

# Sander Bekeschus

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6594086/sander-bekeschus-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

183  
papers

4,480  
citations

39  
h-index

59  
g-index

215  
ext. papers

5,829  
ext. citations

4.6  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
183	The plasma jet kINPen IA powerful tool for wound healing. <i>Clinical Plasma Medicine</i> , <b>2016</b> , 4, 19-28	2.8	239
182	Hydrogen peroxide: A central player in physical plasma-induced oxidative stress in human blood cells. <i>Free Radical Research</i> , <b>2014</b> , 48, 542-9	4	174
181	Clinical experience with cold plasma in the treatment of locally advanced head and neck cancer. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 9, 6-13	2.8	162
180	A cold plasma jet accelerates wound healing in a murine model of full-thickness skin wounds. <i>Experimental Dermatology</i> , <b>2017</b> , 26, 156-162	4	141
179	Plasma Medicine: Applications of Cold Atmospheric Pressure Plasma in Dermatology. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 3873928	6.7	115
178	ROS from Physical Plasmas: Redox Chemistry for Biomedical Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 9062098	6.7	108
177	Plasma Medicine: A Field of Applied Redox Biology. <i>In Vivo</i> , <b>2019</b> , 33, 1011-1026	2.3	107
176	Risk assessment of a cold argon plasma jet in respect to its mutagenicity. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2016</b> , 798-799, 48-54	3	105
175	Oxygen atoms are critical in rendering THP-1 leukaemia cells susceptible to cold physical plasma-induced apoptosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 2791	4.9	86
174	White paper on plasma for medicine and hygiene: Future in plasma health sciences. <i>Plasma Processes and Polymers</i> , <b>2019</b> , 16, 1800033	3.4	85
173	Non-thermal plasma-treated solution demonstrates antitumor activity against pancreatic cancer cells in vitro and in vivo. <i>Scientific Reports</i> , <b>2017</b> , 7, 8319	4.9	84
172	Impact of non-thermal plasma treatment on MAPK signaling pathways of human immune cell lines. <i>Immunobiology</i> , <b>2013</b> , 218, 1248-55	3.4	79
171	Physical plasma-treated saline promotes an immunogenic phenotype in CT26 colon cancer cells in vitro and in vivo. <i>Scientific Reports</i> , <b>2019</b> , 9, 634	4.9	76
170	Investigating the Mutagenicity of a Cold Argon-Plasma Jet in an HET-MN Model. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160667	3.7	75
169	Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. <i>Cancers</i> , <b>2020</b> , 12,	6.6	71
168	One Year Follow-Up Risk Assessment in SKH-1 Mice and Wounds Treated with an Argon Plasma Jet. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	69
167	Non-thermal plasma treatment is associated with changes in transcriptome of human epithelial skin cells. <i>Free Radical Research</i> , <b>2013</b> , 47, 577-92	4	69

166	Human Mononuclear Cell Survival and Proliferation is Modulated by Cold Atmospheric Plasma Jet. <i>Plasma Processes and Polymers</i> , <b>2013</b> , 10, 706-713	3.4	62
165	Combination of chemotherapy and physical plasma elicits melanoma cell death via upregulation of SLC22A16. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 1179	9.8	56
164	Nitrogen Shielding of an Argon Plasma Jet and Its Effects on Human Immune Cells. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 776-781	1.3	55
163	Nrf2 signaling and inflammation are key events in physical plasma-spurred wound healing. <i>Theranostics</i> , <b>2019</b> , 9, 1066-1084	12.1	52
162	Chemistry and biochemistry of cold physical plasma derived reactive species in liquids. <i>Biological Chemistry</i> , <b>2018</b> , 400, 19-38	4.5	52
161	Cell migration and adhesion of a human melanoma cell line is decreased by cold plasma treatment. <i>Clinical Plasma Medicine</i> , <b>2015</b> , 3, 24-31	2.8	49
160	Redox Stimulation of Human THP-1 Monocytes in Response to Cold Physical Plasma. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 5910695	6.7	49
159	Chemical fingerprints of cold physical plasmas - an experimental and computational study using cysteine as tracer compound. <i>Scientific Reports</i> , <b>2018</b> , 8, 7736	4.9	49
158	Medical Gas Plasma Jet Technology Targets Murine Melanoma in an Immunogenic Fashion. <i>Advanced Science</i> , <b>2020</b> , 7, 1903438	13.6	48
157	Viability of Human Blood Leukocytes Compared with Their Respective Cell Lines after Plasma Treatment. <i>Plasma Medicine</i> , <b>2013</b> , 3, 71-80	1.1	48
156	Toxicity and Immunogenicity in Murine Melanoma following Exposure to Physical Plasma-Derived Oxidants. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 4396467	6.7	46
155	Non-Thermal Plasma-Induced Immunogenic Cell Death in Cancer: A Topical Review. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52,	3	45
154	Neutrophil extracellular trap formation is elicited in response to cold physical plasma. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 100, 791-799	6.5	45
153	Maintaining health by balancing microbial exposure and prevention of infection: the hygiene hypothesis versus the hypothesis of early immune challenge. <i>Journal of Hospital Infection</i> , <b>2013</b> , 83 Suppl 1, S29-34	6.9	43
152	Periodic Exposure of Keratinocytes to Cold Physical Plasma: An In Vitro Model for Redox-Related Diseases of the Skin. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 9816072	6.7	43
151	Nonthermal Plasma Increases Expression of Wound Healing Related Genes in a Keratinocyte Cell Line. <i>Plasma Medicine</i> , <b>2013</b> , 3, 125-136	1.1	42
150	Cold Physical Plasma Treatment Alters Redox Balance in Human Immune Cells. <i>Plasma Medicine</i> , <b>2013</b> , 3, 267-278	1.1	42
149	Redox-regulation of activator protein 1 family members in blood cancer cell lines exposed to cold physical plasma-treated medium. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 1179-1188	3.4	41

