Arkadiusz Miernik

List of Publications by Year
in descending order

123	1,971	304368	360668
papers	citations	22 h-index	35 g-index

148	148	148	1980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Soft 3D-Printed Phantom of the Human Kidney with Collecting System. Annals of Biomedical Engineering, 2017, 45, 963-972.	1.3	127
2	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. World Journal of Urology, 2020, 38, 2329-2347.	1.2	105
3	Standardized Flexible Ureteroscopic Technique to Improve Stone-free Rates. Urology, 2012, 80, 1198-1202.	0.5	67
4	Postureteroscopic Lesion Scale: A New Management Modified Organ Injury Scaleâ€"Evaluation in 435 Ureteroscopic Patients. Journal of Endourology, 2012, 26, 1425-1430.	1.1	58
5	The Post-Ureteroscopic Lesion Scale (PULS): a multicenter video-based evaluation of inter-rater reliability. World Journal of Urology, 2014, 32, 1033-1040.	1.2	58
6	Application of artificial neural networks for automated analysis of cystoscopic images: a review of the current status and future prospects. World Journal of Urology, 2020, 38, 2349-2358.	1.2	55
7	Retrograde Intrarenal Surgery in Treatment of Nephrolithiasis: Is a 100% Stone-Free Rate Achievable?. Journal of Endourology, 2012, 26, 489-493.	1.1	53
8	Thermal effects of Ho: YAG laser lithotripsy: real-time evaluation in an in vitro model. World Journal of Urology, 2018, 36, 1469-1475.	1.2	53
9	Ultra-mini PCNL versus flexible ureteroscopy: a matched analysis of treatment costs (endoscopes and) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	52
10	Thermal effects of Ho:YAG laser lithotripsy during retrograde intrarenal surgery and percutaneous nephrolithotomy in an ex vivo porcine kidney model. World Journal of Urology, 2020, 38, 753-760.	1.2	49
11	Splice variant transcripts of the anterior gradient 2 gene as a marker of prostate cancer. Oncotarget, 2014, 5, 8681-8689.	0.8	39
12	Current Treatment for Benign Prostatic Hyperplasia. Deutsches Ärzteblatt International, 2020, 117, 843-854.	0.6	38
13	Ultra-mini PCNL versus flexible ureteroscopy: a matched analysis of analgesic consumption and treatment-related patient satisfaction in patients with renal stones 10â€"35Âmm. World Journal of Urology, 2015, 33, 2131-2136.	1.2	37
14	Radiomics Applications in Renal Tumor Assessment: A Comprehensive Review of the Literature. Cancers, 2020, 12, 1387.	1.7	33
15	Clinical significance of residual fragments in 2015: impact, detection, and how to avoid them. World Journal of Urology, 2016, 34, 771-778.	1.2	32
16	Combined semirigid and flexible ureterorenoscopy via a large ureteral access sheath for kidney stones >2Âcm: a bicentric prospective assessment. World Journal of Urology, 2014, 32, 697-702.	1.2	29
17	Role of Radiomics in the Prediction of Muscle-invasive Bladder Cancer: A Systematic Review and Meta-analysis. European Urology Focus, 2022, 8, 728-738.	1.6	29
18	Training in robotics: The learning curve and contemporary concepts in training. Arab Journal of Urology Arab Association of Urology, 2014, 12, 58-61.	0.7	28

