

Arkadiusz Miernik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

1,049
citations

18
h-index

27
g-index

148
ext. papers

1,532
ext. citations

2.9
avg, IF

4.73
L-index

#	Paper	IF	Citations
110	Explainable artificial intelligence (XAI): closing the gap between image analysis and navigation in complex invasive diagnostic procedures.. <i>World Journal of Urology</i> , 2022 , 1	4	
109	Safety and Efficacy of Laser Enucleation of the Prostate in Elderly Patients - A Narrative Review.. <i>Clinical Interventions in Aging</i> , 2022 , 17, 15-33	4	0
108	Ex-vivo evaluation of miniaturized probes for endoscopic optical coherence tomography in urothelial cancer diagnostics. <i>Annals of Medicine and Surgery</i> , 2022 , 103597	2	1
107	Adherence to European Association of Urology and National Comprehensive Cancer Network Guidelines Criteria for Inguinal and Pelvic Lymph Node Dissection in Penile Cancer Patients-A Survey Assessment in German-speaking Countries on Behalf of the European Prospective Penile Cancer Study Group. <i>European Urology Focus</i> , 2021 , 7, 843-849	5.1	5
106	In vitro fragmentation performance of a novel, pulsed Thulium solid-state laser compared to a Thulium fibre laser and standard Ho:YAG laser.. <i>Lasers in Medical Science</i> , 2021 , 37, 2071	3.1	0
105	Incidental prostate cancer after holmium laser enucleation of the prostate-A narrative review. <i>Andrologia</i> , 2021 , e14332	2.4	0
104	Dusting Efficiency of a Novel Pulsed Thulium:Yttrium Aluminum Garnet Laser vs a Thulium Fiber Laser. <i>Journal of Endourology</i> , 2021 ,	2.7	1
103	Impact of diabetes mellitus on urinary continence after holmium laser enucleation of the prostate due to lower urinary tract symptoms: a retrospective study.. <i>Central European Journal of Urology</i> , 2021 , 74, 535-540	0.9	
102	Reasons for new MIS. Let's be fair: iTIND, Urolift and Rezūm. <i>World Journal of Urology</i> , 2021 , 39, 2315-2327		3
101	Gas Bubble Anatomy During Laser Lithotripsy: An Experimental Study of a Pulsed Solid-State Tm:YAG and Ho:YAG Device. <i>Journal of Endourology</i> , 2021 , 35, 1051-1057	2.7	1
100	Laser procedures in the treatment of BPH: a bibliometric study. <i>World Journal of Urology</i> , 2021 , 39, 2903-2911	2.9	2
99	Laser-guided real-time automatic target identification for endoscopic stone lithotripsy: a two-arm in vivo porcine comparison study. <i>World Journal of Urology</i> , 2021 , 39, 2719-2726	4	2
98	Safety and side effects of transperineal prostate biopsy without antibiotic prophylaxis. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2021 , 39, 782.e1-782.e5	2.8	5
97	Artificial Intelligence in Magnetic Resonance Imaging-based Prostate Cancer Diagnosis: Where Do We Stand in 2021?. <i>European Urology Focus</i> , 2021 ,	5.1	3
96	Soft Urinary Bladder Phantom for Endoscopic Training. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2412-2420	2.4	1
95	Panoramic Imaging Assessment of Different Bladder Phantoms - An Evaluation Study. <i>Urology</i> , 2021 , 156, e103-e110	1.6	0
94	Mixed reality applications in urology: Requirements and future potential. <i>Annals of Medicine and Surgery</i> , 2021 , 66, 102394	2	6

