Sander Bekeschus

List of Publications by Year
in descending order

194 papers	6,967 citations	53794 45 h-index	82547 72 g-index
215 all docs	215 docs citations	215 times ranked	2900 citing authors

#	Article	IF	Citations
1	The plasma jet kINPen â€“ A powerful tool for wound healing. Clinical Plasma Medicine, 2016, 4, 19-28.	3.2	303
2	Clinical experience with cold plasma in the treatment of locally advanced head and neck cancer. Clinical Plasma Medicine, 2018, 9, 6-13.	3.2	236
3	Plasma Medicine: Applications of Cold Atmospheric Pressure Plasma in Dermatology. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	4.0	227
4	Hydrogen peroxide: A central player in physical plasma-induced oxidative stress in human blood cells. Free Radical Research, 2014, 48, 542-549.	3.3	201
5	Plasma Medicine: A Field of Applied Redox Biology. In Vivo, 2019, 33, 1011-1026.	1.3	189
6	A cold plasma jet accelerates wound healing in a murine model of fullâ€thickness skin wounds. Experimental Dermatology, 2017, 26, 156-162.	2.9	181
7	ROS from Physical Plasmas: Redox Chemistry for Biomedical Therapy. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-29.	4.0	168
8	Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. Cancers, 2020, 12, 269.	3.7	131
9	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.	1.7	126
10	White paper on plasma for medicine and hygiene: Future in plasma health sciences. Plasma Processes and Polymers, 2019, 16, 1800033.	3.0	123
11	Non-thermal plasma-treated solution demonstrates antitumor activity against pancreatic cancer cells in vitro and in vivo. Scientific Reports, 2017, 7, 8319.	3.3	114
12	Physical plasma-treated saline promotes an immunogenic phenotype in CT26 colon cancer cells in vitro and in vivo. Scientific Reports, 2019, 9, 634.	3.3	107
13	Oxygen atoms are critical in rendering THP-1 leukaemia cells susceptible to cold physical plasma-induced apoptosis. Scientific Reports, 2017, 7, 2791.	3.3	106
14	Investigating the Mutagenicity of a Cold Argon-Plasma Jet in an HET-MN Model. PLoS ONE, 2016, 11, e0160667.	2.5	91
15	Impact of non-thermal plasma treatment on MAPK signaling pathways of human immune cell lines. Immunobiology, 2013, 218, 1248-1255.	1.9	90
16	Combination of chemotherapy and physical plasma elicits melanoma cell death via upregulation of SLC22A16. Cell Death and Disease, 2018, 9, 1179.	6.3	88
17	Chemistry and biochemistry of cold physical plasma derived reactive species in liquids. Biological Chemistry, 2018, 400, 19-38.	2.5	87
18	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, 868.	4.1	86

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19	Medical Gas Plasma Jet Technology Targets Murine Melanoma in an Immunogenic Fashion. Advanced Science, 2020, 7, 1903438.	11.2	84
20	Non-thermal plasma treatment is associated with changes in transcriptome of human epithelial skin cells. Free Radical Research, 2013, 47, 577-592.	3.3	81
21	Nrf2 signaling and inflammation are key events in physical plasma-spurred wound healing. Theranostics, 2019, 9, 1066-1084.	10.0	81
22	Human Mononuclear Cell Survival and Proliferation is Modulated by Cold Atmospheric Plasma Jet. Plasma Processes and Polymers, 2013, 10, 706-713.	3.0	76
23	Plasma-Treated Solutions (PTS) in Cancer Therapy. Cancers, 2021, 13, 1737.	3.7	70
24	Chemical fingerprints of cold physical plasmas â€“ an experimental and computational study using cysteine as tracer compound. Scientific Reports, 2018, 8, 7736.	3.3	67
25	Medical gas plasma-stimulated wound healing: Evidence and mechanisms. Redox Biology, 2021, 46, 102116.	9.0	65
26	Low-Temperature Plasma for Biology, Hygiene, and Medicine: Perspective and Roadmap. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 127-157.	3.7	64
27	Non-thermal plasma-induced immunogenic cell death in cancer. Journal Physics D: Applied Physics, 2019, 52, 423001.	2.8	63