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19	â€œThree horse shoe-like incisionâ€•holmium laser enucleation of the prostate: first experience with a novel en bloc technique for anatomic transurethral prostatectomy. World Journal of Urology, 2019, 37, 523-528.	1.2	28
20	Residual stone fragments. Current Opinion in Urology, 2019, 29, 129-134.	0.9	28
21	Stereoscopic (3D) versus monoscopic (2D) laparoscopy: comparative study of performance using advanced HD optical systems in a surgical simulator model. World Journal of Urology, 2016, 34, 471-477.	1.2	27
22	A High-Fidelity Phantom for the Simulation and Quantitative Evaluation of Transurethral Resection of the Prostate. Annals of Biomedical Engineering, 2020, 48, 437-446.	1.3	25
23	Automated Analysis of Urinary Stone Composition Using Raman Spectroscopy: Pilot Study for the Development of a Compact Portable System for Immediate Postoperative ExÂVivo Application. Journal of Urology, 2013, 190, 1895-1900.	0.2	24
24	In Vitro Dusting Performance of a New Solid State Thulium Laser Compared to Holmium Laser Lithotripsy. Journal of Endourology, 2021, 35, 221-225.	1.1	24
25	European Association of Urology Section of Urolithiasis and International Alliance of Urolithiasis Joint Consensus on Retrograde Intrarenal Surgery for the Management of Renal Stones. European Urology Focus, 2022, 8, 1461-1468.	1.6	23
26	Pre-bent instruments used in single-port laparoscopic surgery versus conventional laparoscopic surgery: comparative study of performance in a dry lab. Surgical Endoscopy and Other Interventional Techniques, 2012, 26, 1924-1930.	1.3	22
27	Endoscopically Determined Stone Clearance Predicts Disease Recurrence Within 5 Years After Retrograde Intrarenal Surgery. Journal of Endourology, 2016, 30, 644-649.	1.1	22
28	Wireless Acoustic-Surface Actuators for Miniaturized Endoscopes. ACS Applied Materials & Interfaces, 2017, 9, 42536-42543.	4.0	21
29	Artificial Intelligence in Magnetic Resonance Imagingâ€“based Prostate Cancer Diagnosis: Where Do We Stand in 2021?. European Urology Focus, 2022, 8, 409-417.	1.6	21
30	Focused Dual-energy CT Maintains Diagnostic and Compositional Accuracy for Urolithiasis Using Ultralow-dose Noncontrast CT. Urology, 2015, 86, 1097-1103.	0.5	20
31	Online Discussion on #KidneyStones: A Longitudinal Assessment of Activity, Users and Content. PLoS ONE, 2016, 11, e0160863.	1.1	20
32	Robotic stone surgery â€“ Current state and future prospects: A systematic review. Arab Journal of Urology Arab Association of Urology, 2018, 16, 357-364.	0.7	19
33	Validating Automated Kidney Stone Volumetry in CT and Mathematical Correlation with Estimated Stone Volume Based on Diameter. Journal of Endourology, 2018, 32, 659-664.	1.1	19
34	In Vitro Effects of a Novel Coating Agent on Bacterial Biofilm Development on Ureteral Stents. Journal of Endourology, 2019, 33, 225-231.	1.1	19
35	Novel Biocompatible Adhesive for Intrarenal Embedding and Endoscopic Removal of Small Residual Fragments after Minimally Invasive Stone Treatment in an ExÂVivo Porcine Kidney Model: Initial Evaluation of a Prototype. Journal of Urology, 2016, 196, 1772-1777.	0.2	18
36	Mixed reality applications in urology: Requirements and future potential. Annals of Medicine and Surgery, 2021, 66, 102394.	0.5	18

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37	Current European Trends in Endoscopic Imaging and Transurethral Resection of Bladder Tumors. Journal of Endourology, 2020, 34, 312-321.	1.1	17
38	Experimental Evaluation of Human Kidney Stone Spectra for Intraoperative Stone-Tissue-Instrument Analysis Using Autofluorescence. Journal of Urology, 2019, 201, 182-188.	0.2	17
39	Ultralow Radiation Exposure During Flexible Ureteroscopy in Patients With Nephrolithiasisâ€"How Far Can We Go?. Urology, 2017, 108, 34-39.	0.5	16
40	Image-based 3D surface approximation of the bladder using structure-from-motion for enhanced cystoscopy based on phantom data. Biomedizinische Technik, 2018, 63, 461-466.	0.9	16
41	Temperature Assessment of a Novel Pulsed Thulium Solid-State Laser Compared with a Holmium:Yttrium-Aluminum-Garnet Laser. Journal of Endourology, 2021, 35, 853-859.	1.1	16
42	Use of Artificial Intelligence for Medical Literature Search: Randomized Controlled Trial Using the Hackathon Format. Interactive Journal of Medical Research, 2020, 9, e16606.	0.6	16
43	In vitro fragmentation performance of a novel, pulsed Thulium solid-state laser compared to a Thulium fibre laser and standard Ho:YAG laser. Lasers in Medical Science, 2022, 37, 2071-2078.	1.0	15
44	Surgical therapy of prostatitis: a systematic review. World Journal of Urology, 2017, 35, 1659-1668.	1.2	14
45	Performance of Single-Use FlexorVue vs Reusable BoaVision Ureteroscope for Visualization of Calices and Stone Extraction in an Artificial Kidney Model. Journal of Endourology, 2017, 31, 1139-1144.	1.1	14
46	Retropulsion force in laser lithotripsyâ€"an in vitro study comparing a Holmium device to a novel pulsed solid-state Thulium laser. World Journal of Urology, 2021, 39, 3651-3656.	1.2	14
47	Dusting Efficiency of a Novel Pulsed Thulium:Yttrium Aluminum Garnet Laser vs a Thulium Fiber Laser. Journal of Endourology, 2022, 36, 259-265.	1.1	14
48	Safety and Efficacy of Laser Enucleation of the Prostate in Elderly Patients â€“ A Narrative Review. Clinical Interventions in Aging, 2022, Volume 17, 15-33.	1.3	14
49	Predictive Power of Objectivation of Phimosis Grade on Outcomes of Topical 0.1% Betamethasone Treatment of Phimosis. Urology, 2012, 80, 412-416.	0.5	13
50	Is in vivo analysis of urinary stone composition feasible? Evaluation of an experimental setup of a Raman system coupled to commercial lithotripsy laser fibers. World Journal of Urology, 2015, 33, 1593-1599.	1.2	12
51	Adherence to European Association of Urology and National Comprehensive Cancer Network Guidelines Criteria for Inguinal and Pelvic Lymph Node Dissection in Penile Cancer Patientsâ€"A Survey Assessment in German-speaking Countries on Behalf of the European Prospective Penile Cancer Study Group. European Urology Focus, 2021, 7, 843-849.	1.6	12
52	Health-Related Quality of Life and Sexual Function in Patients Treated for Penile Cancer. Urologia Internationalis, 2018, 101, 351-357.	0.6	11
53	Reasons for new MIS. Let's be fair: iTIND, Urolift and RezÅ«m. World Journal of Urology, 2021, 39, 2315-2327.	1.2	11
54	Current Disposable Ureteroscopes: Performance and Limitations in a Standardized Kidney Model. Journal of Endourology, 2020, 34, 1015-1020.	1.1	11

