.9	7
93	3-D Quantitative Dynamic Contrast Ultrasound for Prostate Cancer Localization. *Ultrasound in Medicine and Biology*, **2018**, 44, 807-814	3.5	6
92	Contrast-enhanced ultrasound as support for prostate brachytherapy treatment planning. *Journal of Contemporary Brachytherapy*, **2012**, 4, 69-74	1.9	6
91	Are there parameters that predict a nondiagnostic biopsy outcome taken during laparoscopic-assisted cryoablation of small renal tumors?. *Journal of Endourology*, **2011**, 25, 1463-8	2.7	6
90	The clinical research office of the endourological society audit committee. *Journal of Endourology*, **2011**, 25, 1811-3	2.7	6
89	The performance of 17-gauge cryoprobes in vitro. *Technology in Cancer Research and Treatment*, **2008**, 7, 321-7	2.7	6
88	Standardized assessment to enhance the diagnostic value of prostate volume; Part I: Morphometry in patients with lower urinary tract symptoms. *Prostate*, **1996**, 29, 317-26	4.2	6
87	Comparison of passive urethral resistance relation and urethral resistance factor in analysis of bladder outlet obstruction in patients with benign prostatic enlargement. *Neurourology and Urodynamics*, **1996**, 15, 1-10; discussion 10-5	2.3	6
86	The reliability of computer analysis of ultrasonographic prostate images: the influence of inconsistent histopathology. *Ultrasound in Medicine and Biology*, **1994**, 20, 871-6	3.5	6
85	The step response of left ventricular pressure to ejection flow: a system oriented approach. *Annals of Biomedical Engineering*, **1992**, 20, 99-126	4.7	6
84	Time-efficient estimation of the magnetic resonance dispersion model parameters for quantitative assessment of angiogenesis. *Biomedical Signal Processing and Control*, **2016**, 26, 23-33	4.9	6
83	3D Navigo versus TRUS-guided prostate biopsy in prostate cancer detection. *World Journal of Urology*, **2016**, 34, 1255-60	4	6
82	Sparsity-driven super-localization in clinical contrast-enhanced ultrasound **2017**,		5
81	Transabdominal contrast-enhanced ultrasound imaging of the prostate. *Ultrasound in Medicine and Biology*, **2015**, 41, 1112-8	3.5	5
80	A decade of surgically removed small renal masses in the Netherlands: characteristics and trends in type of surgery and pathologic reporting. *Journal of Endourology*, **2010**, 24, 1675-9	2.7	5
79	In vivo factors influencing the freezing cycle during cryoablation of small renal masses. *Journal of Endourology*, **2009**, 23, 545-9	2.7	5
78	A reproducibility study of corpus cavernosum electromyography in young healthy volunteers under controlled conditions. *Journal of Sexual Medicine*, **2007**, 4, 183-190	1.1	5