148	Differential Viability of Eight Human Blood Mononuclear Cell Subpopulations After Plasma Treatment. <i>Plasma Medicine</i> , <b>2013</b> , 3, 1-13	1.1	41
147	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> , <b>2018</b> , 59, 268-277	3.2	40
146	Physical Plasma Elicits Immunogenic Cancer Cell Death and Mitochondrial Singlet Oxygen. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2018</b> , 2, 138-146	4.2	39
145	Treating cancer with cold physical plasma: On the way to evidence-based medicine. <i>Contributions To Plasma Physics</i> , <b>2018</b> , 58, 415-419	1.4	39
144	Cold Physical Plasmas in the Field of Hygiene: Relevance, Significance, and Future Applications. <i>Plasma Processes and Polymers</i> , <b>2015</b> , 12, 1410-1422	3.4	39
143	Basic Research in Plasma Medicine - A Throughput Approach from Liquids to Cells. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	36
142	Redox Regulation of Inflammatory Processes Is Enzymatically Controlled. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 8459402	6.7	35
141	Elevated H2AX Phosphorylation Observed with kINPen Plasma Treatment Is Not Caused by ROS-Mediated DNA Damage but Is the Consequence of Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 8535163	6.7	34
140	Cold Physical Plasma Modulates p53 and Mitogen-Activated Protein Kinase Signaling in Keratinocytes. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 7017363	6.7	34
139	Redox for Repair: Cold Physical Plasmas and Nrf2 Signaling Promoting Wound Healing. <i>Antioxidants</i> , <b>2018</b> , 7,	7.1	33
138	A Comparison of Floating-Electrode DBD and kINPen Jet: Plasma Parameters to Achieve Similar Growth Reduction in Colon Cancer Cells Under Standardized Conditions. <i>Plasma Chemistry and Plasma Processing</i> , <b>2018</b> , 38, 1-12	3.6	32
137	Cold Atmospheric Plasma (CAP) and CAP-Stimulated Cell Culture Media Suppress Ovarian Cancer Cell Growth - A Putative Treatment Option in Ovarian Cancer Therapy. <i>Anticancer Research</i> , <b>2017</b> , 37, 6739-6744	2.3	32
136	Targeting malignant melanoma with physical plasmas. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 10, 1-8	2.8	31
135	xCT (SLC7A11) expression confers intrinsic resistance to physical plasma treatment in tumor cells. <i>Redox Biology</i> , <b>2020</b> , 30, 101423	11.3	30
134	Cold Physical Plasma Selectively Elicits Apoptosis in Murine Pancreatic Cancer Cells and. <i>Anticancer Research</i> , <b>2018</b> , 38, 5655-5663	2.3	30
133	Cold physical plasma selects for specific T helper cell subsets with distinct cells surface markers in a caspase-dependent and NF- $\kappa$ B-independent manner. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 1144-1150	3.4	29
132	Potentiating anti-tumor immunity with physical plasma. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 12, 17-22	2.8	29
131	Role of Ambient Gas Composition on Cold Physical Plasma-Elicited Cell Signaling in Keratinocytes. <i>Biophysical Journal</i> , <b>2017</b> , 112, 2397-2407	2.9	28

