Thomas von Woedtke

List of Publications by Citations

193	8,931	52	88
papers	citations	h-index	g-index
215	10,516	3.7	6.55
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
193	The Role of Acidification for Antimicrobial Activity of Atmospheric Pressure Plasma in Liquids. *Plasma Processes and Polymers*, **2010**, 7, 250-257	3.4	455
192	Atmospheric-pressure plasma sources: Prospective tools for plasma medicine. *Pure and Applied Chemistry*, **2010**, 82, 1223-1237	2.1	337
191	Atmospheric Pressure Plasma Jet for Medical Therapy: Plasma Parameters and Risk Estimation. *Contributions To Plasma Physics*, **2009**, 49, 631-640	1.4	313
190	Plasma medicine□urrent state of research and medical application. *Plasma Physics and Controlled Fusion*, **2017**, 59, 014031	2	261
189	Non-thermal atmospheric-pressure plasma possible application in wound healing. *Biomolecules and Therapeutics*, **2014**, 22, 477-90	4.2	248
188	The plasma jet kINPen □A powerful tool for wound healing. *Clinical Plasma Medicine*, **2016**, 4, 19-28	2.8	239
187	The kINPen□ review on physics and chemistry of the atmospheric pressure plasma jet and its applications. *Journal Physics D: Applied Physics*, **2018**, 51, 233001	3	205
186	Estimation of Possible Mechanisms of Escherichia coli Inactivation by Plasma Treated Sodium Chloride Solution. *Plasma Processes and Polymers*, **2011**, 8, 904-913	3.4	199
185	Antimicrobial treatment of heat sensitive products by miniaturized atmospheric pressure plasma jets (APPJs). *Journal Physics D: Applied Physics*, **2008**, 41, 194008	3	187
184	Identification of the biologically active liquid chemistry induced by a nonthermal atmospheric pressure plasma jet. *Biointerphases*, **2015**, 10, 029518	1.8	184
183	Clinical Plasma Medicine: State and Perspectives of in Vivo Application of Cold Atmospheric Plasma. *Contributions To Plasma Physics*, **2014**, 54, 104-117	1.4	177
182	Antibacterial Activity of an Atmospheric Pressure Plasma Jet Against Relevant Wound Pathogens in vitro on a Simulated Wound Environment. *Plasma Processes and Polymers*, **2010**, 7, 224-230	3.4	175
181	Clinical experience with cold plasma in the treatment of locally advanced head and neck cancer. *Clinical Plasma Medicine*, **2018**, 9, 6-13	2.8	162
180	Antimicrobial Treatment of Heat Sensitive Materials by Means of Atmospheric Pressure Rf-Driven Plasma Jet. *Contributions To Plasma Physics*, **2007**, 47, 72-79	1.4	154
179	Skin decontamination by low-temperature atmospheric pressure plasma jet and dielectric barrier discharge plasma. *Journal of Hospital Infection*, **2012**, 81, 177-83	6.9	148
178	Research on plasma medicine-relevant plasma□quid interaction: What happened in the past five years?. *Clinical Plasma Medicine*, **2015**, 3, 42-52	2.8	143
177	A cold plasma jet accelerates wound healing in a murine model of full-thickness skin wounds. *Experimental Dermatology*, **2017**, 26, 156-162	4	141

176	Biological and medical applications of plasma-activated media, water and solutions. *Biological Chemistry*, **2018**, 400, 39-62	4.5	136
175	Head and neck cancer treatment and physical plasma. *Clinical Plasma Medicine*, **2015**, 3, 17-23	2.8	136
174	Atmospheric pressure plasma: a high-performance tool for the efficient removal of biofilms. *PLoS ONE*, **2012**, 7, e42539	3.7	118
173	High Rate Etching of Polymers by Means of an Atmospheric Pressure Plasma Jet. *Plasma Processes and Polymers*, **2011**, 8, 51-58	3.4	113
172	Plasma Medicine: A Field of Applied Redox Biology. *In Vivo*, **2019**, 33, 1011-1026	2.3	107
