

Dirk Lange

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,704
citations

471509

17
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

2370
citing authors

#	ARTICLE	IF	CITATIONS
1	The biocompatibility and biofilm resistance of implant coatings based on hydrophilic polymer brushes conjugated with antimicrobial peptides. <i>Biomaterials</i> , 2011, 32, 3899-3909.	11.4	351
2	Anti-adhesive antimicrobial peptide coating prevents catheter associated infection in a mouse urinary infection model. <i>Biomaterials</i> , 2017, 116, 69-81.	11.4	203
3	Renal struvite stonesâ€™ pathogenesis, microbiology, and management strategies. <i>Nature Reviews Urology</i> , 2014, 11, 333-341.	3.8	172
4	Ureteral stent-associated complicationsâ€™ where we are and where we are going. <i>Nature Reviews Urology</i> , 2015, 12, 17-25.	3.8	141
5	Bacterial Sepsis After Prostate Biopsyâ€™ A New Perspective. <i>Urology</i> , 2009, 74, 1200-1205.	1.0	77
6	Ureteral Stents and Foley Catheters-Associated Urinary Tract Infections: The Role of Coatings and Materials in Infection Prevention. <i>Antibiotics</i> , 2014, 3, 87-97.	3.7	74
7	Toward Infection-Resistant Surfaces: Achieving High Antimicrobial Peptide Potency by Modulating the Functionality of Polymer Brush and Peptide. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28591-28605.	8.0	73
8	Current insights into the mechanisms and management of infection stones. <i>Nature Reviews Urology</i> , 2019, 16, 35-53.	3.8	63
9	Uropathogen Interaction With the Surface of Urological Stents Using Different Surface Properties. <i>Journal of Urology</i> , 2009, 182, 1194-1200.	0.4	57
10	Next Generation Biodegradable Ureteral Stent in a Yucatan Pig Model. <i>Journal of Urology</i> , 2010, 183, 765-771.	0.4	57
11	A Randomized Controlled Trial of Preoperative Prophylactic Antibiotics Prior to Percutaneous Nephrolithotomy in a Low Infectious Risk Population: A Report from the EDGE Consortium. <i>Journal of Urology</i> , 2018, 200, 801-808.	0.4	42
12	Ureteral stent-associated infection and sepsis: pathogenesis and prevention: a review. <i>Biofouling</i> , 2019, 35, 117-127.	2.2	42
13	Stents for malignant ureteral obstruction. <i>Asian Journal of Urology</i> , 2016, 3, 142-149.	1.2	28
14	Evaluating factors that dictate struvite stone composition: A multi-institutional clinical experience from the EDGE Research Consortium. <i>Canadian Urological Association Journal</i> , 2017, 12, 131-6.	0.6	27
15	Evaluation of Biofilm Induced Urinary Infection Stone Formation in a Novel Laboratory Model System. <i>Journal of Urology</i> , 2018, 199, 178-185.	0.4	25
16	Prevention and management of urosepsis triggered by ureteroscopy. <i>Research and Reports in Urology</i> , 2018, Volume 10, 43-49.	1.0	25
17	Mechanically enhanced nested-network hydrogels as a coating material for biomedical devices. <i>Acta Biomaterialia</i> , 2018, 70, 98-109.	8.3	21
18	Fluid mechanical modeling of the upper urinary tract. <i>WIREs Mechanisms of Disease</i> , 2021, 13, e1523.	3.3	18