130	Cytochrome C oxidase Inhibition and Cold Plasma-derived Oxidants Synergize in Melanoma Cell Death Induction. <i>Scientific Reports</i> , <b>2018</b> , 8, 12734	4.9	28
129	Cold Atmospheric Plasma in the Treatment of Osteosarcoma. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	27
128	Physical plasma-triggered ROS induces tumor cell death upon cleavage of HSP90 chaperone. <i>Scientific Reports</i> , <b>2019</b> , 9, 4112	4.9	26
127	Cold Atmospheric Plasma Is a Potent Tool to Improve Chemotherapy in Melanoma In Vitro and In Vivo. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	26
126	Risk Assessment of kINPen Plasma Treatment of Four Human Pancreatic Cancer Cell Lines with Respect to Metastasis. <i>Cancers</i> , <b>2019</b> , 11,	6.6	25
125	A myeloid and lymphoid infiltrate in murine pancreatic tumors exposed to plasma-treated medium. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 11, 10-17	2.8	25
124	Physical plasma and leukocytes - immune or reactive?. <i>Biological Chemistry</i> , <b>2018</b> , 400, 63-75	4.5	25
123	Platelets are key in cold physical plasma-facilitated blood coagulation in mice. <i>Clinical Plasma Medicine</i> , <b>2017</b> , 7-8, 58-65	2.8	24
122	Activation of Murine Immune Cells upon Co-culture with Plasma-treated B16F10 Melanoma Cells. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 660	2.6	24
121	Efficacy of different carrier gases for barrier discharge plasma generation compared to chlorhexidine on the survival of <i>Pseudomonas aeruginosa</i> embedded in biofilm in vitro. <i>Skin Pharmacology and Physiology</i> , <b>2014</b> , 27, 148-57	3	22
120	Cold Physical Plasma-Treated Buffered Saline Solution as Effective Agent Against Pancreatic Cancer Cells. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2018</b> , 18, 824-831	2.2	21
119	In Vitro Anticancer Efficacy of Six Different Clinically Approved Types of Liquids Exposed to Physical Plasma. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 588-596	4.2	20
118	Nonthermal Plasma Jet Treatment Negatively Affects the Viability and Structure of <i>Candida albicans</i> SC5314 Biofilms. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	20
117	Plasma-Treated Solutions (PTS) in Cancer Therapy. <i>Cancers</i> , <b>2021</b> , 13,	6.6	20
116	Combination Treatment with Cold Physical Plasma and Pulsed Electric Fields Augments ROS Production and Cytotoxicity in Lymphoma. <i>Cancers</i> , <b>2020</b> , 12,	6.6	20
115	Upregulation Is a Mutual Marker in Human Tumor Cells Exposed to Physical Plasma-Derived Oxidants. <i>Antioxidants</i> , <b>2018</b> , 7,	7.1	20
114	The feed gas composition determines the degree of physical plasma-induced platelet activation for blood coagulation. <i>Plasma Sources Science and Technology</i> , <b>2018</b> , 27, 034001	3.5	19
113	Synergistic Inhibition of Tumor Cell Proliferation by Cold Plasma and Gemcitabine. <i>Plasma Processes and Polymers</i> , <b>2015</b> , 12, 1377-1382	3.4	19