93	Holmium laser enucleation of an esophageal leiomyoma in endoscopic tunnel technique. <i>VideoGIE</i> , 2021 , 6, 250-251	1.1	
92	Temperature Assessment of a Novel Pulsed Thulium Solid-State Laser Compared with a Holmium:Yttrium-Aluminum-Garnet Laser. <i>Journal of Endourology</i> , 2021 , 35, 853-859	2.7	1
91	Role of Radiomics in the Prediction of Muscle-invasive Bladder Cancer: A Systematic Review and Meta-analysis. <i>European Urology Focus</i> , 2021 ,	5.1	2
90	Comprehensive analysis of complications after transperineal prostate biopsy without antibiotic prophylaxis: results of a multicenter trial with 30 days follow-up. <i>Prostate Cancer and Prostatic Diseases</i> , 2021 ,	6.2	3
89	Real-world data and treatment patterns of patients with lower urinary tract symptoms due to benign prostatic hyperplasia in Germany: an observational study using health insurance claims data. <i>World Journal of Urology</i> , 2021 , 39, 4381-4388	4	0
88	Radiation exposure during retrograde intrarenal surgery (RIRS): a prospective multicenter evaluation. <i>World Journal of Urology</i> , 2021 , 39, 217-224	4	2
87	Metabolic Imaging of Urothelial Carcinoma by Simultaneous Autofluorescence Lifetime Imaging (FLIM) of NAD(P)H and FAD. <i>Clinical Genitourinary Cancer</i> , 2021 , 19, e31-e36	3.3	1
86	Dusting Performance of a New Solid State Thulium Laser Compared to Holmium Laser Lithotripsy. <i>Journal of Endourology</i> , 2021 , 35, 221-225	2.7	4
85	Track and Teach: Identifying Key Movement Patterns in Endoscopic Transurethral Enucleation of the Prostate. <i>Urologia Internationalis</i> , 2021 , 105, 835-845	1.9	
84	Retropulsion force in laser lithotripsy-an in vitro study comparing a Holmium device to a novel pulsed solid-state Thulium laser. <i>World Journal of Urology</i> , 2021 , 39, 3651-3656	4	2
83	Evaluation of functional parameters, patient-reported outcomes and workload related to continuous urinary bladder irrigation after transurethral surgery. <i>Translational Andrology and Urology</i> , 2021 , 10, 2921-2928	2.3	
82	Endourological Training Using 3D-Printed Bladder Phantoms: Development and Prospective Evaluation. <i>Journal of Endourology</i> , 2021 , 35, 1257-1264	2.7	2
81	A novel laser lithotripsy system with automatic target recognition: from bench to bedside. <i>Comptes Rendus Chimie</i> , 2021 , 24, 1-7	2.7	
80	Experimental ex-vivo performance study comparing a novel, pulsed thulium solid-state laser, chopped thulium fibre laser, low and high-power holmium:YAG laser for endoscopic enucleation of the prostate. <i>World Journal of Urology</i> , 2021 , 1	4	2
79	Thermal effects of thulium: YAG laser treatment of the prostate-an in vitro study. <i>World Journal of Urology</i> , 2021 , 1	4	0
78	Portable Ultrasound Research System for Use in Automated Bladder Monitoring with Machine-Learning-Based Segmentation. <i>Sensors</i> , 2021 , 21,	3.8	3
77	Interventionelle Therapie: Wann und wie? 2021 , 73-85		
76	Automatic speech recognition in the operating room - An essential contemporary tool or a redundant gadget? A survey evaluation among physicians in form of a qualitative study. <i>Annals of Medicine and Surgery</i> , 2020 , 59, 81-85	2	1