171	Risk assessment of a cold argon plasma jet in respect to its mutagenicity. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2016**, 798-799, 48-54	3	105
170	Non-thermal plasma activates human keratinocytes by stimulation of antioxidant and phase II pathways. *Journal of Biological Chemistry*, **2015**, 290, 6731-50	5.4	100
169	Influence of the Air Humidity on the Reduction of Bacillus Spores in a Defined Environment at Atmospheric Pressure Using a Dielectric Barrier Surface Discharge. *Plasma Processes and Polymers*, **2010**, 7, 244-249	3.4	97
168	Scar formation of laser skin lesions after cold atmospheric pressure plasma (CAP) treatment: A clinical long term observation. *Clinical Plasma Medicine*, **2013**, 1, 30-35	2.8	96
167	Plasma Processes and Plasma Sources in Medicine. *Contributions To Plasma Physics*, **2012**, 52, 644-654	1.4	94
166	In Vitro Susceptibility of Multidrug Resistant Skin and Wound Pathogens Against Low Temperature Atmospheric Pressure Plasma Jet (APPJ) and Dielectric Barrier Discharge Plasma (DBD). *Plasma Processes and Polymers*, **2014**, 11, 175-183	3.4	87
165	Oxygen atoms are critical in rendering THP-1 leukaemia cells susceptible to cold physical plasma-induced apoptosis. *Scientific Reports*, **2017**, 7, 2791	4.9	86
164	White paper on plasma for medicine and hygiene: Future in plasma health sciences. *Plasma Processes and Polymers*, **2019**, 16, 1800033	3.4	85
163	Non-thermal plasma-treated solution demonstrates antitumor activity against pancreatic cancer cells in vitro and in vivo. *Scientific Reports*, **2017**, 7, 8319	4.9	84
162	The hairline plasma: An intermittent negative dc-corona discharge at atmospheric pressure for plasma medical applications. *Applied Physics Letters*, **2010**, 96, 143701	3.4	80
161	. *IEEE Transactions on Plasma Science*, **2011**, 39, 815-821	1.3	74
160	Experimental Recovery of CO2-Laser Skin Lesions by Plasma Stimulation. *The American Journal of Cosmetic Surgery*, **2012**, 29, 52-56	0.3	73
159	Biosensors for in vivo glucose measurement: can we cross the experimental stage. *Biosensors and Bioelectronics*, **2002**, 17, 1059-70	11.8	73

158	Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. *Cancers*, **2020**, 12,	6.6	71
157	Visible tumor surface response to physical plasma and apoptotic cell kill in head and neck cancer. *Journal of Cranio-Maxillo-Facial Surgery*, **2016**, 44, 1445-52	3.6	71
156	Induction of proliferation of basal epidermal keratinocytes by cold atmospheric-pressure plasma. *Clinical and Experimental Dermatology*, **2016**, 41, 202-9	1.8	71
155	Basic requirements for plasma sources in medicine. *EPJ Applied Physics*, **2011**, 55, 13807	1.1	70
154	Cold atmospheric plasma in combination with mechanical treatment improves osteoblast growth on biofilm covered titanium discs. *Biomaterials*, **2015**, 52, 327-34	15.6	69
153	One Year Follow-Up Risk Assessment in SKH-1 Mice and Wounds Treated with an Argon Plasma Jet. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	69
152	In Vitro Susceptibility of Important Skin and Wound Pathogens Against Low Temperature Atmospheric Pressure Plasma Jet (APPJ) and Dielectric Barrier Discharge Plasma (DBD). *Plasma Processes and Polymers*, **2012**, 9, 380-389	3.4	68
151	Impact of plasma jet vacuum ultraviolet radiation on reactive oxygen species generation in bio-relevant liquids. *Physics of Plasmas*, **2015**, 22, 122008	2.1	65
150	Introduction to DIN-specification 91315 based on the characterization of the plasma jet kINPen MED. *Clinical Plasma Medicine*, **2016**, 4, 35-45	2.8	64
