

Axel Kramer

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

5,970
citations

136950

32
h-index

74163

75
g-index

101
all docs

101
docs citations

101
times ranked

6485
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro response of THP-1 derived macrophages to antimicrobially effective PHMB-coated Ti6Al4V alloy implant material with and without contamination with <i>S. epidermidis</i> and <i>P. aeruginosa</i> . <i>Biomaterials Research</i> , 2022, 26, 1.	6.9	26
2	The clinical impact of preoperative biliary drainage on isolated infectious complications (iiC) after pancreatic head resection—a retrospective study. <i>BMC Surgery</i> , 2022, 22, 71.	1.3	2
3	The epidemiological relevance of the COVID-19-vaccinated population is decreasing after booster vaccination, as shown by incidence rate ratios. <i>Lancet Regional Health - Europe</i> , The, 2022, 16, 100372.	5.6	1
4	Ethanol is indispensable for virucidal hand antiseptics: memorandum from the alcohol-based hand rub (ABHR) Task Force, WHO Collaborating Centre on Patient Safety, and the Commission for Hospital Hygiene and Infection Prevention (KRINKO), Robert Koch Institute, Berlin, Germany. <i>Antimicrobial Resistance and Infection Control</i> , 2022, 11, .	4.1	8
5	Coronavirus Pandemic — SARS-CoV-2 in Orthopedics and Trauma Surgery. <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2021, 159, 25-31.	0.7	3
6	Comparison of the antimicrobial efficacy of povidone-iodine-alcohol versus chlorhexidine-alcohol for surgical skin preparation on the aerobic and anaerobic skin flora of the shoulder region. <i>Antimicrobial Resistance and Infection Control</i> , 2021, 10, 17.	4.1	25
7	Hygienemaßnahmen in der Allgemein- und Viszeralchirurgie. , 2021, , 37-52.		0
8	Release of the model drug SR101 from polyurethane nanocapsules in porcine hair follicles triggered by LED-derived low dose UVA light. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120339.	5.2	9
9	<i>Staphylococcus aureus</i> nasal colonization among dental health care workers in Northern Germany (StaphDent study). <i>International Journal of Medical Microbiology</i> , 2021, 311, 151524.	3.6	4
10	Improved Adsorption of the Antimicrobial Agent Poly (Hexamethylene) Biguanide on Ti-Al-V Alloys by NaOH Treatment and Impact of Mass Coverage and Contamination on Cytocompatibility. <i>Coatings</i> , 2021, 11, 1118.	2.6	1
11	Influence of Bio-sorb [®] Cream on Sweat Production and Efficacy of Surgical Hand Antisepsis Under Surgical Gloves. <i>Surgical Infections</i> , 2020, 21, 293-298.	1.4	4
12	Poly (hexamethylene biguanide), adsorbed onto Ti-Al-V alloys, kills slime-producing <i>Staphylococci</i> and <i>Pseudomonas aeruginosa</i> without inhibiting <i>SaOs</i> cell differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1801-1813.	3.4	6
13	Gas Plasma Technology—An Asset to Healthcare During Viral Pandemics Such as the COVID-19 Crisis?. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 391-399.	3.7	28
14	Dealing with the COVID-19 pandemic in orthopaedics: experiences and procedure in Germany. <i>Bone & Joint Open</i> , 2020, 1, 309-315.	2.6	5
15	In vitro evaluation of contact-active antibacterial efficacy of Ti-Al-V alloys coated with the antimicrobial agent PHMB. <i>Acta Biomaterialia</i> , 2020, 106, 376-386.	8.3	16
16	Cold atmospheric plasma inhibits the growth of osteosarcoma cells by inducing apoptosis, independent of the device used. <i>Oncology Letters</i> , 2020, 19, 283-290.	1.8	22
17	Chemical disinfection in healthcare settings: critical aspects for the development of global strategies. <i>GMS Hygiene and Infection Control</i> , 2020, 15, Doc36.	0.3	5
18	Re-evaluation of polihexanide use in wound antisepsis in order to clarify ambiguities of two animal studies. <i>Journal of Wound Care</i> , 2019, 28, 246-255.	1.2	20