75	Radiomics Applications in Renal Tumor Assessment: A Comprehensive Review of the Literature. <i>Cancers</i> , 2020 , 12,	6.6	12
74	A novel endoimaging system for endoscopic 3D reconstruction in bladder cancer patients. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2020 , 1-8	2.1	2
73	Preclinical and Clinical Evaluation of a Novel, Variable-View, Rigid Endoscope for Female Cystoscopy. <i>Urology</i> , 2020 , 142, 231-236	1.6	3
72	Application of artificial neural networks for automated analysis of cystoscopic images: a review of the current status and future prospects. <i>World Journal of Urology</i> , 2020 , 38, 2349-2358	4	28
71	Use of Artificial Intelligence for Medical Literature Search: Randomized Controlled Trial Using the Hackathon Format. <i>Interactive Journal of Medical Research</i> , 2020 , 9, e16606	2.1	5
70	Current Treatment for Benign Prostatic Hyperplasia. <i>Deutsches A&#x0308;rzteblatt International</i> , 2020 , 117, 843-854	2.5	6
69	Current and future applications of machine and deep learning in urology: a review of the literature on urolithiasis, renal cell carcinoma, and bladder and prostate cancer. <i>World Journal of Urology</i> , 2020 , 38, 2329-2347	4	31
68	Current European Trends in Endoscopic Imaging and Transurethral Resection of Bladder Tumors. <i>Journal of Endourology</i> , 2020 , 34, 312-321	2.7	10
67	Current Disposable Ureterscopes: Performance and Limitations in a Standardized Kidney Model. <i>Journal of Endourology</i> , 2020 , 34, 1015-1020	2.7	4
66	Therapy-Refractory Matrix Staghorn in a Kidney Transplant Recipient: Endoscopic Percutaneous Morcellation as a Novel Treatment Option. <i>Journal of Endourology Case Reports</i> , 2020 , 6, 209-212	0.3	
65	Thermal effects of Ho:YAG laser lithotripsy during retrograde intrarenal surgery and percutaneous nephrolithotomy in an ex vivo porcine kidney model. <i>World Journal of Urology</i> , 2020 , 38, 753-760	4	26
64	Efficacy and safety of aquablation of the prostate for patients with symptomatic benign prostatic enlargement: a systematic review. <i>World Journal of Urology</i> , 2020 , 38, 1147-1163	4	5
63	A High-Fidelity Phantom for the Simulation and Quantitative Evaluation of Transurethral Resection of the Prostate. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 437-446	4.7	13
62	Current Standards in the Endoscopic Management of Bladder Cancer: A Survey Evaluation among Urologists in German-Speaking Countries. <i>Urologia Internationalis</i> , 2020 , 104, 410-416	1.9	7
61	Characterization of Flow-Caused Intrarenal Pressure Conditions During Percutaneous Nephrolithotomy In Vitro. <i>Journal of Endourology</i> , 2019 , 33, 235-241	2.7	5
60	Holmium laser vaporization and percutaneous removal of a migrated endothelialized biliary self-expanding metal stent. <i>VideoGIE</i> , 2019 , 4, 269-270	1.1	
59	Response to Tailly and Van Haute: In Vitro Effects of a Novel Coating Agent on Bacterial Biofilm Development on Ureteral Stent by Schoeb et al. (From: Tailly T, Van Haute C. <i>J Endourol</i> 2019;33:232-233; DOI: 10.1089/end.2018.0907). <i>Journal of Endourology</i> , 2019 , 33, 234	2.7	
58	Urethral flap glanuloplasty after partial penectomy for penile carcinoma: Evaluation of urinary, sexual and quality of life outcomes. <i>Urology Case Reports</i> , 2019 , 23, 58-59	0.5	0

57	Residual stone fragments: clinical implications and technological innovations. <i>Current Opinion in Urology</i> , 2019 , 29, 129-134	2.8	11
56	"Three horse shoe-like incision" holmium laser enucleation of the prostate: first experience with a novel en bloc technique for anatomic transurethral prostatectomy. <i>World Journal of Urology</i> , 2019 , 37, 523-528	4	18
55	Reply by Authors. <i>Journal of Urology</i> , 2019 , 202, 1269	2.5	
54	Experimental Evaluation of Human Kidney Stone Spectra for Intraoperative Stone-Tissue-Instrument Analysis Using Autofluorescence. <i>Journal of Urology</i> , 2019 , 201, 182-187	2.5	7
53	A Novel Laser Lithotripsy System with Automatic Real-Time Urinary Stone Recognition: Computer Controlled Ex Vivo Lithotripsy is Feasible and Reproducible in Endoscopic Stone Fragmentation. <i>Journal of Urology</i> , 2019 , 202, 1263-1269	2.5	5
52	Modified salvage endoscopic combined intrarenal surgery in a single functional kidney with refractory staghorn stone. <i>Urology Case Reports</i> , 2019 , 23, 13-14	0.5	
51	In Vitro Effects of a Novel Coating Agent on Bacterial Biofilm Development on Ureteral Stents. <i>Journal of Endourology</i> , 2019 , 33, 225-231	2.7	13
50	Risk Factors for Ureteral Damage in Ureteroscopic stone Treatment: Results of the German Prospective Multicentre Benchmarks of Ureterorenoscopic Stone Treatment-Results in Terms of Complications, Quality of Life, and Stone-Free Rates Project. <i>Urologia Internationalis</i> , 2019 , 102, 187-193	1.9	4
49	Combined prostatic urethral lift and remodeling of the prostate and bladder neck: a modified transurethral approach in the treatment of symptomatic lower urinary tract obstruction. <i>World Journal of Urology</i> , 2018 , 36, 1111-1116	4	1
48	Thermal effects of Ho: YAG laser lithotripsy: real-time evaluation in an in vitro model. <i>World Journal of Urology</i> , 2018 , 36, 1469-1475	4	34
47	Viability and biocompatibility of an adhesive system for intrarenal embedding and endoscopic removal of small residual fragments in minimally-invasive stone treatment in an in vivo pig model. <i>World Journal of Urology</i> , 2018 , 36, 673-680	4	5
46	The stone surgeon in the mirror: how are German-speaking urologists treating large renal stones today?. <i>World Journal of Urology</i> , 2018 , 36, 467-473	4	2
45	Low-pressure monopolar electroresection of the prostate for glands sized ≥ 70 vs. < 70 . <i>World Journal of Urology</i> , 2018 , 36, 449-457	4	0
44	Robotic stone surgery - Current state and future prospects: A systematic review. <i>Arab Journal of Urology Arab Association of Urology</i> , 2018 , 16, 357-364	1.7	14
43	Health-Related Quality of Life and Sexual Function in Patients Treated for Penile Cancer. <i>Urologia Internationalis</i> , 2018 , 101, 351-357	1.9	7
42	Validating Automated Kidney Stone Volumetry in CT and Mathematical Correlation with Estimated Stone Volume Based on Diameter. <i>Journal of Endourology</i> , 2018 , 32, 659-664	2.7	9
41	Image-based 3D surface approximation of the bladder using structure-from-motion for enhanced cystoscopy based on phantom data. <i>Biomedizinische Technik</i> , 2018 , 63, 461-466	1.3	11
40	Small-caliber Percutaneous Nephrolithotomy 2018 , 301-309		1