149	Atmospheric pressure plasma jet treatment evokes transient oxidative stress in HaCaT keratinocytes and influences cell physiology. *Cell Biology International*, **2014**, 38, 412-25	4.5	63
148	Antimicrobial Effects of UV and VUV Radiation of Nonthermal Plasma Jets. *IEEE Transactions on Plasma Science*, **2009**, 37, 877-883	1.3	63
147	Plasma jetS shielding gas impact on bacterial inactivation. *Biointerphases*, **2015**, 10, 029506	1.8	57
146	Surface molecules on HaCaT keratinocytes after interaction with non-thermal atmospheric pressure plasma. *Cell Biology International*, **2012**, 36, 1217-22	4.5	57
145	Influence of non-thermal atmospheric pressure plasma on cellular structures and processes in human keratinocytes (HaCaT). *Journal of Dermatological Science*, **2013**, 70, 173-81	4.3	57
144	Plasma Applications: A Dermatological View. *Contributions To Plasma Physics*, **2014**, 54, 118-130	1.4	56
143	Nrf2 signaling and inflammation are key events in physical plasma-spurred wound healing. *Theranostics*, **2019**, 9, 1066-1084	12.1	52
142	. *IEEE Transactions on Plasma Science*, **2010**, 38, 2479-2485	1.3	52
141	Chemistry and biochemistry of cold physical plasma derived reactive species in liquids. *Biological Chemistry*, **2018**, 400, 19-38	4.5	52

140	Cell migration and adhesion of a human melanoma cell line is decreased by cold plasma treatment. *Clinical Plasma Medicine*, **2015**, 3, 24-31	2.8	49
139	Redox Stimulation of Human THP-1 Monocytes in Response to Cold Physical Plasma. *Oxidative Medicine and Cellular Longevity*, **2016**, 2016, 5910695	6.7	49
138	Plasma Sterilization: What are the Conditions to Meet this Claim?. *Plasma Processes and Polymers*, **2008**, 5, 534-539	3.4	47
137	Time-dependent effects of low-temperature atmospheric-pressure argon plasma on epithelial cell attachment, viability and tight junction formationin vitro. *Journal Physics D: Applied Physics*, **2012**, 45, 025206	3	46
136	Non-thermal atmospheric-pressure plasma can influence cell adhesion molecules on HaCaT-keratinocytes. *Experimental Dermatology*, **2011**, 20, 282-4	4	45
135	Comparison between cold plasma, electrochemotherapy and combined therapy in a melanoma mouse model. *Experimental Dermatology*, **2013**, 22, 582-6	4	44
134	Atmospheric plasma surface modifications of electrospun PCL/chitosan/PCL hybrid scaffolds by nozzle type plasma jets for usage of cell cultivation. *Applied Surface Science*, **2016**, 385, 400-409	6.7	43
133	Redox-Based Assay for Assessment of Biological Impact of Plasma Treatment. *Plasma Processes and Polymers*, **2014**, 11, 655-663	3.4	43
132	Periodic Exposure of Keratinocytes to Cold Physical Plasma: An In Vitro Model for Redox-Related Diseases of the Skin. *Oxidative Medicine and Cellular Longevity*, **2016**, 2016, 9816072	6.7	43
131	Cold Physical Plasma Treatment Alters Redox Balance in Human Immune Cells. *Plasma Medicine*, **2013**, 3, 267-278	1.1	42
130	Redox-regulation of activator protein 1 family members in blood cancer cell lines exposed to cold physical plasma-treated medium. *Plasma Processes and Polymers*, **2016**, 13, 1179-1188	3.4	41
129	Synergistic antibacterial effects of treatments with low temperature plasma jet and pulsed electric fields. *Applied Physics Letters*, **2014**, 105, 104103	3.4	41
128	Differential sensitivity of lymphocyte subpopulations to non-thermal atmospheric-pressure plasma. *Immunobiology*, **2012**, 217, 628-33	3.4	41
127	Perspectives on cold atmospheric plasma (CAP) applications in medicine. *Physics of Plasmas*, **2020**, 27, 070601	2.1	41