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19	Problems and solutions of stent biofilm and encrustations: A review of literature. Turkish Journal of Urology, 2020, 46, S11-S18.	1.3	18
20	Durable Surfaces from Film-Forming Silver Assemblies for Long-Term Zero Bacterial Adhesion without Toxicity. ACS Central Science, 2022, 8, 546-561.	11.3	18
21	A Role for the Hedgehog Effector Gli1 in Mediating Stent-induced Ureteral Smooth Muscle Dysfunction and Aperistalsis. Urology, 2017, 104, 242.e1-242.e8.	1.0	17
22	In Vivo Entombment of Bacteria and Fungi during Calcium Oxalate, Brushite, and Struvite Urolithiasis. Kidney360, 2021, 2, 298-311.	2.1	14
23	Current and Potential Applications of Host-Defense Peptides and Proteins in Urology. BioMed Research International, 2015, 2015, 1-9.	1.9	13
24	The Combined Use of Gentamicin and Silver Nitrate in Bone Cement for a Synergistic and Extended Antibiotic Action against Gram-Positive and Gram-Negative Bacteria. Materials, 2021, 14, 3413.	2.9	13
25	The Design, Characterization and Antibacterial Activity of Heat and Silver Crosslinked Poly(Vinyl Tj ETQq1 1 0.784314 rgBT /Overlock	4.1	12
26	Use of the Quick Sequential Organ Failure Assessment Score for Prediction of Intensive Care Unit Admission Due to Septic Shock after Percutaneous Nephrolithotomy: A Multicenter Study. Journal of Urology, 2019, 202, 314-318.	0.4	12
27	A High Throughput, Minimally Invasive, Ultrasound Guided Model for the Study of Catheter Associated Urinary Tract Infections and Device Encrustation in Mice. Journal of Urology, 2014, 192, 1856-1863.	0.4	11
28	Determination of urinary prostaglandin E2 as a potential biomarker of ureteral stent associated inflammation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1145, 122107.	2.3	11
29	Predictors of urosepsis in struvite stone patients after percutaneous nephrolithotomy. Investigative and Clinical Urology, 2021, 62, 201.	2.0	11
30	Erythropoietin Accelerates the Regeneration of Ureteral Function in a Murine Model of Obstructive Uropathy. Journal of Urology, 2015, 193, 714-721.	0.4	8
31	Uropathogens Preferentially Interact with Conditioning Film Components on the Surface of Indwelling Ureteral Stents Rather than Stent Material. Pathogens, 2020, 9, 764.	2.8	7
32	Erythropoietin promotes functional recovery via anti-apoptotic mechanisms in mouseÂ unilateral ureteral obstruction. Cell Stress and Chaperones, 2020, 25, 245-251.	2.9	7
33	The Interaction of Urinary Components with Biomaterials in the Urinary Tract: Ureteral Stent Discoloration. Journal of Endourology, 2020, 34, 608-616.	2.1	6
34	Application of multisegment injection on quantification of creatinine and standard addition analysis of urinary 5â€hydroxyindoleacetic acid simultaneously with creatinine normalization. Electrophoresis, 2020, 41, 183-193.	2.4	6
35	The accumulation of particles in ureteric stents is mediated by flow dynamics: Full-scale computational and experimental modeling of the occluded and unoccluded ureter. APL Bioengineering, 2022, 6, 026102.	6.2	6
36	Intelligent Ureteral Stent for Early Detection of Hydronephrosis. Advanced Materials Technologies, 2021, 6, 2100652.	5.8	5

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37	Migration time correction for dual pressure capillary electrophoresis in semi-targeted metabolomics study. <i>Electrophoresis</i> , 2022, 43, 1626-1637.	2.4	5
38	The link between antibiotic exposure and kidney stone disease. <i>Annals of Translational Medicine</i> , 2018, 6, 371-371.	1.7	3
39	The Development of Solvent Cast Films or Electrospun Nanofiber Membranes Made from Blended Poly Vinyl Alcohol Materials with Different Degrees of Hydrolyzation for Optimal Hydrogel Dissolution and Sustained Release of Anti-Infective Silver Salts. <i>Nanomaterials</i> , 2021, 11, 84.	4.1	3
40	Mediators of human ureteral smooth muscle contraction—a role for erythropoietin, tamsulosin and Gli effectors. <i>Translational Andrology and Urology</i> , 2021, 10, 2953-2961.	1.4	2
41	Response to Kallidonis and Tsaturyan re: “The Interaction of Urinary Components with Biomaterials in the Urinary Tract: Ureteral Stent Discoloration” by Chew et al. (<i>J Endourol</i> 2020;34(5):616–617; DOI: 10.7843/4rgBT		