77	Ultrasonic computer imaging of the prostate; correlation between longitudinal and transverse texture descriptions. *European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology*, **1995**, 2, 145-149		5
76	Evaluation of Detrusor Activity During Micturition in Patients with Benign Prostatic Enlargement with a Clinical Nomogram. *Journal of Urology*, **1996**, 156, 473-479	2.5	5
75	Standardized assessment to enhance the diagnostic value of prostate volume; Part II: Correlation with prostate-specific antigen levels. *Prostate*, **1996**, 29, 327-33	4.2	5
74	Morphometric data of canine sacral nerve roots with reference to electrical sacral root stimulation. *Neurourology and Urodynamics*, **1996**, 15, 235-48	2.3	5
73	Computerized analysis of transrectal ultrasonography images in the detection of prostate carcinoma. *British Journal of Urology*, **1995**, 75, 485-91		5
72	Left-ventricular dynamic model based on constant ejection flow periods. *IEEE Transactions on Biomedical Engineering*, **1991**, 38, 1204-12	5	5
71	Urethral sphincteric responses to sacral root stimulation. *European Urology*, **1991**, 20, 70-3	10.2	5
70	Evaluation of Dispersion MRI for Improved Prostate Cancer Diagnosis in a Multicenter Study. *American Journal of Roentgenology*, **2018**, 211, W242-W251	5.4	5
69	Cumulative phase delay imaging for contrast-enhanced ultrasound tomography. *Physics in Medicine and Biology*, **2015**, 60, L23-33	3.8	4
68	Contrast-ultrasound dispersion imaging of cancer neovascularization by mutual-information analysis **2014**,		4
67	Quality of life and perceived pain after laparoscopic-assisted renal cryoablation. *Journal of Endourology*, **2010**, 24, 713-9	2.7	4
66	Audex Medical, a new system for digital processing and analysis of ultrasonographic images of the prostate. *Scandinavian Journal of Urology and Nephrology, Supplement*, **1991**, 137, 95-100		4
65	Clinical Diagnosis of Bladder Outlet Obstruction in Patients with Benign Prostatic Enlargement and Lower Urinary Tract Symptoms. *Journal of Urology*, **1996**, 1649-1654	2.5	4
64	A review on B/A measurement methods with a clinical perspective. *Journal of the Acoustical Society of America*, **2021**, 149, 2200	2.2	4
63	Pharmacokinetic Modeling of Targeted Ultrasound Contrast Agents for Quantitative Assessment of Anti-Angiogenic Therapy: a Longitudinal Case-Control Study in Colon Cancer. *Molecular Imaging and Biology*, **2019**, 21, 633-643	3.8	4
62	Detection of clinically significant prostate cancer in biopsy-naïve men: direct comparison of systematic biopsy, multiparametric MRI- and contrast-ultrasound-dispersion imaging-targeted biopsy. *BJU International*, **2020**, 126, 481-493	5.6	4
61	Three-dimensional greyscale transrectal ultrasound-guidance and biopsy core preembedding for detection of prostate cancer: Dutch clinical cohort study. *BMC Urology*, **2019**, 19, 23	2.2	3
60	Blind Source Separation for Clutter and Noise Suppression in Ultrasound Imaging: Review for Different Applications. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 1497-1512	3.2	3

59	Contrast-enhanced ultrasound with dispersion analysis for the localization of prostate cancer: correlation with radical prostatectomy specimens. *World Journal of Urology*, **2020**, 38, 2811-2818	4	3
58	The diagnostic yield of immediate postcryoablation biopsies of small renal masses. *Journal of Endourology*, **2009**, 23, 1203-7	2.7	3
57	Zonal Segmentation in Transrectal Ultrasound Images of the Prostate Through Deep Learning **2018** ,		3
56	Concordance of Gleason grading with three-dimensional ultrasound systematic biopsy and biopsy core pre-embedding. *World Journal of Urology*, **2018**, 36, 863-869	4	2
55	Towards Dynamic Contrast Specific Ultrasound Tomography. *Scientific Reports*, **2016**, 6, 34458	4.9	2
54	**2015**,		2
53	3D contrast ultrasound dispersion imaging by mutual information for prostate cancer localization **2015**,		2
52	Three-dimensional contrast-ultrasound dispersion imaging for prostate cancer localization, a feasibility study **2014**,		2
51	Contrast dispersion imaging for cancer localization. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4268-71	0.9	2
50	Prostate cancer localization by novel magnetic resonance dispersion imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 2603-6	0.9	2
49	Application of correlation techniques in the analysis of corpus cavernosum electromyographic signals. *Asian Journal of Andrology*, **2007**, 9, 369-76	2.8	2
48			2
47	Multiparametric dynamic contrast-enhanced ultrasound classification of prostate cancer **2016**,		2
46	A fixed-distance plane wave method for estimating the ultrasound coefficient of nonlinearity **2018**,		2
45	The challenge of prostate biopsy guidance in the era of mpMRI detected lesion: ultrasound-guided versus in-bore biopsy. *British Journal of Radiology*, **2021**, 20210363	3.4	2
44	A Computer model of the neural control of the lower urinary tract **1998**, 17, 175		2
43	Which properties of the vascular architecture are reflected by dynamic contrast-enhanced ultrasound imaging of dispersion and wash-in rate? A comparison with acoustic angiography **2017**,		1
42	**2015**,		1