126	High throughput image cytometry micronucleus assay to investigate the presence or absence of mutagenic effects of cold physical plasma. *Environmental and Molecular Mutagenesis*, **2018**, 59, 268-277	3.2	40
125	Cold plasma is well-tolerated and does not disturb skin barrier or reduce skin moisture. *JDDG - Journal of the German Society of Dermatology*, **2012**, 10, 509-15	1.2	39
124	Differential influence of components resulting from atmospheric-pressure plasma on integrin expression of human HaCaT keratinocytes. *BioMed Research International*, **2013**, 2013, 761451	3	37
123	Comparing two different plasma devices kINPen and Adtec SteriPlas regarding their molecular and cellular effects on wound healing. *Clinical Plasma Medicine*, **2018**, 9, 24-33	2.8	35

122	Elevated H2AX Phosphorylation Observed with kINPen Plasma Treatment Is Not Caused by ROS-Mediated DNA Damage but Is the Consequence of Apoptosis. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 8535163	6.7	34
121	Sterilization of enzyme glucose sensors: problems and concepts. *Biosensors and Bioelectronics*, **2002**, 17, 373-82	11.8	34
120	Cold Physical Plasma Modulates p53 and Mitogen-Activated Protein Kinase Signaling in Keratinocytes. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 7017363	6.7	34
119	On the Use of Atmospheric Pressure Plasma for the Bio-Decontamination of Polymers and Its Impact on Their Chemical and Morphological Surface Properties. *Plasma Chemistry and Plasma Processing*, **2012**, 32, 801-816	3.6	33
118	Persistent effectivity of gas plasma-treated, long time-stored liquid on epithelial cell adhesion capacity and membrane morphology. *PLoS ONE*, **2014**, 9, e104559	3.7	32
117	Non-touching plasma-liquid interaction - where is aqueous nitric oxide generated?. *Physical Chemistry Chemical Physics*, **2018**, 20, 25387-25398	3.6	32
116	Proteomic Changes of Tissue-Tolerable Plasma Treated Airway Epithelial Cells and Their Relation to Wound Healing. *BioMed Research International*, **2015**, 2015, 506059	3	31
115	Volume Effects of Atmospheric-Pressure Plasma in Liquids. *IEEE Transactions on Plasma Science*, **2011**, 39, 2646-2647	1.3	30
114	Clinical usefulness of the glucose concentration in the subcutaneous tissue--properties and pitfalls of electrochemical biosensors. *Hormone and Metabolic Research*, **1994**, 26, 515-22	3.1	30
113	xCT (SLC7A11) expression confers intrinsic resistance to physical plasma treatment in tumor cells. *Redox Biology*, **2020**, 30, 101423	11.3	30
112	Side effects in cold plasma treatment of advanced oral cancer□Clinical data and biological interpretation. *Clinical Plasma Medicine*, **2018**, 10, 9-15	2.8	29
111	Cold physical plasma selects for specific T helper cell subsets with distinct cells surface markers in a caspase-dependent and NF-B-independent manner. *Plasma Processes and Polymers*, **2016**, 13, 1144-1150	3.4	29
110	Investigation of Surface Etching of Poly(Ether Ether Ketone) by Atmospheric-Pressure Plasmas. *IEEE Transactions on Plasma Science*, **2012**, 40, 2900-2911	1.3	29
109	Fluorescence measurements of peroxynitrite/peroxynitrous acid in cold air plasma treated aqueous solutions. *Physical Chemistry Chemical Physics*, **2019**, 21, 8883-8896	3.6	27
108	. *IEEE Transactions on Plasma Science*, **2010**, 38, 2969-2973	1.3	27
107	. *IEEE Transactions on Plasma Science*, **2012**, 40, 2963-2969	1.3	26
106	Cold atmospheric plasma: a new tool for the treatment of superficial driveline infections. *European Journal of Cardio-thoracic Surgery*, **2017**, 51, 186-187	3	25
105	Risk Assessment of kINPen Plasma Treatment of Four Human Pancreatic Cancer Cell Lines with Respect to Metastasis. *Cancers*, **2019**, 11,	6.6	25