39	Robotic waterjet wound debridement - Workflow adaption for clinical application and systematic evaluation of a novel technology. <i>PLoS ONE</i> , 2018 , 13, e0204315	3.7	3
38	Impact of Thermo-Expandable Memokath Ureteral Stent on Renal Function in the Management of Ureteroileal Anastomotic Stricture. <i>Urologia Internationalis</i> , 2018 , 101, 313-319	1.9	1
37	Surgical therapy of prostatitis: a systematic review. <i>World Journal of Urology</i> , 2017 , 35, 1659-1668	4	9
36	Algorithm-Based Motion Magnification for Video Processing in Urological Laparoscopy. <i>Journal of Endourology</i> , 2017 , 31, 583-587	2.7	4
35	New for Old-Coagulum Lithotomy vs a Novel Bioadhesive for Complete Removal of Stone Fragments in a Comparative Study in an Ex Vivo Porcine Model. <i>Journal of Endourology</i> , 2017 , 31, 611-616	2.7	4
34	Is Endoscopic Vasectomy Just a Dream: An ex vivo Study on Feasibility and Reliability of Endoluminal Occlusion of Porcine Vas Deferens. <i>Urologia Internationalis</i> , 2017 , 99, 467-475	1.9	
33	Performance of Single-Use FlexorVue vs Reusable BoaVision Ureteroscope for Visualization of Calices and Stone Extraction in an Artificial Kidney Model. <i>Journal of Endourology</i> , 2017 , 31, 1139-1144	2.7	10
32	Wireless Acoustic-Surface Actuators for Miniaturized Endoscopes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42536-42543	9.5	9
31	Ultralow Radiation Exposure During Flexible Ureteroscopy in Patients With Nephrolithiasis-How Far Can We Go?. <i>Urology</i> , 2017 , 108, 34-39	1.6	11
30	Soft 3D-Printed Phantom of the Human Kidney with Collecting System. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 963-972	4.7	96
29	Complete Occlusion of a Subcutaneous Pyelovesical Bypass Graft (Detour [®] System) Caused by Uric Acid Stone Formation. <i>Urologia Internationalis</i> , 2017 , 98, 483-485	1.9	3
28	Stereoscopic (3D) versus monoscopic (2D) laparoscopy: comparative study of performance using advanced HD optical systems in a surgical simulator model. <i>World Journal of Urology</i> , 2016 , 34, 471-7	4	22
27	Flexible Vesiculovasoscopy Using a Microoptical System in a Human Cadaver Model: An Experimental Approach for Atraumatic Endoscopy of the Seminal Tract. <i>Journal of Endourology</i> , 2016 , 30, 934-8	2.7	5
26	Level of evidence, sponsorship, conflict of interest policy and commercial impact of PubMed-listed clinical urolithiasis-related trials in 2014. <i>BJU International</i> , 2016 , 117, 787-92	5.6	4
25	Clinical significance of residual fragments in 2015: impact, detection, and how to avoid them. <i>World Journal of Urology</i> , 2016 , 34, 771-8	4	18
24	Online Discussion on #KidneyStones: A Longitudinal Assessment of Activity, Users and Content. <i>PLoS ONE</i> , 2016 , 11, e0160863	3.7	14
23	Endoscopically Determined Stone Clearance Predicts Disease Recurrence Within 5 Years After Retrograde Intrarenal Surgery. <i>Journal of Endourology</i> , 2016 , 30, 644-9	2.7	14
22	Novel Biocompatible Adhesive for Intrarenal Embedding and Endoscopic Removal of Small Residual Fragments after Minimally Invasive Stone Treatment in an Ex Vivo Porcine Kidney Model: Initial Evaluation of a Prototype. <i>Journal of Urology</i> , 2016 , 196, 1772-1777	2.5	10