112	Cold Argon Plasma as Adjuvant Tumour Therapy on Progressive Head and Neck Cancer: A Preclinical Study. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2061	2.6	18
111	RAW 264.7 Macrophage Polarization by Pancreatic Cancer Cells - A Model for Studying Tumour-promoting Macrophages. <i>Anticancer Research</i> , <b>2019</b> , 39, 2871-2882	2.3	18
110	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> , <b>2020</b> , 4, 391-399	4.2	18
109	Combination of Gas Plasma and Radiotherapy Has Immunostimulatory Potential and Additive Toxicity in Murine Melanoma Cells in Vitro. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	17
108	Redox regulation of leukocyte-derived microparticle release and protein content in response to cold physical plasma-derived oxidants. <i>Clinical Plasma Medicine</i> , <b>2017</b> , 7-8, 24-35	2.8	17
107	Distinct cytokine and chemokine patterns in chronic diabetic ulcers and acute wounds. <i>Experimental Dermatology</i> , <b>2017</b> , 26, 145-147	4	17
106	Gas Plasma-Conditioned Ringer's Lactate Enhances the Cytotoxic Activity of Cisplatin and Gemcitabine in Pancreatic Cancer In Vitro and In Ovo. <i>Cancers</i> , <b>2020</b> , 12,	6.6	17
105	Plasma-Derived Reactive Species Shape a Differentiation Profile in Human Monocytes. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2530	2.6	16
104	Gas Plasma Technology Augments Ovalbumin Immunogenicity and OT-II T Cell Activation Conferring Tumor Protection in Mice. <i>Advanced Science</i> , <b>2021</b> , 8, 2003395	13.6	16
103	Proteomic Tools to Characterize Non-Thermal Plasma Effects in Eukaryotic Cells. <i>Plasma Medicine</i> , <b>2013</b> , 3, 81-95	1.1	15
102	Gas plasma-spurred wound healing is accompanied by regulation of focal adhesion, matrix remodeling, and tissue oxygenation. <i>Redox Biology</i> , <b>2021</b> , 38, 101809	11.3	15
101	Plasma Treatment of Ovarian Cancer Cells Mitigates Their Immuno-Modulatory Products Active on THP-1 Monocytes. <i>Plasma</i> , <b>2018</b> , 1, 201-217	1.7	15
100	Medical gas plasma-stimulated wound healing: Evidence and mechanisms. <i>Redox Biology</i> , <b>2021</b> , 46, 102116.3	16.3	15
99	Antimicrobial effects of microwave-induced plasma torch (MiniMIP) treatment on <i>Candida albicans</i> biofilms. <i>Microbial Biotechnology</i> , <b>2019</b> , 12, 1034-1048	6.3	14
98	Gas plasma irradiation of breast cancers promotes immunogenicity, tumor reduction, and an abscopal effect in vivo. <i>Onc Immunology</i> , <b>2020</b> , 10, 1859731	7.2	14
97	Cold Atmospheric Pressure Plasma in Wound Healing and Cancer Treatment. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6898	2.6	14
96	On a heavy path - determining cold plasma-derived short-lived species chemistry using isotopic labelling.. <i>RSC Advances</i> , <b>2020</b> , 10, 11598-11607	3.7	13
95	Plasma-treated medium tunes the inflammatory profile in murine bone marrow-derived macrophages. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 11, 1-9	2.8	13

94	Physical Plasma-Treated Skin Cancer Cells Amplify Tumor Cytotoxicity of Human Natural Killer (NK) Cells. <i>Cancers</i> , <b>2020</b> , 12,	6.6	13
93	Tumor cell metabolism correlates with resistance to gas plasma treatment: The evaluation of three dogmas. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 167, 12-28	7.8	13
92	Low Temperature Plasma for Biology, Hygiene, and Medicine: Perspective and Roadmap. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2022</b> , 1-1	4.2	12
91	Can the effect of cold physical plasma-derived oxidants be transported via thiol group oxidation?. <i>Clinical Plasma Medicine</i> , <b>2019</b> , 14, 100086	2.8	11
90	Ex Vivo Exposure of Human Melanoma Tissue to Cold Physical Plasma Elicits Apoptosis and Modulates Inflammation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1971	2.6	11
89	Pilot-study on the influence of carrier gas and plasma application (open resp. delimited) modifications on physical plasma and its antimicrobial effect against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>GMS Krankenhaushygiene Interdisziplinär</i> , <b>2012</b> , 7, Doc02		11
88	The molecular and physiological consequences of cold plasma treatment in murine skin and its barrier function. <i>Free Radical Biology and Medicine</i> , <b>2020</b> , 161, 32-49	7.8	11
87	Plasma Treatment Limits Cutaneous Squamous Cell Carcinoma Development In Vitro and In Vivo. <i>Cancers</i> , <b>2020</b> , 12,	6.6	11
86	Plasma medical oncology: Immunological interpretation of head and neck squamous cell carcinoma. <i>Plasma Processes and Polymers</i> , <b>2020</b> , 17, 1900258	3.4	10
85	Inhibition of murine melanoma tumor growth in vitro and in vivo using an argon-based plasma jet. <i>Clinical Plasma Medicine</i> , <b>2020</b> , 19-20, 100102	2.8	10
84	Gas Plasma-Oxidized Liquids for Cancer Treatment: Preclinical Relevance, Immuno-Oncology, and Clinical Obstacles. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2020</b> , 1-1	4.2	10
83	Plasma Treatment Limits Human Melanoma Spheroid Growth and Metastasis Independent of the Ambient Gas Composition. <i>Cancers</i> , <b>2020</b> , 12,	6.6	10
82	An Innovative Therapeutic Option for the Treatment of Skeletal Sarcomas: Elimination of Osteo- and Ewing's Sarcoma Cells Using Physical Gas Plasma. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	9
81	A Neutrophil Proteomic Signature in Surgical Trauma Wounds. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	9
80	Environmental Control of an Argon Plasma Effluent and Its Role in THP-1 Monocyte Function. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 3336-3341	1.3	9
79	Identification of Two Kinase Inhibitors with Synergistic Toxicity with Low-Dose Hydrogen Peroxide in Colorectal Cancer Cells in vitro. <i>Cancers</i> , <b>2020</b> , 12,	6.6	9
78	Nonenzymatic post-translational modifications in peptides by cold plasma-derived reactive oxygen and nitrogen species. <i>Biointerphases</i> , <b>2020</b> , 15, 061008	1.8	9
77	Combination of cold plasma and pulsed electric fields [A rationale for cancer patients in palliative care. <i>Clinical Plasma Medicine</i> , <b>2019</b> , 16, 100096	2.8	9