28	Nitrogen Shielding of an Argon Plasma Jet and Its Effects on Human Immune Cells. IEEE Transactions on Plasma Science, 2015, 43, 776-781.	1.3	61
29	Cell migration and adhesion of a human melanoma cell line is decreased by cold plasma treatment. Clinical Plasma Medicine, 2015, 3, 24-31.	3.2	60
30	Redox Stimulation of Human THP-1 Monocytes in Response to Cold Physical Plasma. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-11.	4.0	57
31	Viability of Human Blood Leukocytes Compared with Their Respective Cell Lines after Plasma Treatment. Plasma Medicine, 2013, 3, 71-80.	0.6	55
32	Toxicity and Immunogenicity in Murine Melanoma following Exposure to Physical Plasma-Derived Oxidants. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-12.	4.0	55
33	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.	2.2	55
34	Maintaining health by balancing microbial exposure and prevention of infection: the hygiene hypothesis versus the hypothesis of early immune challenge. Journal of Hospital Infection, 2013, 83, S29-S34.	2.9	54
35	Periodic Exposure of Keratinocytes to Cold Physical Plasma: AnIn VitroModel for Redox-Related Diseases of the Skin. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-17.	4.0	54
36	Redox Regulation of Inflammatory Processes Is Enzymatically Controlled. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-23.	4.0	54

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37	Nonthermal Plasma Increases Expression of Wound Healing Related Genes in a Keratinocyte Cell Line. Plasma Medicine, 2013, 3, 125-136.	0.6	53
38	Basic Research in Plasma Medicine - A Throughput Approach from Liquids to Cells. Journal of Visualized Experiments, 2017, , .	0.3	53
39	Neutrophil extracellular trap formation is elicited in response to cold physical plasma. Journal of Leukocyte Biology, 2016, 100, 791-799.	3.3	52
40	Cold Atmospheric Pressure Plasma in Wound Healing and Cancer Treatment. Applied Sciences (Switzerland), 2020, 10, 6898.	2.5	52
41	Physical Plasma Elicits Immunogenic Cancer Cell Death and Mitochondrial Singlet Oxygen. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 138-146.	3.7	51
42	Cold Physical Plasma Treatment Alters Redox Balance in Human Immune Cells. Plasma Medicine, 2013, 3, 267-278.	0.6	50
43	Treating cancer with cold physical plasma: On the way to evidenceâ€based medicine. Contributions To Plasma Physics, 2018, 58, 415-419.	1.1	49
44	Cold Atmospheric Plasma Is a Potent Tool to Improve Chemotherapy in Melanoma In Vitro and In Vivo. Biomolecules, 2020, 10, 1011.	4.0	49
45	Differential Viability of Eight Human Blood Mononuclear Cell Subpopulations After Plasma Treatment. Plasma Medicine, 2013, 3, 1-13.	0.6	48
46	xCT (SLC7A11) expression confers intrinsic resistance to physical plasma treatment in tumor cells. Redox Biology, 2020, 30, 101423.	9.0	47
47	Consequences of nano and microplastic exposure in rodent models: the known and unknown. Particle and Fibre Toxicology, 2022, 19, 28.	6.2	47
48	A Comparison of Floating-Electrode DBD and kINPen Jet: Plasma Parameters to Achieve Similar Growth Reduction in Colon Cancer Cells Under Standardized Conditions. Plasma Chemistry and Plasma Processing, 2018, 38, 1-12.	2.4	46
49	Cold Atmospheric Plasma (CAP) and CAP-Stimulated Cell Culture Media Suppress Ovarian Cancer Cell Growth â€“ A Putative Treatment Option in Ovarian Cancer Therapy. Anticancer Research, 2017, 37, 6739-6744.	1.1	46
50	Cold Physical Plasmas in the Field of Hygieneâ€"Relevance, Significance, and Future Applications. Plasma Processes and Polymers, 2015, 12, 1410-1422.	3.0	45
51	Redoxâ€regulation of activator protein 1 family members in blood cancer cell lines exposed to cold physical plasmaâ€treated medium. Plasma Processes and Polymers, 2016, 13, 1179-1188.	3.0	45