104	Platelets are key in cold physical plasma-facilitated blood coagulation in mice. *Clinical Plasma Medicine*, **2017**, 7-8, 58-65	2.8	24
103	Atmospheric Pressure Plasma Jet Application on Human Oral Mucosa Modulates Tissue Regeneration. *Plasma Medicine*, **2014**, 4, 117-129	1.1	24
102	Campus PlasmaMed From Basic Research to Clinical Proof. *IEEE Transactions on Plasma Science*, **2011**, 39, 1015-1025	1.3	24
101	Nitrosylation vs. oxidation - How to modulate cold physical plasmas for biological applications. *PLoS ONE*, **2019**, 14, e0216606	3.7	22
100	Side effects by oral application of atmospheric pressure plasma on the mucosa in mice. *PLoS ONE*, **2019**, 14, e0215099	3.7	22
99	Stability of immobilized enzymes as biosensors for continuous application in vitro and in vivo. *Journal of Molecular Catalysis B: Enzymatic*, **1999**, 7, 93-100		22
98	Analysis of antibacterial efficacy of plasma-treated sodium chloride solutions. *Journal Physics D: Applied Physics*, **2015**, 48, 454001	3	21
97	Cold Physical Plasma-Treated Buffered Saline Solution as Effective Agent Against Pancreatic Cancer Cells. *Anti-Cancer Agents in Medicinal Chemistry*, **2018**, 18, 824-831	2.2	21
96	Plasma-Activation of Larger Liquid Volumes by an Inductively-Limited Discharge for Antimicrobial Purposes. *Applied Sciences (Switzerland)*, **2019**, 9, 2150	2.6	20
95	In vitro treatment of Candida albicans biofilms on denture base material with volume dielectric barrier discharge plasma (VDBD) compared with common chemical antiseptics. *Clinical Oral Investigations*, **2015**, 19, 2319-26	4.2	20
94	Plasma Medicine in Dermatology: Basic Antimicrobial Efficacy Testing as Prerequisite to Clinical Plasma Therapy. *Plasma Medicine*, **2012**, 2, 33-69	1.1	20
93	Combination Treatment with Cold Physical Plasma and Pulsed Electric Fields Augments ROS Production and Cytotoxicity in Lymphoma. *Cancers*, **2020**, 12,	6.6	20
92	The HIPPO Transducer YAP and Its Targets CTGF and Cyr61 Drive a Paracrine Signalling in Cold Atmospheric Plasma-Mediated Wound Healing. *Oxidative Medicine and Cellular Longevity*, **2020**, 2020, 4910280	6.7	19
91	Long-term Risk Assessment for Medical Application of Cold Atmospheric Pressure Plasma. *Diagnostics*, **2020**, 10,	3.8	19
90	The feed gas composition determines the degree of physical plasma-induced platelet activation for blood coagulation. *Plasma Sources Science and Technology*, **2018**, 27, 034001	3.5	19
89	Synergistic Inhibition of Tumor Cell Proliferation by Cold Plasma and Gemcitabine. *Plasma Processes and Polymers*, **2015**, 12, 1377-1382	3.4	19
88	Osteoblast growth, after cleaning of biofilm-covered titanium discs with air-polishing and cold plasma. *Journal of Clinical Periodontology*, **2017**, 44, 672-680	7.7	18
87	Cold Argon Plasma as Adjuvant Tumour Therapy on Progressive Head and Neck Cancer: A Preclinical Study. *Applied Sciences (Switzerland)*, **2019**, 9, 2061	2.6	18

86	Gas Plasma Technology-An Asset to Healthcare During Viral Pandemics Such as the COVID-19 Crisis?. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 391-399	4.2	18
85	Plasma-Liquid Interactions: Chemistry and Antimicrobial Effects. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2012**, 67-78	0.1	18
84	Immune response against polyester implants is influenced by the coating substances. *Journal of Biomedical Materials Research - Part A*, **2007**, 83, 104-13	5.4	18
83	Cold physical plasma-induced oxidation of cysteine yields reactive sulfur species (RSS). *Clinical Plasma Medicine*, **2019**, 14, 100083	2.8	17