76	Cold Atmospheric Plasma Treatment of Chondrosarcoma Cells Affects Proliferation and Cell Membrane Permeability. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	9
75	Hyperspectral Imaging of Wounds Reveals Augmented Tissue Oxygenation Following Cold Physical Plasma Treatment in Vivo. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2021</b> , 5, 412-419	4.2	9
74	Tumor cytotoxicity and immunogenicity of a novel V-jet neon plasma source compared to the kINPen. <i>Scientific Reports</i> , <b>2021</b> , 11, 136	4.9	9
73	Gas Plasma-Treated Prostate Cancer Cells Augment Myeloid Cell Activity and Cytotoxicity. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	8
72	Medical gas plasma promotes blood coagulation via platelet activation. <i>Biomaterials</i> , <b>2021</b> , 278, 120433	15.6	8
71	Effects of cold physical plasma on oral lichen planus: An in vitro study (Effects of CAP on OLP). <i>Oral Diseases</i> , <b>2021</b> , 27, 1728-1737	3.5	8
70	Development of an electrochemical sensor for in-situ monitoring of reactive species produced by cold physical plasma. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 129007	8.5	8
69	Characterization of Antimicrobial Effects of Plasma-Treated Water (PTW) Produced by Microwave-Induced Plasma (MidiPLexc) on <i>Pseudomonas fluorescens</i> Biofilms. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3118	2.6	7
68	Medical Gas Plasma Treatment in Head and Neck Cancer—Challenges and Opportunities. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1944	2.6	7
67	Reactive species driven oxidative modifications of peptides—Tracing physical plasma liquid chemistry. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 193305	2.5	7
66	Differences of the Immune Phenotype of Breast Cancer Cells after Ex Vivo Hyperthermia by Warm-Water or Microwave Radiation in a Closed-Loop System Alone or in Combination with Radiotherapy. <i>Cancers</i> , <b>2020</b> , 12,	6.6	6
65	Oxidatively Modified Proteins: Cause and Control of Diseases. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6419	2.6	6
64	Repeated exposure of the oral mucosa over 12 months with cold plasma is not carcinogenic in mice. <i>Scientific Reports</i> , <b>2021</b> , 11, 20672	4.9	6
63	Inhibition of Angiogenesis by Treatment with Cold Atmospheric Plasma as a Promising Therapeutic Approach in Oncology. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
62	Review of Innovative Physical Therapy Methods: Introduction to the Principles of Cold Physical Plasma. <i>In Vivo</i> , <b>2020</b> , 34, 3103-3107	2.3	6
61	Non-thermal plasma modulates cellular markers associated with immunogenicity in a model of latent HIV-1 infection. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247125	3.7	6
60	Argon Plasma Exposure Augments Costimulatory Ligands and Cytokine Release in Human Monocyte-Derived Dendritic Cells. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
59	ROS Cocktails as an Adjuvant for Personalized Antitumor Vaccination?. <i>Vaccines</i> , <b>2021</b> , 9,	5.3	6