52	Cold Atmospheric Plasma in the Treatment of Osteosarcoma. International Journal of Molecular Sciences, 2017, 18, 2004.	4.1	44
53	Redox for Repair: Cold Physical Plasmas and Nrf2 Signaling Promoting Wound Healing. Antioxidants, 2018, 7, 146.	5.1	44
54	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, 1-15.	4.0	44

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55	Cold Physical Plasma Modulates p53 and Mitogen-Activated Protein Kinase Signaling in Keratinocytes. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-16.	4.0	44
56	Potentiating anti-tumor immunity with physical plasma. Clinical Plasma Medicine, 2018, 12, 17-22.	3.2	42
57	Gas Plasma Technology Augments Ovalbumin Immunogenicity and OTâ€‖ T Cell Activation Conferring Tumor Protection in Mice. Advanced Science, 2021, 8, 2003395.	11.2	41
58	Role of Ambient Gas Composition on Cold Physical Plasma-Elicited Cell Signaling in Keratinocytes. Biophysical Journal, 2017, 112, 2397-2407.	0.5	40
59	Risk Assessment of kINPen Plasma Treatment of Four Human Pancreatic Cancer Cell Lines with Respect to Metastasis. Cancers, 2019, 11, 1237.	3.7	40
60	Targeting malignant melanoma with physical plasmas. Clinical Plasma Medicine, 2018, 10, 1-8.	3.2	39
61	Cold Physical Plasma Selectively Elicits Apoptosis in Murine Pancreatic Cancer Cells In Vitro and In Ovo. Anticancer Research, 2018, 38, 5655-5663.	1.1	39
62	Cytochrome C oxidase Inhibition and Cold Plasma-derived Oxidants Synergize in Melanoma Cell Death Induction. Scientific Reports, 2018, 8, 12734.	3.3	38
63	Physical plasma-triggered ROS induces tumor cell death upon cleavage of HSP90 chaperone. Scientific Reports, 2019, 9, 4112.	3.3	37
64	A myeloid and lymphoid infiltrate in murine pancreatic tumors exposed to plasma-treated medium. Clinical Plasma Medicine, 2018, 11, 10-17.	3.2	35
65	Physical plasma and leukocytes â€“ immune or reactive?. Biological Chemistry, 2018, 400, 63-75.	2.5	35
66	Gas plasma irradiation of breast cancers promotes immunogenicity, tumor reduction, and an abscopal effect in vivo. OncoImmunology, 2021, 10, 1859731.	4.6	34
67	Conductivity augments ROS and RNS delivery and tumor toxicity of an argon plasma jet. Free Radical Biology and Medicine, 2022, 180, 210-219.	2.9	34
68	Cold physical plasma selects for specific T helper cell subsets with distinct cells surface markers in a caspaseâ€dependent and NFâ€ÎºBâ€independent manner. Plasma Processes and Polymers, 2016, 13, 1144-1150.	3.0	33
69	Platelets are key in cold physical plasma-facilitated blood coagulation in mice. Clinical Plasma Medicine, 2017, 7-8, 58-65.	3.2	33
70	RAW 264.7 Macrophage Polarization by Pancreatic Cancer Cells â€“ A Model for Studying Tumour-promoting Macrophages. Anticancer Research, 2019, 39, 2871-2882.	1.1	33
71	Tumor cell metabolism correlates with resistance to gas plasma treatment: The evaluation of three dogmas. Free Radical Biology and Medicine, 2021, 167, 12-28.	2.9	33
72	Gas Plasma-Conditioned Ringerâ€™s Lactate Enhances the Cytotoxic Activity of Cisplatin and Gemcitabine in Pancreatic Cancer In Vitro and In Ovo. Cancers, 2020, 12, 123.	3.7	32

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73	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, 1379.	4.1	31
74	On a heavy path â€“ determining cold plasma-derived short-lived species chemistry using isotopic labelling. RSC Advances, 2020, 10, 11598-11607.	3.6	31
75	Activation of Murine Immune Cells upon Co-culture with Plasma-treated B16F10 Melanoma Cells. Applied Sciences (Switzerland), 2019, 9, 660.	2.5	30
76	Gas plasma-spurred wound healing is accompanied by regulation of focal adhesion, matrix remodeling, and tissue oxygenation. Redox Biology, 2021, 38, 101809.	9.0	30
77	Hmox1 Upregulation Is a Mutual Marker in Human Tumor Cells Exposed to Physical Plasma-Derived Oxidants. Antioxidants, 2018, 7, 151.	5.1	29