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19	Inhibition of microbial growth by cold atmospheric plasma compared with the antiseptics chlorhexidine digluconate, octenidine dihydrochloride, and polyhexanide. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800162.	3.0	2
20	Overexpression of MicroRNA-1 in Prostate Cancer Cells Modulates the Blood Vessel System of an In Vivo Hen's Egg Test – Chorioallantoic Membrane Model. <i>In Vivo</i> , 2019, 33, 41-46.	1.3	4
21	Effects and safety of atmospheric low-temperature plasma on bacterial reduction in chronic wounds and wound size reduction: A systematic review and meta-analysis. <i>International Wound Journal</i> , 2019, 16, 103-111.	2.9	61
22	Irritative potency of selected wound antiseptics in the hen's egg test on chorioallantoic membrane to predict their compatibility to wounds. <i>Wound Repair and Regeneration</i> , 2019, 27, 183-189.	3.0	17
23	Bacterobilia in pancreatic surgery-conclusions for perioperative antibiotic prophylaxis. <i>World Journal of Gastroenterology</i> , 2019, 25, 6238-6247.	3.3	25
24	High throughput image cytometry micronucleus assay to investigate the presence or absence of mutagenic effects of cold physical plasma. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 268-277.	2.2	55
25	Consensus on Wound Antisepsis: Update 2018. <i>Skin Pharmacology and Physiology</i> , 2018, 31, 28-58.	2.5	200
26	Application in Veterinary Medicine. , 2018, , 283-297.		2
27	Plasma Application for Hygienic Purposes in Medicine, Industry, and Biotechnology: Update 2017. , 2018, , 253-281.		3
28	Consensus recommendation: Indications and methods for microbiological wound diagnostics. <i>Wound Medicine</i> , 2018, 23, 53-57.	2.7	1
29	Effect of hand lotion on the effectiveness of hygienic hand antisepsis: Implications for practicing hand hygiene. <i>American Journal of Infection Control</i> , 2017, 45, 835-838.	2.3	10
30	Repeated Cold Atmospheric Plasma Application to Intact Skin Does Not Cause Sensitization in a Standardized Murine Model. <i>Plasma Medicine</i> , 2017, 7, 383-393.	0.6	17
31	Cold Atmospheric Plasma in the Treatment of Osteosarcoma. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2004.	4.1	44
32	Peroxiredoxin Expression of Human Osteosarcoma Cells Is Influenced by Cold Atmospheric Plasma Treatment. <i>Anticancer Research</i> , 2017, 37, 1031-1038.	1.1	22
33	Antibiotic resistance: What is so special about multidrug-resistant Gram-negative bacteria?. <i>GMS Hygiene and Infection Control</i> , 2017, 12, Doc05.	0.3	181
34	Ethanol and ethyl glucuronide urine concentrations after ethanol-based hand antisepsis with and without permitted alcohol consumption. <i>American Journal of Infection Control</i> , 2016, 44, 999-1003.	2.3	9
35	Antibacterial Activity of Cold Atmospheric Pressure Argon Plasma against 78 Genetically Different (<i>Staphylococcus aureus</i>, <i>Pseudomonas aeruginosa</i>, <i>Klebsiella pneumoniae</i>, <i>Escherichia coli</i>, <i>Acinetobacter baumannii</i>, <i>Stenotrophomonas maltophilia</i>, <i>Serratia marcescens</i>, <i>Enterobacter cloacae</i>, <i>Enterobacter aerogenes</i>, <i>Enterobacter faecalis</i>, <i>Enterobacter gergelyi</i>, <i>Enterobacter sakae</i>, <i>Enterobacter cloacae</i> Strains. <i>Skin Pharmacology and Physiology</i> , 2016, 29, 83-91.	2.5	26
36	Aktueller und perspektivischer Einsatz kalter Plasmen aus hygienischer Indikation. , 2016, , 137-155.		1