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55	Safety and side effects of transperineal prostate biopsy without antibiotic prophylaxis. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 782.e1-782.e5.	0.8	11
56	Comprehensive analysis of complications after transperineal prostate biopsy without antibiotic prophylaxis: results of a multicenter trial with 30 daysâ€™ follow-up. Prostate Cancer and Prostatic Diseases, 2022, 25, 264-268.	2.0	11
57	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. Journal of Urology, 2019, 202, 1263-1269.	0.2	11
58	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. International Braz J Urol: Official Journal of the Brazilian Society of Urology, 2014, 40, 330-336.	0.7	10
59	Level of evidence, sponsorship, conflict of interest policy and commercial impact of PubMedâ€listed clinical urolithiasisâ€related trials in 2014. BJU International, 2016, 117, 787-792.	1.3	10
60	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. World Journal of Urology, 2018, 36, 673-680.	1.2	10
61	Efficacy and safety of aquablation of the prostate for patients with symptomatic benign prostatic enlargement: a systematic review. World Journal of Urology, 2020, 38, 1147-1163.	1.2	10
62	A novel endoimaging system for endoscopic 3D reconstruction in bladder cancer patients. Minimally Invasive Therapy and Allied Technologies, 2022, 31, 34-41.	0.6	10
63	Current Standards in the Endoscopic Management of Bladder Cancer: A Survey Evaluation among Urologists in German-Speaking Countries. Urologia Internationalis, 2020, 104, 410-416.	0.6	10
64	Radiation exposure during retrograde intrarenal surgery (RIRS): a prospective multicenter evaluation. World Journal of Urology, 2021, 39, 217-224.	1.2	10
65	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. World Journal of Urology, 2015, 33, 51-57.	1.2	9
66	Characterization of Flow-Caused Intrarenal Pressure Conditions During Percutaneous Nephrolithotomy In Vitro. Journal of Endourology, 2019, 33, 235-241.	1.1	9
67	Gas Bubble Anatomy During Laser Lithotripsy: An Experimental In Vitro Study of a Pulsed Solid-State Tm:YAG and Ho:YAG Device. Journal of Endourology, 2021, 35, 1051-1057.	1.1	9
68	Laser-guided real-time automatic target identification for endoscopic stone lithotripsy: a two-arm in vivo porcine comparison study. World Journal of Urology, 2021, 39, 2719-2726.	1.2	9
69	Portable Ultrasound Research System for Use in Automated Bladder Monitoring with Machine-Learning-Based Segmentation. Sensors, 2021, 21, 6481.	2.1	9
70	Incidental prostate cancer after holmium laser enucleation of the prostateâ€”A narrative review. Andrologia, 2022, 54, e14332.	1.0	9
71	Complete Removal of the Foreskin â€“ Why?. Urologia Internationalis, 2011, 86, 383-387.	0.6	8
72	Automatic speech recognition in the operating room â€“ An essential contemporary tool or a redundant gadget? A survey evaluation among physicians in form of a qualitative study. Annals of Medicine and Surgery, 2020, 59, 81-85.	0.5	8