41	Speckle-initialized dynamic segmentation of the prostate. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 6352-5	0.9	1
40	Prostate cancer localization by contrast-ultrasound diffusion imaging **2009**,		1
39	Bladder wall thickness in healthy school-aged children. *Urology*, **2008**, 72, 233-4; author reply 234-5	1.6	1
38	Computerised assessment of maximum urinary flow: an efficient, consistent and valid approach. *European Urology*, **2002**, 41, 206-13; discussion 213	10.2	1
37	In Reply: Re: Automated Prostate Volume Determination with Ultrasonographic Imaging. *Journal of Urology*, **1996**, 155, 1038-1039	2.5	1
36	Automatic Prostate Carcinoma Detection By The Use Of Tissue Characterisation		1
35	Automated prostate volume determination **1992**,		1
34	Automated Prostate Volume Determination with Ultrasonographic Imaging. *Journal of Urology*, **1995**, 1549-1554	2.5	1
33	Evaluation of Detrusor Activity During Micturition in Patients with Benign Prostatic Enlargement with a Clinical Nomogram. *Journal of Urology*, **1996**, 473-479	2.5	1
32	Selective Detrusor Activation By Electrical Sacral Nerve Root Stimulation in Spinal Cord Injury. *Journal of Urology*, **1997**, 1504-1508	2.5	1
31	Computer Analysis of Transrectal Ultrasound Images of Prostate for Detection of Carcinoma. *Journal of Urology*, **1995**, 1397-1400	2.5	1
30	Aspects of imaging in the assessment and follow up of benign prostatic hyperplasia. *Current Opinion in Urology*, **1999**, 9, 21-9	2.8	1
29	Statistical characterization of Ultrasound-Contrast-agent velocity fields for prostate cancer localization **2016**,		1
28	Quantitative ultrasound molecular imaging for antiangiogenic therapy monitoring **2016**,		1
27	In-vitro investigation of the relationship between microvascular structure and ultrasound contrast agent dynamics **2019**,		1
26	Machine Learning for Multiparametric Ultrasound Classification of Prostate Cancer using B-mode, Shear-Wave Elastography, and Contrast-Enhanced Ultrasound Radiomics **2019**,		1
25	Cancer Detection Rates of Systematic and Targeted Prostate Biopsies after Biparametric MRI. *Prostate Cancer*, **2020**, 2020, 4626781	1.9	1
24	Blood flow patterns estimation in the left ventricle with low-rate 2D and 3D dynamic contrast-enhanced ultrasound. *Computer Methods and Programs in Biomedicine*, **2021**, 198, 105810	6.9	1

23	Quantification of Contrast Kinetics in Clinical Imaging **2018**,		1
22	Experimental acoustic characterization of an endoskeletal antibubble contrast agent: First results. *Medical Physics*, **2021**, 48, 6765-6780	4.4	1
21	Kwaliteitsregistraties in de urologie: the Clinical Research Office of the Endourological Society (CROES). *Tijdschrift Voor Urologie*, **2017**, 7, 35-39	0.2	0
20	Contrast-enhanced Ultrasound in Urology **2018**, 1605-1615		0
19	Contrast-Enhanced Ultrasound (CEUS) and Elastographic Imaging **2016**, 125-138		
18	Other testing **2015**, 53-61		
17	Closed-form solution of the convolution integral in the magnetic resonance dispersion model for quantitative assessment of angiogenesis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4272-5	0.9	
16	Contrast-Enhanced Ultrasound in Urology **2012**, 1416-1424		
15	Proposed system for ultrasonic temperature imaging of the human prostate in vivo during transurethral microwave thermotherapy: data acquisition and initial experience **2001**, 4325, 75		
14	Perineal nerve stimulation for urinary sphincter control. Experimental study. *Urological Research*, **1995**, 23, 135-6		
13	In Reply: Re: Automated Prostate Volume Determination with Ultrasonographic Imaging. *Journal of Urology*, **1996**, 155, 292-293	2.5	
12	Radiomic combination of spatial and temporal features extracted from DCE-MRI for prostate cancer detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 3153-3156	0.9	
11	Contrast-Enhanced Ultrasound (CEUS) **2021**, 161-177		
10	Intravascular Contrast Agents **2018**, 39-89		
9	Extravascular Contrast Agents **2018**, 91-130		
8	Molecular Contrast Agents **2018**, 131-184		
7	Reply by Authors. *Journal of Urology*, **2019**, 202, 1172-1173	2.5	
6	Multiparametric Transrectal Ultrasound Biopsy. *Current Clinical Urology*, **2017**, 251-263		

5 Contrast-Enhanced Ultrasound of the Kidneys **2009**, 123-129

4 Advances in Diagnostic and Therapeutic Ultrasonography **2010**, 235-250

3 Zusatzfunktionen und Innovationen in der Sonographie **2012**, 17-29

2 Contrast-Enhanced Ultrasonography **2013**, 155-164

1 Volume Measurement **2014**, 1-18