78	Cold Argon Plasma as Adjuvant Tumour Therapy on Progressive Head and Neck Cancer: A Preclinical Study. Applied Sciences (Switzerland), 2019, 9, 2061.	2.5	29
79	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.	2.9	29
80	Nonenzymatic post-translational modifications in peptides by cold plasma-derived reactive oxygen and nitrogen species. Biointerphases, 2020, 15, 061008.	1.6	29
81	Gas Plasma Technologyâ€"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.	3.7	28
82	Combination Treatment with Cold Physical Plasma and Pulsed Electric Fields Augments ROS Production and Cytotoxicity in Lymphoma. Cancers, 2020, 12, 845.	3.7	28
83	The feed gas composition determines the degree of physical plasma-induced platelet activation for blood coagulation. Plasma Sources Science and Technology, 2018, 27, 034001.	3.1	27
84	Nonthermal Plasma Jet Treatment Negatively Affects the Viability and Structure of Candida albicans SC5314 Biofilms. Applied and Environmental Microbiology, 2018, 84, .	3.1	27
85	In Vitro Anticancer Efficacy of Six Different Clinically Approved Types of Liquids Exposed to Physical Plasma. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 588-596.	3.7	26
86	Reactive species driven oxidative modifications of peptidesâ€"Tracing physical plasma liquid chemistry. Journal of Applied Physics, 2021, 129, .	2.5	26
87	Cold Physical Plasma-Treated Buffered Saline Solution as Effective Agent Against Pancreatic Cancer Cells. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 824-831.	1.7	26
88	Plasma Treatment Limits Cutaneous Squamous Cell Carcinoma Development In Vitro and In Vivo. Cancers, 2020, 12, 1993.	3.7	25
89	Inhibition of murine melanoma tumor growth in vitro and in vivo using an argon-based plasma jet. Clinical Plasma Medicine, 2020, 19-20, 100102.	3.2	24
90	Cold Atmospheric Plasma Treatment of Chondrosarcoma Cells Affects Proliferation and Cell Membrane Permeability. International Journal of Molecular Sciences, 2020, 21, 2291.	4.1	24

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91	Synergistic Inhibition of Tumor Cell Proliferation by Cold Plasma and Gemcitabine. Plasma Processes and Polymers, 2015, 12, 1377-1382.	3.0	23
92	Distinct cytokine and chemokine patterns in chronic diabetic ulcers and acute wounds. Experimental Dermatology, 2017, 26, 145-147.	2.9	23
93	Gas plasma-oxidized liquids for cancer treatment: pre-clinical relevance, immuno-oncology, and clinical obstacles. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, , 1-1.	3.7	23
94	Physical Plasma-Treated Skin Cancer Cells Amplify Tumor Cytotoxicity of Human Natural Killer (NK) Cells. Cancers, 2020, 12, 3575.	3.7	23
95	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. Cancers, 2020, 12, 1082.	3.7	23
96	Ex Vivo Exposure of Human Melanoma Tissue to Cold Physical Plasma Elicits Apoptosis and Modulates Inflammation. Applied Sciences (Switzerland), 2020, 10, 1971.	2.5	23
97	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.	3.7	23
98	Tumor cytotoxicity and immunogenicity of a novel V-jet neon plasma source compared to the kINPen. Scientific Reports, 2021, 11, 136.	3.3	23
99	Cold Physical Plasma in Cancer Therapy: Mechanisms, Signaling, and Immunity. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-19.	4.0	23
100	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. Skin Pharmacology and Physiology, 2014, 27, 148-157.	2.5	22
101	Plasma-Derived Reactive Species Shape a Differentiation Profile in Human Monocytes. Applied Sciences (Switzerland), 2019, 9, 2530.	2.5	22
102	Redox regulation of leukocyte-derived microparticle release and protein content in response to cold physical plasma-derived oxidants. Clinical Plasma Medicine, 2017, 7-8, 24-35.	3.2	21
103	Repeated exposure of the oral mucosa over 12Âmonths with cold plasma is not carcinogenic in mice. Scientific Reports, 2021, 11, 20672.	3.3	21