58	Determination of Immediate Kinetic Growth Retardation in Physically Plasma-treated Cells by Experimental and Modelling Data. <i>Anticancer Research</i> , <b>2020</b> , 40, 3743-3749	2.3	5
57	Introduction to Plasma Medicine <b>2018</b> , 3-21		5
56	Safety Aspects of Non-Thermal Plasmas <b>2018</b> , 83-109		5
55	Plasma-Treated <i>Flammulina velutipes</i> -Derived Extract Showed Anticancer Potential in Human Breast Cancer Cells. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8395	2.6	5
54	The amino acid metabolism is essential for evading physical plasma-induced tumour cell death. <i>British Journal of Cancer</i> , <b>2021</b> , 124, 1854-1863	8.7	5
53	Small Molecules in the Treatment of Squamous Cell Carcinomas: Focus on Indirubins. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
52	The Plasma Treatment Unit: An Attempt to Standardize Cold Plasma Treatment for Defined Biological Effects. <i>Plasma Medicine</i> , <b>2018</b> , 8, 195-201	1.1	5
51	Conductivity augments ROS and RNS delivery and tumor toxicity of an argon plasma jet.. <i>Free Radical Biology and Medicine</i> , <b>2022</b> ,	7.8	4
50	Zebrafish larvae as a toxicity model in plasma medicine. <i>Plasma Processes and Polymers</i> , <b>2021</b> , 18, 20001884	3.4	4
49	Gas Plasma-Augmented Wound Healing in Animal Models and Veterinary Medicine. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
48	Cold Physical Plasma in Cancer Therapy: Mechanisms, Signaling, and Immunity.. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 9916796	6.7	4
47	Risk Evaluation of EMT and Inflammation in Metastatic Pancreatic Cancer Cells Following Plasma Treatment. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	3
46	Hypochlorous acid selectively promotes toxicity and the expression of danger signals in human abdominal cancer cells. <i>Oncology Reports</i> , <b>2021</b> , 45,	3.5	3
45	Combined Toxicity of Gas Plasma Treatment and Nanoparticles Exposure in Melanoma Cells In Vitro. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
44	The Plasma-Induced Leukemia Cell Death is Dictated by the ROS Chemistry and the HO-1/CXCL8 Axis. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2021</b> , 5, 398-411	4.2	3
43	Large volume spark discharge and plasma jet-technology for generating plasma-oxidized saline targeting colon cancer in vitro and in vivo. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 053301	2.5	3
42	Singlet-Oxygen-Induced Phospholipase A Inhibition: A Major Role for Interfacial Tryptophan Dioxidation. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14702-14710	4.8	3
41	New Approach against Chondrosoma Cells-Cold Plasma Treatment Inhibits Cell Motility and Metabolism, and Leads to Apoptosis.. <i>Biomedicines</i> , <b>2022</b> , 10,	4.8	3

40	BK virus-induced nephritis and cystitis after matched unrelated donor stem cell transplantation: A case report. <i>Clinical Case Reports (discontinued)</i> , <b>2020</b> , 8, 2839-2842	0.7	2
39	The Application of a Low-temperature Physical Plasma Device Operating Under Atmospheric Pressure Leads to the Production of Toxic NO. <i>Anticancer Research</i> , <b>2020</b> , 40, 2591-2599	2.3	2
38	Plasma Application for Hygienic Purposes in Medicine, Industry, and Biotechnology: Update 2017 <b>2018</b> , 253-281		2
37	Pro-oxidant tumor therapy in murine melanoma and pancreatic cancer. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 108, S76	7.8	2
36	Murine Macrophages Modulate Their Inflammatory Profile in Response to Gas Plasma-Inactivated Pancreatic Cancer Cells. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
35	Physical Plasma Treatment of Eight Human Cancer Cell Lines Demarcates Upregulation of CD112 as a Common Immunomodulatory Response Element. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2020</b> , 4, 343-349	4.2	2
34	The N-Terminal CCHC Zinc Finger Motif Mediates Homodimerization of Transcription Factor BCL11B. <i>Molecular and Cellular Biology</i> , <b>2018</b> , 38,	4.8	2
33	The Anticancer Efficacy of Plasma-Oxidized Saline (POS) in the Ehrlich Ascites Carcinoma Model In Vitro and In Vivo. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	2
32	Combining Biocompatible and Biodegradable Scaffolds and Cold Atmospheric Plasma for Chronic Wound Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
31	Lack of Adverse Effects of Cold Physical Plasma-Treated Blood from Leukemia Patients: A Proof-of-Concept Study. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 128	2.6	2
30	Immunology in Plasma Cancer Treatment. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 209-222	0.4	1
29	Emission of Ultraviolet Radiation from 220 to 280 NM by a Cold Physical Plasma Generating Device. <i>Health Physics</i> , <b>2020</b> , 119, 153-159	2.3	1
28	H2A.X Phosphorylation in Oxidative Stress and Risk Assessment in Plasma Medicine.. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 2060986	6.7	1
27	Medical Gas Plasma A Potent ROS-Generating Technology for Managing Intraoperative Bleeding Complications. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3800	2.6	1
26	Cell cycle-related genes associate with sensitivity to hydrogen peroxide-induced toxicity.. <i>Redox Biology</i> , <b>2022</b> , 50, 102234	11.3	0
25	Plasma-Activated Solution in Cancer Treatment. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 143-168	0.4	0
24	Immunotherapy and Immunosurveillance of Oral Cancers: Perspectives of Plasma Medicine and Mistletoe <b>2020</b> , 355-362		0
23	ROS Pleiotropy in Melanoma and Local Therapy with Physical Modalities. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 6816214	6.7	0