82	Combination of Gas Plasma and Radiotherapy Has Immunostimulatory Potential and Additive Toxicity in Murine Melanoma Cells in Vitro. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	17
81	Distinct cytokine and chemokine patterns in chronic diabetic ulcers and acute wounds. *Experimental Dermatology*, **2017**, 26, 145-147	4	17
80	Subpicosecond-pulse laser microstructuring for enhanced reproducibility of biosensors. *Sensors and Actuators B: Chemical*, **1997**, 42, 151-156	8.5	17
79	Comparison of different biological methods for the assessment of ecotoxicological risks. *International Journal of Hygiene and Environmental Health*, **2006**, 209, 275-84	6.9	17
78	Use of Proteomics to Investigate Plasma-Cell Interactions. *Plasma Medicine*, **2011**, 1, 55-63	1.1	16
77	Gas plasma-spurred wound healing is accompanied by regulation of focal adhesion, matrix remodeling, and tissue oxygenation. *Redox Biology*, **2021**, 38, 101809	11.3	15
76	Medical gas plasma-stimulated wound healing: Evidence and mechanisms. *Redox Biology*, **2021**, 46, 102116	11.3	15
75	Design optimization of an air atmospheric pressure plasma-jet device intended for medical use. *Plasma Processes and Polymers*, **2018**, 15, 1700211	3.4	14
74	Cell stimulation versus cell death induced by sequential treatments with pulsed electric fields and cold atmospheric pressure plasma. *PLoS ONE*, **2018**, 13, e0204916	3.7	14
73	On a heavy path - determining cold plasma-derived short-lived species chemistry using isotopic labelling.. *RSC Advances*, **2020**, 10, 11598-11607	3.7	13
72	Plasma-treated medium tunes the inflammatory profile in murine bone marrow-derived macrophages. *Clinical Plasma Medicine*, **2018**, 11, 1-9	2.8	13
71	Clinical plasma medicine: Position and perspectives in 2012. *Clinical Plasma Medicine*, **2013**, 1, 3-4	2.8	13
70	Tumor cell metabolism correlates with resistance to gas plasma treatment: The evaluation of three dogmas. *Free Radical Biology and Medicine*, **2021**, 167, 12-28	7.8	13
69	Oxidative modification of skin lipids by cold atmospheric plasma (CAP): A standardizable approach using RP-LC/MS and DI-ESI/MS. *Chemistry and Physics of Lipids*, **2020**, 226, 104786	3.7	13

68	Antimicrobial efficacy and potential application of a newly developed plasma-based ultraviolet irradiation facility. *Journal of Hospital Infection*, **2003**, 55, 204-11	6.9	12
67	Can the effect of cold physical plasma-derived oxidants be transported via thiol group oxidation?. *Clinical Plasma Medicine*, **2019**, 14, 100086	2.8	11
66	Ex Vivo Exposure of Human Melanoma Tissue to Cold Physical Plasma Elicits Apoptosis and Modulates Inflammation. *Applied Sciences (Switzerland)*, **2020**, 10, 1971	2.6	11
65	Removal of naturally grown human biofilm with an atmospheric pressure plasma jet: An in-vitro study. *Journal of Biophotonics*, **2017**, 10, 718-726	3.1	11
64	Identification of the Molecular Basis of Non-thermal Plasma-Induced Changes in Human Keratinocytes. *Plasma Medicine*, **2013**, 3, 15-25	1.1	11
63	Comparison of Nonthermal Plasma Processes on the Surface Properties of Polystyrene and Their Impact on Cell Growth. *IEEE Transactions on Plasma Science*, **2012**, 40, 2970-2979	1.3	11
62	The molecular and physiological consequences of cold plasma treatment in murine skin and its barrier function. *Free Radical Biology and Medicine*, **2020**, 161, 32-49	7.8	11
61	Plasma Treatment Limits Cutaneous Squamous Cell Carcinoma Development In Vitro and In Vivo. *Cancers*, **2020**, 12,	6.6	11