104	Singletâ€Oxygenâ€induced Phospholipase A₂ Inhibition: A Major Role for Interfacial Tryptophan Dioxidation. Chemistry - A European Journal, 2021, 27, 14702-14710.	3.3	20
105	Plasma Treatment Limits Human Melanoma Spheroid Growth and Metastasis Independent of the Ambient Gas Composition. Cancers, 2020, 12, 2570.	3.7	19
106	Plasma medical oncology: Immunological interpretation of head and neck squamous cell carcinoma. Plasma Processes and Polymers, 2020, 17, 1900258.	3.0	19
107	Antimicrobial effects of microwaveâ€induced plasma torch (MiniMIP) treatment on Candida albicans biofilms. Microbial Biotechnology, 2019, 12, 1034-1048.	4.2	18
108	Combination of cold plasma and pulsed electric fields â€“ A rationale for cancer patients in palliative care. Clinical Plasma Medicine, 2019, 16, 100096.	3.2	18

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109	Medical gas plasma promotes blood coagulation via platelet activation. Biomaterials, 2021, 278, 120433.	11.4	18
110	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.	7.8	18
111	Pilot-study on the influence of carrier gas and plasma application (open resp. delimited) modifications on physical plasma and its antimicrobial effect against Pseudomonas aeruginosa and Staphylococcus aureus. GMS Krankenhaushygiene InterdisziplinÃr, 2012, 7, Doc02.	0.3	18
112	Plasma Treatment of Ovarian Cancer Cells Mitigates Their Immuno-Modulatory Products Active on THP-1 Monocytes. Plasma, 2018, 1, 201-217.	1.8	17
113	A Neutrophil Proteomic Signature in Surgical Trauma Wounds. International Journal of Molecular Sciences, 2018, 19, 761.	4.1	17
114	Can the effect of cold physical plasma-derived oxidants be transported via thiol group oxidation?. Clinical Plasma Medicine, 2019, 14, 100086.	3.2	17
115	Effects of cold physical plasma on oral lichen planus: An in vitro study (Effects of CAP on OLP). Oral Diseases, 2021, 27, 1728-1737.	3.0	17
116	An Innovative Therapeutic Option for the Treatment of Skeletal Sarcomas: Elimination of Osteo- and Ewingâ€™s Sarcoma Cells Using Physical Gas Plasma. International Journal of Molecular Sciences, 2020, 21, 4460.	4.1	17
117	Gas Plasma-Treated Prostate Cancer Cells Augment Myeloid Cell Activity and Cytotoxicity. Antioxidants, 2020, 9, 323.	5.1	17
118	Proteomic Tools to Characterize Non-Thermal Plasma Effects in Eukaryotic Cells. Plasma Medicine, 2013, 3, 81-95.	0.6	16
119	Gas Plasma-Augmented Wound Healing in Animal Models and Veterinary Medicine. Molecules, 2021, 26, 5682.	3.8	16
120	The N-Terminal CCHC Zinc Finger Motif Mediates Homodimerization of Transcription Factor BCL11B. Molecular and Cellular Biology, 2018, 38, .	2.3	15
121	Characterization of Antimicrobial Effects of Plasma-Treated Water (PTW) Produced by Microwave-Induced Plasma (MidiPLexc) on Pseudomonas fluorescens Biofilms. Applied Sciences (Switzerland), 2020, 10, 3118.	2.5	15
122	Small Molecules in the Treatment of Squamous Cell Carcinomas: Focus on Indirubins. Cancers, 2021, 13, 1770.	3.7	15
123	Plasma-treated medium tunes the inflammatory profile in murine bone marrow-derived macrophages. Clinical Plasma Medicine, 2018, 11, 1-9.	3.2	14
124	Identification of Two Kinase Inhibitors with Synergistic Toxicity with Low-Dose Hydrogen Peroxide in Colorectal Cancer Cells In vitro. Cancers, 2020, 12, 122.	3.7	14
125	Risk Evaluation of EMT and Inflammation in Metastatic Pancreatic Cancer Cells Following Plasma Treatment. Frontiers in Physics, 2020, 8, .	2.1	14
126	Plasma Medicine Technologies. Applied Sciences (Switzerland), 2021, 11, 4584.	2.5	14

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127	Cold atmospheric pressure plasma treatment combined with starvation increases autophagy and apoptosis in melanoma inÂvitro and in vivo. Experimental Dermatology, 2022, 31, 1016-1028.	2.9	14