22	Combining Nanotechnology and Gas Plasma as an Emerging Platform for Cancer Therapy: Mechanism and Therapeutic Implication. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 2990326	6.7	o
21	Plasma-Treated Water Affects Vitality and Biofilm Structure. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 652481	5.7	o
20	Antitumor Effects in Gas Plasma-Treated Patient-Derived Microtissues: An Adjuvant Therapy for Ulcerating Breast Cancer?. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4527	2.6	o
19	A case of giant retroperitoneal lymphangioma and IgG4-positive fibrosis: Causality or coincidence?. <i>SAGE Open Medical Case Reports</i> , <b>2021</b> , 9, 2050313X211016993	0.7	o
18	Tailored Power of an RF Plasma Jet With Admixture of Nitrogen or Oxygen and Its Effects on Human Immune Cells. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 1-8	1.3	o
17	Expression of canonical transient receptor potential channels in U-2 OS and MNNG-HOS osteosarcoma cell lines. <i>Oncology Letters</i> , <b>2021</b> , 21, 307	2.6	o
16	How Safe is Plasma Treatment in Clinical Applications? <b>2022</b> , 99-126		o
15	How Does Cold Plasma Work in Medicine? <b>2022</b> , 63-86		o
14	Acquired cancer tyrosine kinase inhibitor resistance: ROS as critical determinants.. <i>Signal Transduction and Targeted Therapy</i> , <b>2021</b> , 6, 437	21	o
13	Consequences of nano and microplastic exposure in rodent models: the known and unknown.. <i>Particle and Fibre Toxicology</i> , <b>2022</b> , 19, 28	8.4	o
12	Wundmanagement [moderne Wundauflagen und Wundbehandlung in der MKG-Chirurgie. <i>Der MKG-Chirurg</i> , <b>2019</b> , 12, 41-54	0.2	
11	Perspectives in Immunology of Wound Healing <b>2018</b> , 401-408		
10	Cancer Immunology <b>2018</b> , 409-419		
9	Perspectives in General Surgery <b>2018</b> , 347-354		
8	Biochemistry of Plasma in Cancer Therapy. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 91-142	0.4	
7	Wissenschaftliche Grundlagen, Stand und Perspektiven der Plasmamedizin <b>2016</b> , 17-32		
6	The progression of metastatic melanoma augments a pro-oxidative milieu locally but not systemically. <i>Pathology Research and Practice</i> , <b>2020</b> , 216, 153218	3.4	
5	Aktueller und perspektivischer Einsatz kalter Plasmen aus hygienischer Indikation <b>2016</b> , 137-155		

- 4 Letter. In response to: "Cold atmospheric pressure plasma for treatment of chronic wounds: drug or medical device?". *Journal of Wound Care*, **2018**, 27, 892-893 2.2
- 3 Cold Plasma Treatment for Chronic Wounds **2022**, 141-160
- 2 From Leap Innovation to Integrated Medical Care **2022**, 3-33
- 1 Cold Plasma Palliative Treatment of Cancer **2022**, 187-197