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73	Morcellation After Endoscopic Enucleation of the Prostate: Efficiency and Safety of Currently Available Devices. European Urology Focus, 2022, 8, 532-544.	1.6	8
74	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. World Journal of Urology, 2022, 40, 601-606.	1.2	8
75	New for Oldâ€“Coagulum Lithotomy vs a Novel Bioadhesive for Complete Removal of Stone Fragments in a Comparative Study in an Ex Vivo Porcine Model. Journal of Endourology, 2017, 31, 611-616.	1.1	7
76	Soft Urinary Bladder Phantom for Endoscopic Training. Annals of Biomedical Engineering, 2021, 49, 2412-2420.	1.3	7
77	Endourological Training Using 3D-Printed Bladder Phantoms: Development and Prospective Evaluation. Journal of Endourology, 2021, 35, 1257-1264.	1.1	7
78	Bringing excellence into urology: How to improve the future training of residents?. Arab Journal of Urology Arab Association of Urology, 2014, 12, 15-20.	0.7	6
79	Algorithm-Based Motion Magnification for Video Processing in Urological Laparoscopy. Journal of Endourology, 2017, 31, 583-587.	1.1	6
80	Robotic waterjet wound debridement â€“ Workflow adaption for clinical application and systematic evaluation of a novel technology. PLoS ONE, 2018, 13, e0204315.	1.1	6
81	YouTube is inadequate as an information source on delayed ejaculation. International Journal of Impotence Research, 2023, 35, 392-397.	1.0	6
82	Analgesia-free flexible ureteroscopic treatment and laser lithotripsy for removal of a large urinary stone: a case report. Journal of Medical Case Reports, 2015, 9, 225.	0.4	5
83	Flexible Vesiculovasoscopy Using a Microoptical System in a Human Cadaver Model: An Experimental Approach for Atraumatic Endoscopy of the Seminal Tract. Journal of Endourology, 2016, 30, 934-938.	1.1	5
84	Laser procedures in the treatment of BPH: a bibliometric study. World Journal of Urology, 2021, 39, 2903-2911.	1.2	5
85	Explainable artificial intelligence (XAI): closing the gap between image analysis and navigation in complex invasive diagnostic procedures. World Journal of Urology, 2022, 40, 1125-1134.	1.2	5
86	The Glandular Resection and Central Embedding Modification (GRACE) in Duckett and Barcat Hypospadias Repair. Urologia Internationalis, 2013, 90, 358-364.	0.6	4
87	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. Urologia Internationalis, 2019, 102, 187-193.	0.6	4
88	Preclinical and Clinical Evaluation of a Novel, Variable-View, Rigid Endoscope for Female Cystoscopy. Urology, 2020, 142, 231-236.	0.5	4
89	Metabolic Imaging of Urothelial Carcinoma by Simultaneous Autofluorescence Lifetime Imaging (FLIM) of NAD(P)H and FAD. Clinical Genitourinary Cancer, 2021, 19, e31-e36.	0.9	4
90	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. World Journal of Urology, 2021, 39, 4381-4388.	1.2	4