128	H2A.X Phosphorylation in Oxidative Stress and Risk Assessment in Plasma Medicine. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-18.	4.0	14
129	Review of Innovative Physical Therapy Methods: Introduction to the Principles of Cold Physical Plasma. In Vivo, 2020, 34, 3103-3107.	1.3	13
130	Argon Plasma Exposure Augments Costimulatory Ligands and Cytokine Release in Human Monocyte-Derived Dendritic Cells. International Journal of Molecular Sciences, 2021, 22, 3790.	4.1	13
131	Inhibition of Angiogenesis by Treatment with Cold Atmospheric Plasma as a Promising Therapeutic Approach in Oncology. International Journal of Molecular Sciences, 2020, 21, 7098.	4.1	12
132	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, .	2.5	12
133	ROS Cocktails as an Adjuvant for Personalized Antitumor Vaccination?. Vaccines, 2021, 9, 527.	4.4	12
134	Oxidatively Modified Proteins: Cause and Control of Diseases. Applied Sciences (Switzerland), 2020, 10, 6419.	2.5	12
135	Combining Nanotechnology and Gas Plasma as an Emerging Platform for Cancer Therapy: Mechanism and Therapeutic Implication. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-20.	4.0	12
136	New Approach against Chondrosoma Cellsâ€"Cold Plasma Treatment Inhibits Cell Motility and Metabolism, and Leads to Apoptosis. Biomedicines, 2022, 10, 688.	3.2	12
137	Medical Gas Plasma Treatment in Head and Neck Cancerâ€"Challenges and Opportunities. Applied Sciences (Switzerland), 2020, 10, 1944.	2.5	11
138	The amino acid metabolism is essential for evading physical plasma-induced tumour cell death. British Journal of Cancer, 2021, 124, 1854-1863.	6.4	11
139	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	10
140	Non-thermal plasma modulates cellular markers associated with immunogenicity in a model of latent HIV-1 infection. PLoS ONE, 2021, 16, e0247125.	2.5	10
141	Plasma-Treated Water Affects Listeria monocytogenes Vitality and Biofilm Structure. Frontiers in Microbiology, 2021, 12, 652481.	3.5	10
142	Plasma-Treated Flammulina velutipes-Derived Extract Showed Anticancer Potential in Human Breast Cancer Cells. Applied Sciences (Switzerland), 2020, 10, 8395.	2.5	9
143	Zebrafish larvae as a toxicity model in plasma medicine. Plasma Processes and Polymers, 2021, 18, 2000188.	3.0	9
144	Combined Toxicity of Gas Plasma Treatment and Nanoparticles Exposure in Melanoma Cells In Vitro. Nanomaterials, 2021, 11, 806.	4.1	9

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145	Patient-Derived Human Basal and Cutaneous Squamous Cell Carcinoma Tissues Display Apoptosis and Immunomodulation following Gas Plasma Exposure with a Certified Argon Jet. International Journal of Molecular Sciences, 2021, 22, 11446.	4.1	9
146	Cell cycle-related genes associate with sensitivity to hydrogen peroxide-induced toxicity. Redox Biology, 2022, 50, 102234.	9.0	9
147	Oxidants and Redox Signaling: Perspectives in Cancer Therapy, Inflammation, and Plasma Medicine. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-2.	4.0	8
148	Determination of Immediate vs. Kinetic Growth Retardation in Physically Plasma-treated Cells by Experimental and Modelling Data. Anticancer Research, 2020, 40, 3743-3749.	1.1	8
149	Hypochlorous acid selectively promotes toxicity and the expression of danger signals in human abdominal cancer cells. Oncology Reports, 2021, 45, .	2.6	8
150	Antitumor Effects in Gas Plasma-Treated Patient-Derived Microtissuesâ€"An Adjuvant Therapy for Ulcerating Breast Cancer?. Applied Sciences (Switzerland), 2021, 11, 4527.	2.5	8
151	Multimodal Imaging Techniques to Evaluate the Anticancer Effect of Cold Atmospheric Pressure Plasma. Cancers, 2021, 13, 2483.	3.7	8
152	In Vitro Examinations of Cell Death Induction and the Immune Phenotype of Cancer Cells Following Radiative-Based Hyperthermia with 915 MHz in Combination with Radiotherapy. Cells, 2021, 10, 1436.	4.1	8
