

# Sander Bekeschus

## List of Publications by Year in Descending Order

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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	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
182	Cell cycle-related genes associate with sensitivity to hydrogen peroxide-induced toxicity.. <i>Redox Biology</i> , <b>2022</b> , 50, 102234	11.3	0
181	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
180	Cold Plasma Treatment for Chronic Wounds <b>2022</b> , 141-160		
179	From Leap Innovation to Integrated Medical Care <b>2022</b> , 3-33		
178	How Safe is Plasma Treatment in Clinical Applications? <b>2022</b> , 99-126		0
177	How Does Cold Plasma Work in Medicine? <b>2022</b> , 63-86		0
176	Cold Plasma Palliative Treatment of Cancer <b>2022</b> , 187-197		
175	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
174	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
173	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
172	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	0
171	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
170	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
169	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	0
168	Medical gas plasma promotes blood coagulation via platelet activation. <i>Biomaterials</i> , <b>2021</b> , 278, 120433	15.6	8
167	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

166	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
165	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
164	Combined Toxicity of Gas Plasma Treatment and Nanoparticles Exposure in Melanoma Cells In Vitro. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
163	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
162	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
161	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
160	Plasma-Treated Solutions (PTS) in Cancer Therapy. <i>Cancers</i> , <b>2021</b> , 13,	6.6	20
159	Small Molecules in the Treatment of Squamous Cell Carcinomas: Focus on Indirubins. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
158	Plasma-Treated Water Affects Vitality and Biofilm Structure. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 652481	5.7	0
157	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
156	ROS Cocktails as an Adjuvant for Personalized Antitumor Vaccination?. <i>Vaccines</i> , <b>2021</b> , 9,	5.3	6
155	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
154	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
153	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	0
152	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
151	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
150	Zebrafish larvae as a toxicity model in plasma medicine. <i>Plasma Processes and Polymers</i> , <b>2021</b> , 18, 2000188	3.4	4
149	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

148	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
147	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
146	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	0
145	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	0
144	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	0
143	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
142	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
141	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
140	Gas Plasma-Augmented Wound Healing in Animal Models and Veterinary Medicine. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
139	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
138	Medical gas plasma-stimulated wound healing: Evidence and mechanisms. <i>Redox Biology</i> , <b>2021</b> , 46, 102116	6.3	15
137	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
136	Acquired cancer tyrosine kinase inhibitor resistance: ROS as critical determinants.. <i>Signal Transduction and Targeted Therapy</i> , <b>2021</b> , 6, 437	2.1	0
135	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
134	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
133	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
132	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
131	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

130	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
129	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
128	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
127	Medical Gas Plasma Jet Technology Targets Murine Melanoma in an Immunogenic Fashion. <i>Advanced Science</i> , <b>2020</b> , 7, 1903438	13.6	48
126	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
125	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
124	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
123	Molecular Mechanisms of the Efficacy of Cold Atmospheric Pressure Plasma (CAP) in Cancer Treatment. <i>Cancers</i> , <b>2020</b> , 12,	6.6	71
122	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
121	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
120	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
119	Gas Plasma-Treated Prostate Cancer Cells Augment Myeloid Cell Activity and Cytotoxicity. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	8
118	Biochemistry of Plasma in Cancer Therapy. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 91-142	0.4	
117	Plasma-Activated Solution in Cancer Treatment. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 143-168	0.4	0
116	Immunotherapy and Immunosurveillance of Oral Cancers: Perspectives of Plasma Medicine and Mistletoe <b>2020</b> , 355-362		0
115	Oxidatively Modified Proteins: Cause and Control of Diseases. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6419	2.6	6
114	Immunology in Plasma Cancer Treatment. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , <b>2020</b> , 209-222	0.4	1
113	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

112	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
111	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
110	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
109	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
108	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
107	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
106	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
105	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	
104	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
103	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
102	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
101	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
100	Plasma Treatment Limits Cutaneous Squamous Cell Carcinoma Development In Vitro and In Vivo. <i>Cancers</i> , <b>2020</b> , 12,	6.6	11
99	Cold Atmospheric Pressure Plasma in Wound Healing and Cancer Treatment. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6898	2.6	14
98	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
97	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
96	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
95	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