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37	Antibacterial and antiplaque efficacy of a commercially available octenidine-containing mouthrinse. <i>Clinical Oral Investigations</i> , 2016, 20, 1469-1476.	3.0	16
38	Investigating the Mutagenicity of a Cold Argon-Plasma Jet in an HET-MN Model. <i>PLoS ONE</i> , 2016, 11, e0160667.	2.5	91
39	New Treatment Options for Osteosarcoma – Inactivation of Osteosarcoma Cells by Cold Atmospheric Plasma. <i>Anticancer Research</i> , 2016, 36, 5915-5922.	1.1	30
40	Improving hospital hygiene to reduce the impact of multidrug-resistant organisms in health care—a prospective controlled multicenter study. <i>BMC Infectious Diseases</i> , 2015, 15, 441.	2.9	8
41	Combined antibacterial effects of tissue-tolerable plasma and a modern conventional liquid antiseptic on chronic wound treatment. <i>Journal of Biophotonics</i> , 2015, 8, 382-391.	2.3	68
42	Cold Physical Plasmas in the Field of Hygiene—Relevance, Significance, and Future Applications. <i>Plasma Processes and Polymers</i> , 2015, 12, 1410-1422.	3.0	45
43	Cold Atmospheric Plasma Treatment Induces Anti-Proliferative Effects in Prostate Cancer Cells by Redox and Apoptotic Signaling Pathways. <i>PLoS ONE</i> , 2015, 10, e0130350.	2.5	101
44	New Strategies for Preoperative Skin Antisepsis. <i>Skin Pharmacology and Physiology</i> , 2014, 27, 283-292.	2.5	35
45	Practice of skin protection and skin care among German surgeons and influence on the efficacy of surgical hand disinfection and surgical glove perforation. <i>BMC Infectious Diseases</i> , 2014, 14, 315.	2.9	17
46	Poly (hexamethylene biguanide) adsorption on hydrogen peroxide treated Ti-Al-V alloys and effects on wettability, antimicrobial efficacy, and cytotoxicity. <i>Biomaterials</i> , 2014, 35, 5261-5277.	11.4	30
47	Survival of Microorganisms on Inanimate Surfaces. , 2014, , 7-26.		43
48	Efficacy of Tissue Tolerable Plasma (TTP) against <i>Ixodes ricinus</i> . <i>GMS Hygiene and Infection Control</i> , 2014, 9, Doc04.	0.3	2
49	Interaction of polyhexamethylene biguanide hydrochloride (PHMB) with phosphatidylcholine containing o/w emulsion and consequences for microbicidal efficacy and cytotoxicity. <i>Chemico-Biological Interactions</i> , 2013, 201, 58-64.	4.0	27
50	Human Mononuclear Cell Survival and Proliferation is Modulated by Cold Atmospheric Plasma Jet. <i>Plasma Processes and Polymers</i> , 2013, 10, 706-713.	3.0	76
51	Antimicrobial Efficacy of an Atmospheric Pressure Plasma Jet Against Biofilms of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus epidermidis</i> . <i>Plasma Processes and Polymers</i> , 2013, 10, 161-166.	3.0	56
52	Antimicrobial Efficacy of Two Surface Barrier Discharges with Air Plasma against In Vitro Biofilms. <i>PLoS ONE</i> , 2013, 8, e70462.	2.5	66
53	Cold Physical Plasma Treatment Alters Redox Balance in Human Immune Cells. <i>Plasma Medicine</i> , 2013, 3, 267-278.	0.6	50
54	Microbial contamination of manually reprocessed, ready to use ECG lead wire in intensive care units. <i>GMS Hygiene and Infection Control</i> , 2013, 8, Doc07.	0.3	13

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55	The role of surface disinfection in infection prevention. GMS Hygiene and Infection Control, 2013, 8, Doc10.	0.3	40
56	One-day point prevalence of emerging bacterial pathogens in a nationwide sample of 62 German hospitals in 2012 and comparison with the results of the one-day point prevalence of 2010. GMS Hygiene and Infection Control, 2013, 8, Doc12.	0.3	9
57	Dermal and pulmonary absorption of propan-1-ol and propan-2-ol from hand rubs. American Journal of Infection Control, 2012, 40, 250-257.	2.3	26
58	Cost comparison of MRSA screening and management – a decision tree analysis. BMC Health Services Research, 2012, 12, 438.	2.2	43
59	Tissue Tolerable Plasma (TTP) induces apoptosis in pancreatic cancer cells in vitro and in vivo. BMC Cancer, 2012, 12, 473.	2.6	218
60	The modified HET-CAM as a model for the assessment of the inflammatory response to tissue tolerable plasma. Toxicology in Vitro, 2011, 25, 530-537.	2.4	43
61	Original Research: Survival of Bacterial Pathogens on Paper and Bacterial Retrieval from Paper to Hands: Preliminary Results. American Journal of Nursing, 2011, 111, 30-34.	0.4	44
62	Corrigendum to: Drug delivery through the skin barrier enhanced by treatment with tissue-tolerable plasma. Experimental Dermatology, 2011, 20, 696-696.	2.9	0
63	Reduced cytotoxicity of polyhexamethylene biguanide hydrochloride (PHMB) by egg phosphatidylcholine while maintaining antimicrobial efficacy. Chemico-Biological Interactions, 2011, 190, 171-178.	4.0	23
64	Practices of skin care among nurses in medical and surgical intensive care units: results of a self-administered questionnaire. GMS Krankenhaushygiene Interdisziplinär, 2011, 6, Doc08.	0.3	9
65	One-day point prevalence of emerging bacterial pathogens in four secondary and five tertiary care German hospitals - results from a pilot study of the German Society for Hospital Hygiene (Deutsche Tj ETQq1 1 0.784314 rgBT /Overbo	0.3	9
66	Perspektiven der Plasmamedizin. Vakuum in Forschung Und Praxis, 2010, 22, 33-38.	0.1	5
67	Effectiveness of alcohol-based hand disinfectants in a public administration: Impact on health and work performance related to acute respiratory symptoms and diarrhoea. BMC Infectious Diseases, 2010, 10, 250.	2.9	59
68	The Irritation Potential of Nonthermal Atmospheric Pressure Plasma in the HET-CAM. Plasma Processes and Polymers, 2010, 7, 318-326.	3.0	32
69	Healthcare associated infection: novel strategies and antimicrobial implants to prevent surgical site infection. Annals of the Royal College of Surgeons of England, 2010, 92, 453-458.	0.6	72
70	Treatment of <i>Candida albicans</i> biofilms with low-temperature plasma induced by dielectric barrier discharge and atmospheric pressure plasma jet. New Journal of Physics, 2010, 12, 073039.	2.9	119
71	Prevention of post-operative infections after surgical treatment of bite wounds. GMS Krankenhaushygiene Interdisziplinär, 2010, 5, .	0.3	7
72	Risk assessment of the application of a plasma jet in dermatology. Journal of Biomedical Optics, 2009, 14, 054025.	2.6	96