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91	Complete Occlusion of a Subcutaneous Pyelovesical Bypass Graft (DetourÂ® System) Caused by Uric Acid Stone Formation. Urologia Internationalis, 2017, 98, 483-485.	0.6	3
92	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. World Journal of Urology, 2018, 36, 1111-1116.	1.2	3
93	Is There an Oncological Benefit of Performing Bilateral Pelvic Lymph Node Dissection in Patients with Penile Cancer and Inguinal Lymph Node Metastasis?. Journal of Clinical Medicine, 2021, 10, 754.	1.0	3
94	Evaluation of the Ginsburg Scheme: Where Is Significant Prostate Cancer Missed?. Cancers, 2021, 13, 2502.	1.7	3
95	Benign Prostatic Hyperplasia Treatment On Its Way to Precision Medicine: Dream or Reality?. European Urology Focus, 2022, , .	1.6	3
96	The stone surgeon in the mirror: how are German-speaking urologists treating large renal stones today?. World Journal of Urology, 2018, 36, 467-473.	1.2	2
97	Low-pressure monopolar electroresection of the prostate for glands sizedÂ>Â70 vs.Â<Â70Âcc performed with continuous irrigation and suprapubic suction: perioperative and long-term outcome. World Journal of Urology, 2018, 36, 449-457.	1.2	2
98	Impact of Thermo-Expandable Memokath Ureteral Stent on Renal Function in the Management of Ureteroileal Anastomotic Stricture. Urologia Internationalis, 2018, 101, 313-319.	0.6	2
99	Urethral flap glanuloplasty after partial penectomy for penile carcinoma: Evaluation of urinary, sexual and quality of life outcomes. Urology Case Reports, 2019, 23, 58-59.	0.1	2
100	Prospects and Challenges of Artificial Intelligence and Computer Science for the Future of Urology. World Journal of Urology, 2020, 38, 2325-2327.	1.2	2
101	Panoramic Imaging Assessment of Different Bladder Phantoms â€“ An Evaluation Study. Urology, 2021, 156, e103-e110.	0.5	2
102	Thermal effects of thulium: YAG laser treatment of the prostateâ€”an in vitro study. World Journal of Urology, 2021, , 1.	1.2	2
103	Ex-vivo evaluation of miniaturized probes for endoscopic optical coherence tomography in urothelial cancer diagnostics. Annals of Medicine and Surgery, 2022, 77, .	0.5	2
104	Modified salvage endoscopic combined intrarenal surgery in a single functional kidney with refractory staghorn stone. Urology Case Reports, 2019, 23, 13-14.	0.1	1
105	Feasibility of an Updated Randomised Controlled Trial on Surgical Urolithiasis Treatments: The Pilot Trial for the German Endoscopic versus Shock Wave Therapy Study (GESS). European Urology Focus, 2022, 8, 271-275.	1.6	1
106	Evaluation of functional parameters, patient-reported outcomes and workload related to continuous urinary bladder irrigation after transurethral surgery. Translational Andrology and Urology, 2021, 10, 2921-2928.	0.6	1
107	Safe Hb Concentration Measurement during Bladder Irrigation Using Artificial Intelligence. Sensors, 2021, 21, 5723.	2.1	1
108	Authors' Response to Garg et al.. Journal of Endourology, 2013, 27, 504-505.	1.1	0

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109	Is Endoscopic Vasectomy Just a Dream: An ex vivo Study on Feasibility and Reliability of Endoluminal Occlusion of Porcine Vas Deferens. Urologia Internationalis, 2017, 99, 467-475.	0.6	0
110	Holmium laser vaporization and percutaneous removal of aÂmigrated endothelialized biliary self-expanding metal stent. VideoGIE, 2019, 4, 269-270.	0.3	0
111	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. J Endourol 2019;33:232â€“233;) Tj ETQq1 1 0.784314 r	0.7	0
112	Editorial. Current Opinion in Urology, 2019, 29, 79-80.	0.9	0
113	Therapy-Refractory Matrix Staghorn in a Kidney Transplant Recipient: Endoscopic Percutaneous Morcellation as a Novel Treatment Option. Journal of Endourology Case Reports, 2020, 6, 209-212.	0.3	0
114	Track and Teach: Identifying Key Movement Patterns in Endoscopic Transurethral Enucleation of the Prostate. Urologia Internationalis, 2021, 105, 835-845.	0.6	0
115	Holmium laser enucleation of an esophageal leiomyoma in endoscopic tunnel technique. VideoGIE, 2021, 6, 250-251.	0.3	0
116	A novel laser lithotripsy system with automatic target recognition: from bench to bedside. Comptes Rendus Chimie, 2022, 25, 417-423.	0.2	0
117	Interventionelle Therapie: Wann und wie?. , 2021, , 73-85.		0
118	Flexible Vesiculo-Vasoscopy Using a Micro-Optical System in a Human Cadaver Model: An Experimental Approach for Atraumatic Endoscopy of the Seminal Tract. Videourology (New Rochelle, N Y), 2016, 30, .	0.1	0
119	Reply by Authors. Journal of Urology, 2019, 202, 1269-1269.	0.2	0
120	The impact of diabetes mellitus on urinary continence after holmium laser enucleation of the prostate due to lower urinary tract symptoms: a retrospective study. Central European Journal of Urology, 2021, 74, 535-540.	0.2	0
121	Smartphone Apps for Managing Antithrombotic Therapy: Scoping Literature Review. JMIR Cardio, 2022, 6, e29481.	0.7	0
122	Data Mining in Urology: Understanding Real-world Treatment Pathways for Lower Urinary Tract Systems via Exploration of Big Data. European Urology Focus, 2022, , .	1.6	0
123	Temperature assessment study of ex vivo holmium laser enucleation of the prostate model. World Journal of Urology, 0, , .	1.2	0