94	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
93	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
92	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
91	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
90	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
89	Wundmanagement [moderne Wundauflagen und Wundbehandlung in der MKG-Chirurgie. <i>Der MKG-Chirurg</i> , <b>2019</b> , 12, 41-54	0.2	
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	Plasma Medicine: A Field of Applied Redox Biology. <i>In Vivo</i> , <b>2019</b> , 33, 1011-1026	2.3	107
77	Plasma-Derived Reactive Species Shape a Differentiation Profile in Human Monocytes. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2530	2.6	16

76	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
75	ROS from Physical Plasmas: Redox Chemistry for Biomedical Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 9062098	6.7	108
74	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
73	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
72	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
71	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
70	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
69	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
68	Introduction to Plasma Medicine <b>2018</b> , 3-21		5
67	Safety Aspects of Non-Thermal Plasmas <b>2018</b> , 83-109		5
66	Plasma Application for Hygienic Purposes in Medicine, Industry, and Biotechnology: Update 2017 <b>2018</b> , 253-281		2
65	Targeting malignant melanoma with physical plasmas. <i>Clinical Plasma Medicine</i> , <b>2018</b> , 10, 1-8	2.8	31
64	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
63	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
62	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
61	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
60	Physical plasma and leukocytes - immune or reactive?. <i>Biological Chemistry</i> , <b>2018</b> , 400, 63-75	4.5	25
59	A Neutrophil Proteomic Signature in Surgical Trauma Wounds. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	9



58 Perspectives in Immunology of Wound Healing **2018**, 401-408

57 Cancer Immunology **2018**, 409-419

56 Perspectives in General Surgery **2018**, 347-354

55 Cytochrome C oxidase Inhibition and Cold Plasma-derived Oxidants Synergize in Melanoma Cell Death Induction. *Scientific Reports*, **2018**, 8, 12734 4.9 28

54 Nonthermal Plasma Jet Treatment Negatively Affects the Viability and Structure of *Candida albicans* SC5314 Biofilms. *Applied and Environmental Microbiology*, **2018**, 84, 4.8 20

53 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

52 The N-Terminal CCHC Zinc Finger Motif Mediates Homodimerization of Transcription Factor BCL11B. *Molecular and Cellular Biology*, **2018**, 38, 4.8 2

51 The Plasma Treatment Unit: An Attempt to Standardize Cold Plasma Treatment for Defined Biological Effects. *Plasma Medicine*, **2018**, 8, 195-201 1.1 5

50 Chemistry and biochemistry of cold physical plasma derived reactive species in liquids. *Biological Chemistry*, **2018**, 400, 19-38 4.5 52

49 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

48 Combination of chemotherapy and physical plasma elicits melanoma cell death via upregulation of SLC22A16. *Cell Death and Disease*, **2018**, 9, 1179 9.8 56

47 Potentiating anti-tumor immunity with physical plasma. *Clinical Plasma Medicine*, **2018**, 12, 17-22 2.8 29

46 Cold Physical Plasma Selectively Elicits Apoptosis in Murine Pancreatic Cancer Cells and. *Anticancer Research*, **2018**, 38, 5655-5663 2.3 30

45 Upregulation Is a Mutual Marker in Human Tumor Cells Exposed to Physical Plasma-Derived Oxidants. *Antioxidants*, **2018**, 7, 7.1 20

44 Redox for Repair: Cold Physical Plasmas and Nrf2 Signaling Promoting Wound Healing. *Antioxidants*, **2018**, 7, 7.1 33

43 Plasma Treatment of Ovarian Cancer Cells Mitigates Their Immuno-Modulatory Products Active on THP-1 Monocytes. *Plasma*, **2018**, 1, 201-217 1.7 15

42 Chemical fingerprints of cold physical plasmas - an experimental and computational study using cysteine as tracer compound. *Scientific Reports*, **2018**, 8, 7736 4.9 49

41 Role of Ambient Gas Composition on Cold Physical Plasma-Elicited Cell Signaling in Keratinocytes. *Biophysical Journal*, **2017**, 112, 2397-2407 2.9 28

40	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
39	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
38	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
37	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
36	Basic Research in Plasma Medicine - A Throughput Approach from Liquids to Cells. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	36
35	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
34	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
33	Distinct cytokine and chemokine patterns in chronic diabetic ulcers and acute wounds. <i>Experimental Dermatology</i> , <b>2017</b> , 26, 145-147	4	17
32	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
31	Cold Atmospheric Plasma in the Treatment of Osteosarcoma. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	27
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28	Redox Regulation of Inflammatory Processes Is Enzymatically Controlled. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 8459402	6.7	35
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26	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 <sup>3,4</sup>	3.4	29
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15	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
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13	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
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