60	Plasma-mediated inactivation of E. coli: Influence of protein on wet surface and in liquid medium. *Plasma Processes and Polymers*, **2019**, 16, 1800164	3.4	11
59	Comparison of Biological Effects on Human Keratinocytes Using Different Plasma Treatment Regimes. *Plasma Medicine*, **2013**, 3, 57-69	1.1	10
58	Plasma Treatment Limits Human Melanoma Spheroid Growth and Metastasis Independent of the Ambient Gas Composition. *Cancers*, **2020**, 12,	6.6	10
57	Effects of Non-Thermal Atmospheric Pressure Plasma and Sodium Hypochlorite Solution on Enterococcus faecalis Biofilm: An Investigation in Extracted Teeth. *Plasma Processes and Polymers*, **2017**, 14, 1600064	3.4	9
56	Environmental Control of an Argon Plasma Effluent and Its Role in THP-1 Monocyte Function. *IEEE Transactions on Plasma Science*, **2017**, 45, 3336-3341	1.3	9
55	Glucose oxidase electrodes: effect of hydrogen peroxide on enzyme activity?. *Biosensors and Bioelectronics*, **1994**, 9, 65-71	11.8	9
54	Nonenzymatic post-translational modifications in peptides by cold plasma-derived reactive oxygen and nitrogen species. *Biointerphases*, **2020**, 15, 061008	1.8	9
53	Combination of cold plasma and pulsed electric fields □A rationale for cancer patients in palliative care. *Clinical Plasma Medicine*, **2019**, 16, 100096	2.8	9
52	Hyperspectral Imaging of Wounds Reveals Augmented Tissue Oxygenation Following Cold Physical Plasma Treatment in Vivo. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 412-419	4.2	9
51	Tumor cytotoxicity and immunogenicity of a novel V-jet neon plasma source compared to the kINPen. *Scientific Reports*, **2021**, 11, 136	4.9	9

50	Investigation of air-DBD effects on biological liquids for in vitro studies on eukaryotic cells. *Clinical Plasma Medicine*, **2015**, 3, 62-71	2.8	8
49	A Reference Technique to Compare the Antimicrobial Properties of Atmospheric Pressure Plasma Sources. *Plasma Medicine*, **2015**, 5, 27-47	1.1	8
48	On the Liquid Chemistry of the Reactive Nitrogen Species Peroxynitrite and Nitrogen Dioxide Generated by Physical Plasmas. *Biomolecules*, **2020**, 10,	5.9	8
47	Development of an electrochemical sensor for in-situ monitoring of reactive species produced by cold physical plasma. *Sensors and Actuators B: Chemical*, **2021**, 326, 129007	8.5	8
46	Plasma generated RONS in cell culture medium for in vitro studies of eukaryotic cells on Tissue Engineering scaffolds. *Plasma Processes and Polymers*, **2017**, 14, 1700014	3.4	7
45	The influence of antimicrobial treatments on the cytocompatibility of polyurethane biosensor membranes. *Biosensors and Bioelectronics*, **2003**, 19, 269-76	11.8	7
44	Plasma Medicine - its perspective for wound therapy. *GMS Krankenhaushygiene Interdisziplinär*, **2008**, 3, Doc16		7
43	Reactive species driven oxidative modifications of peptides□tracing physical plasma liquid chemistry. *Journal of Applied Physics*, **2021**, 129, 193305	2.5	7
42	Improved Wound Healing of Airway Epithelial Cells Is Mediated by Cold Atmospheric Plasma: A Time Course-Related Proteome Analysis. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 7071536	6.7	6
41	Biosensor-controlled perfusion culture to estimate the viability of cells. *Medical and Biological Engineering and Computing*, **2002**, 40, 704-11	3.1	6
40	Argon Plasma Exposure Augments Costimulatory Ligands and Cytokine Release in Human Monocyte-Derived Dendritic Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
39	Characterization of Reactive Oxygen/Nitrogen Species Produced in PBS and DMEM by Air DBD Plasma Treatments. *Plasma Medicine*, **2016**, 6, 13-19	1.1	6