21	Ultra-mini PCNL versus flexible ureteroscopy: a matched analysis of treatment costs (endoscopes and disposables) in patients with renal stones 10-20 mm. <i>World Journal of Urology</i> , 2015 , 33, 1601-5	4	39
20	Is in vivo analysis of urinary stone composition feasible? Evaluation of an experimental setup of a Raman system coupled to commercial lithotripsy laser fibers. <i>World Journal of Urology</i> , 2015 , 33, 1593-9	4	7
19	Focused Dual-energy CT Maintains Diagnostic and Compositional Accuracy for Urolithiasis Using Ultralow-dose Noncontrast CT. <i>Urology</i> , 2015 , 86, 1097-102	1.6	16
18	Single-Incision Transumbilical Surgery (SITUS) versus Single-Port Laparoscopic Surgery and conventional laparoscopic surgery: a prospective randomized comparative study of performance with novices in a dry laboratory. <i>World Journal of Urology</i> , 2015 , 33, 51-7	4	7
17	Analgesia-free flexible ureteroscopic treatment and laser lithotripsy for removal of a large urinary stone: a case report. <i>Journal of Medical Case Reports</i> , 2015 , 9, 225	1.2	2
16	Ultra-mini PCNL versus flexible ureteroscopy: a matched analysis of analgesic consumption and treatment-related patient satisfaction in patients with renal stones 10-35 mm. <i>World Journal of Urology</i> , 2015 , 33, 2131-6	4	30
15	Combined semirigid and flexible ureterorenoscopy via a large ureteral access sheath for kidney stones >2 cm: a bicentric prospective assessment. <i>World Journal of Urology</i> , 2014 , 32, 697-702	4	22
14	The Post-Ureteroscopic Lesion Scale (PULS): a multicenter video-based evaluation of inter-rater reliability. <i>World Journal of Urology</i> , 2014 , 32, 1033-40	4	39
13	Bringing excellence into urology: How to improve the future training of residents?. <i>Arab Journal of Urology Arab Association of Urology</i> , 2014 , 12, 15-20	1.7	5
12	The cumulative analgesic consumption score (CACS): evaluation of a new score to describe postsurgical analgesic consumption as a surrogate parameter for postoperative pain and invasiveness of surgical procedures. <i>International Braz J Urol: Official Journal of the Brazilian Society of Urology</i> , 2014 , 40, 330-6	2	9
11	Splice variant transcripts of the anterior gradient 2 gene as a marker of prostate cancer. <i>Oncotarget</i> , 2014 , 5, 8681-9	3.3	35
10	Training in robotics: The learning curve and contemporary concepts in training. <i>Arab Journal of Urology Arab Association of Urology</i> , 2014 , 12, 58-61	1.7	18
9	Automated analysis of urinary stone composition using Raman spectroscopy: pilot study for the development of a compact portable system for immediate postoperative ex vivo application. <i>Journal of Urology</i> , 2013 , 190, 1895-900	2.5	19
8	The glandular resection and central embedding modification (GRACE) in Duckett and Barcat hypospadias repair. <i>Urologia Internationalis</i> , 2013 , 90, 358-64	1.9	3
7	Authors' response to Garg et al. <i>Journal of Endourology</i> , 2013 , 27, 504-5	2.7	
6	Standardized flexible ureteroscopic technique to improve stone-free rates. <i>Urology</i> , 2012 , 80, 1198-202	1.6	52
5	Postureteroscopic lesion scale: a new management modified organ injury scale--evaluation in 435 ureteroscopic patients. <i>Journal of Endourology</i> , 2012 , 26, 1425-30	2.7	46
4	Predictive power of objectivation of phimosis grade on outcomes of topical 0.1% betamethasone treatment of phimosis. <i>Urology</i> , 2012 , 80, 412-6	1.6	10

3	Pre-bent instruments used in single-port laparoscopic surgery versus conventional laparoscopic surgery: comparative study of performance in a dry lab. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2012 , 26, 1924-30	5.2	21
2	Retrograde intrarenal surgery in treatment of nephrolithiasis: is a 100% stone-free rate achievable?. <i>Journal of Endourology</i> , 2012 , 26, 489-93	2.7	36
1	Complete removal of the foreskin--why?. <i>Urologia Internationalis</i> , 2011 , 86, 383-7	1.9	6