153	Combining Biocompatible and Biodegradable Scaffolds and Cold Atmospheric Plasma for Chronic Wound Regeneration. International Journal of Molecular Sciences, 2021, 22, 9199.	4.1	8
154	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.	3.7	7
155	Gas Plasma Exposure of Glioblastoma Is Cytotoxic and Immunomodulatory in Patient-Derived GBM Tissue. Cancers, 2022, 14, 813.	3.7	7
156	Biocompatible Gas Plasma Treatment Affects Secretion Profiles but Not Osteogenic Differentiation in Patient-Derived Mesenchymal Stromal Cells. International Journal of Molecular Sciences, 2022, 23, 2038.	4.1	7
157	Introduction to Plasma Medicine. , 2018, , 3-21.		6
158	Safety Aspects of Non-Thermal Plasmas. , 2018, , 83-109.		6
159	The Plasma Treatment Unit: An Attempt to Standardize Cold Plasma Treatment for Defined Biological Effects. Plasma Medicine, 2018, 8, 195-201.	0.6	6
160	Physical Plasma Treatment of Eight Human Cancer Cell Lines Demarcates Upregulation of CD112 as a Common Immunomodulatory Response Element. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 343-349.	3.7	6
161	Tailored Power of an RF Plasma Jet With Admixture of Nitrogen or Oxygen and Its Effects on Human Immune Cells. IEEE Transactions on Plasma Science, 2021, 49, 3336-3343.	1.3	6
162	Murine Macrophages Modulate Their Inflammatory Profile in Response to Gas Plasma-Inactivated Pancreatic Cancer Cells. Cancers, 2021, 13, 2525.	3.7	6

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163	The Application of a Low-temperature Physical Plasma Device Operating Under Atmospheric Pressure Leads to the Production of Toxic NO₂. Anticancer Research, 2020, 40, 2591-2599.	1.1	5
164	ROS Pleiotropy in Melanoma and Local Therapy with Physical Modalities. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-21.	4.0	5
165	Lack of Adverse Effects of Cold Physical Plasma-Treated Blood from Leukemia Patients: A Proof-of-Concept Study. Applied Sciences (Switzerland), 2022, 12, 128.	2.5	5
166	The Anticancer Efficacy of Plasma-Oxidized Saline (POS) in the Ehrlich Ascites Carcinoma Model In Vitro and In Vivo. Biomedicines, 2021, 9, 932.	3.2	4
167	Periodic Exposure of Plasma-Activated Medium Alters Fibroblast Cellular Homoeostasis. International Journal of Molecular Sciences, 2022, 23, 3120.	4.1	4
168	Plasma Application for Hygienic Purposes in Medicine, Industry, and Biotechnology: Update 2017. , 2018, , 253-281.		3
169	How Does Cold Plasma Work in Medicine?. , 2022, , 63-86.		3
170	Acquired cancer tyrosine kinase inhibitor resistance: ROS as critical determinants. Signal Transduction and Targeted Therapy, 2021, 6, 437.	17.1	3
171	Medical Gas Plasmaâ€"A Potent ROS-Generating Technology for Managing Intraoperative Bleeding Complications. Applied Sciences (Switzerland), 2022, 12, 3800.	2.5	3
172	Plasma medicine: The great prospects when physics meets medicine. Europhysics News, 2022, 53, 20-23.	0.3	3
173	Pro-oxidant tumor therapy in murine melanoma and pancreatic cancer. Free Radical Biology and Medicine, 2017, 108, S76.	2.9	2
174	BK virusâ€induced nephritis and cystitis after matched unrelated donor stem cell transplantation: A case report. Clinical Case Reports (discontinued), 2020, 8, 2838-2841.	0.5	2
175	Expression of canonical transient receptor potential channels in U-2 OS and MNNG-HOS osteosarcoma cell lines. Oncology Letters, 2021, 21, 307.	1.8	2
176	Immunology in Plasma Cancer Treatment. Springer Series on Atomic, Optical, and Plasma Physics, 2020, , 209-222.	0.2	2
177	Plasma-Activated Solution in Cancer Treatment. Springer Series on Atomic, Optical, and Plasma Physics, 2020, , 143-168.	0.2	2
178	Immunostimulation in experimental gas plasma therapy for breast cancer. Trends in Biotechnology, 2022, 40, 1021-1024.	9.3	2
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