38	Multimodal Nonlinear Microscopy for Therapy Monitoring of Cold Atmospheric Plasma Treatment. *Micromachines*, **2019**, 10,	3.3	5
37	Introduction to Plasma Medicine **2018**, 3-21		5
36	First insights on plasma orthodontics - Application of cold atmospheric pressure plasma to enhance the bond strength of orthodontic brackets. *Clinical Plasma Medicine*, **2016**, 4, 46-49	2.8	5
35	Effects of cold atmospheric pressure plasma and disinfecting agents on Candida albicans in root canals of extracted human teeth. *Journal of Biophotonics*, **2020**, 13, e202000221	3.1	5
34	The amino acid metabolism is essential for evading physical plasma-induced tumour cell death. *British Journal of Cancer*, **2021**, 124, 1854-1863	8.7	5
33	Fibroblast Growth on Zirconia Ceramic and Titanium Disks After Application with Cold Atmospheric Pressure Plasma Devices or with Antiseptics. *International Journal of Oral and Maxillofacial Implants* , **2019**, 34, 809-818	2.8	4

32	Plasma-based Stimulation of Biotechnological Processes in Ganoderma lucidum Mycelia as Example for a Eukaryotic Organism. *Plasma Medicine*, **2014**, 4, 17-28	1.1	4
31	A Systematic Characterization of a Novel Surface Dielectric Barrier Discharge for Biomedical Experiments. *Plasma Medicine*, **2013**, 3, 27-44	1.1	4
30	Reprocessing of thermosensitive materials--efficacy against bacterial spores and viruses. *Journal of Hospital Infection*, **2001**, 48 Suppl A, S69-79	6.9	4
29	Conductivity augments ROS and RNS delivery and tumor toxicity of an argon plasma jet.. *Free Radical Biology and Medicine*, **2022**,	7.8	4
28	Atmospheric Pressure Plasmas for Decontamination of Complex Medical Devices. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2012**, 3-15	0.1	4
27	Non-steroidal anti-inflammatory drugs: recent advances in the use of synthetic COX-2 inhibitors. *RSC Medicinal Chemistry*,	3.5	4
26	Biosensors for glycaemic control. *Sensor Review*, **2001**, 21, 297-304	1.4	3
25	Risk Evaluation of EMT and Inflammation in Metastatic Pancreatic Cancer Cells Following Plasma Treatment. *Frontiers in Physics*, **2020**, 8,	3.9	3
24	The Plasma-Induced Leukemia Cell Death is Dictated by the ROS Chemistry and the HO-1/CXCL8 Axis. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 398-411	4.2	3
23	Large volume spark discharge and plasma jet-technology for generating plasma-oxidized saline targeting colon cancer in vitro and in vivo. *Journal of Applied Physics*, **2021**, 129, 053301	2.5	3
22	Singlet-Oxygen-Induced Phospholipase A Inhibition: A Major Role for Interfacial Tryptophan Dioxidation. *Chemistry - A European Journal*, **2021**, 27, 14702-14710	4.8	3
21	Grundlagen der Plasmamedizin. *Der MKG-Chirurg*, **2016**, 9, 246-254	0.2	2
20	DIN SPEC 91315: A First Attempt to Implement Mandatory Test Protocols for the Characterization of Plasma Medical Devices **2018**, 511-516		2
19	Efficiency of cold atmospheric plasma, cleaning powders and their combination for biofilm removal on two different titanium implant surfaces.. *Clinical Oral Investigations*, **2022**, 26, 3179	4.2	2
18	Effects of Physical Plasma on Biotechnological Processes in Mycelia of the Cultivated Lingzhi or Reishi Medicinal Mushroom Ganoderma lucidum (Agaricomycetes). *International Journal of Medicinal Mushrooms*, **2016**, 18, 521-531	1.3	2
17	Concept for Improved Handling Ensures Effective Contactless Plasma Treatment of Patients with kINPen MED. *Applied Sciences (Switzerland)*, **2020**, 10, 6133	2.6	2
16	Stimulation of melanin synthesis in melanoma cells by cold plasma. *Biological Chemistry*, **2018**, 400, 101-109	4.9	2
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