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73	Wound dressings from a hygienic point of view using the example of sorbion sachet S. GMS Krankenhaushygiene InterdisziplinÄr, 2009, 4, Doc11.	0.3	1
74	Implementing the MRSA recommendations made by the Commission for Hospital Hygiene and Infection Prevention (KRINKO) of 1999 - current considerations by the DGKH Management Board. GMS Krankenhaushygiene InterdisziplinÄr, 2009, 4, Doc02.	0.3	2
75	Plasma Sterilization: What are the Conditions to Meet this Claim?. Plasma Processes and Polymers, 2008, 5, 534-539.	3.0	56
76	Biocompatibility index of antiseptic agents by parallel assessment of antimicrobial activity and cellular cytotoxicity. Journal of Antimicrobial Chemotherapy, 2008, 61, 1281-1287.	3.0	369
77	Polypragmasia in the therapy of infected wounds - conclusions drawn from the perspectives of low temperature plasma technology for plasma wound therapy. GMS Krankenhaushygiene InterdisziplinÄr, 2008, 3, Doc13.	0.3	11
78	Hand RubÄAssociated Fire Incidents During 25,038 Hospital-Years in Germany. Infection Control and Hospital Epidemiology, 2007, 28, 745-746.	1.8	25
79	Quantity of ethanol absorption after excessive hand disinfection using three commercially available hand rubs is minimal and below toxic levels for humans. BMC Infectious Diseases, 2007, 7, 117.	2.9	86
80	Prospective study to determine the penetration of iodide into the anterior chamber following preoperative application of topical 1.25% povidone-iodine. Graefe's Archive for Clinical and Experimental Ophthalmology, 2007, 245, 789-793.	1.9	16
81	How long do nosocomial pathogens persist on inanimate surfaces? A systematic review. BMC Infectious Diseases, 2006, 6, 130.	2.9	1,812
82	Comparison of different biological methods for the assessment of ecotoxicological risks. International Journal of Hygiene and Environmental Health, 2006, 209, 275-284.	4.3	19
83	Effect of a 1min hand wash on the bactericidal efficacy of consecutive surgical hand disinfection with standard alcohols and on skin hydration. International Journal of Hygiene and Environmental Health, 2006, 209, 285-291.	4.3	42
84	Does a preceding hand wash and drying time after surgical hand disinfection influence the efficacy of a propanol-based hand rub?. BMC Microbiology, 2006, 6, 57.	3.3	27
85	Effect of selected wound antiseptics on adult articular cartilage (bovine sesamoid bone) in the presence of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . Journal of Orthopaedic Research, 2005, 23, 127-133.	2.3	64
86	Epidemiologic Background of Hand Hygiene and Evaluation of the Most Important Agents for Scrubs and Rubs. Clinical Microbiology Reviews, 2004, 17, 863-893.	13.6	600
87	HPLC Determination of the Antiseptic Agent Chlorhexidine and its Degradation Products 4-Chloroaniline and 1-Chloro-4-Nitrobenzene in Serum and Urine. Mikrochimica Acta, 2004, 146, 129-135.	5.0	28
88	In vitro action of combinations of selected antimicrobial agents and adult bovine articular cartilage (sesamoid bone). Chemico-Biological Interactions, 2003, 145, 331-336.	4.0	8
89	Limited efficacy of alcohol-based hand gels. Lancet, The, 2002, 359, 1489-1490.	13.7	185
90	Effects of SCNÄ/H2 O2 combinations in dentifrices on plaque and gingivitis. Journal of Clinical Periodontology, 2001, 28, 270-276.	4.9	14

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91	Efficacy of Cetylpyridinium Chloride Used as Oropharyngeal Antiseptic. <i>Arzneimittelforschung</i> , 2001, 51, 588-595.	0.4	45
92	In vitro action of a combination of selected antimicrobial agents and chondroitin sulfate. <i>Chemico-Biological Interactions</i> , 2000, 124, 77-85.	4.0	22