Dayun Yan

List of Publications by Year
in descending order

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134 papers	5,808 citations	76196 40 h-index	79541 73 g-index
140 all docs	140 docs citations	140 times ranked	3960 citing authors

#	Article	IF	Citations
1	Cold atmospheric plasma in cancer therapy. Physics of Plasmas, 2013, 20, .	0.7	396
2	Cold atmospheric plasma, a novel promising anti-cancer treatment modality. Oncotarget, 2017, 8, 15977-15995.	0.8	393
3	Plasma for cancer treatment. Plasma Sources Science and Technology, 2015, 24, 033001.	1.3	331
4	Space micropropulsion systems for Cubesats and small satellites: From proximate targets to furthermost frontiers. Applied Physics Reviews, 2018, 5, .	5.5	242
5	Principles of using Cold Atmospheric Plasma Stimulated Media for Cancer Treatment. Scientific Reports, 2015, 5, 18339.	1.6	204
6	Toward understanding the selective anticancer capacity of cold atmospheric plasmaâ€"A model based on aquaporins (Review). Biointerphases, 2015, 10, 040801.	0.6	168
7	Cold atmospheric plasma treatment selectively targets head and neck squamous cell carcinoma cells. International Journal of Molecular Medicine, 2014, 34, 941-946.	1.8	164
8	Antiâ€Cancer Therapies of 21st Century: Novel Approach to Treat Human Cancers Using Cold Atmospheric Plasma. Plasma Processes and Polymers, 2014, 11, 1128-1137.	1.6	163
9	The Effect of Tuning Cold Plasma Composition on Glioblastoma Cell Viability. PLoS ONE, 2014, 9, e98652.	1.1	155
10	Cold atmospheric plasma (CAP) surface nanomodified 3D printed polylactic acid (PLA) scaffolds for bone regeneration. Acta Biomaterialia, 2016, 46, 256-265.	4.1	150
11	Increasing the length of single-wall carbon nanotubes in a magnetically enhanced arc discharge. Applied Physics Letters, 2008, 92, .	1.5	135
12	Plasmas for Treating Cancer: Opportunities for Adaptive and Self-Adaptive Approaches. Trends in Biotechnology, 2018, 36, 586-593.	4.9	131
13	Stabilizing the cold plasma-stimulated medium by regulating mediumâ€™s composition. Scientific Reports, 2016, 6, 26016.	1.6	105
14	A Novel Micro Cold Atmospheric Plasma Device for Glioblastoma Both In Vitro and In Vivo. Cancers, 2017, 9, 61.	1.7	103
15	Cold atmospheric plasma for the ablative treatment of neuroblastoma. Journal of Pediatric Surgery, 2013, 48, 67-73.	0.8	100
16	Scalable graphene production: perspectives and challenges of plasma applications. Nanoscale, 2016, 8, 10511-10527.	2.8	97
17	Advanced Materials for Nextâ€Generation Spacecraft. Advanced Materials, 2018, 30, e1802201.	11.1	92
18	Hierarchical Multicomponent Inorganic Metamaterials: Intrinsically Driven Selfâ€Assembly at the Nanoscale. Advanced Materials, 2018, 30, 1702226.	11.1	91

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19	Controlling plasma stimulated media in cancer treatment application. Applied Physics Letters, 2014, 105, .	1.5	90
20	The Specific Vulnerabilities of Cancer Cells to the Cold Atmospheric Plasma-Stimulated Solutions. Scientific Reports, 2017, 7, 4479.	1.6	83
21	Cold atmospheric plasma and iron oxide-based magnetic nanoparticles for synergetic lung cancer therapy. Free Radical Biology and Medicine, 2019, 130, 71-81.	1.3	83
22	Influence of Cold Plasma Atmospheric Jet on Surface Integrin Expression of Living Cells. Plasma Processes and Polymers, 2010, 7, 294-300.	1.6	74
23	Synergistic Effect of Cold Atmospheric Plasma and Drug Loaded Core-shell Nanoparticles on Inhibiting Breast Cancer Cell Growth. Scientific Reports, 2016, 6, 21974.	1.6	70
24	Plasma-Treated Solutions (PTS) in Cancer Therapy. Cancers, 2021, 13, 1737.	1.7	70
25	Adaptation of Operational Parameters of Cold Atmospheric Plasma for in Vitro Treatment of Cancer Cells. ACS Applied Materials & Interfaces, 2018, 10, 9269-9279.	4.0	67
26	The Cell Activation Phenomena in the Cold Atmospheric Plasma Cancer Treatment. Scientific Reports, 2018, 8, 15418.	1.6	67
27	Low-Temperature Plasma for Biology, Hygiene, and Medicine: Perspective and Roadmap. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 127-157.	2.7	64
28	Preparation of underwater superoleophobic membranes via TiO2 electrostatic self-assembly for separation of stratified oil/water mixtures and emulsions. Journal of Membrane Science, 2020, 602, 117976.	4.1	63
29	Differential Effects of Cold Atmospheric Plasma in the Treatment of Malignant Glioma. PLoS ONE, 2015, 10, e0126313.	1.1	63
30	A prospectus on innovations in the plasma treatment of cancer. Physics of Plasmas, 2018, 25, .	0.7	61
31	The Strong Cell-based Hydrogen Peroxide Generation Triggered by Cold Atmospheric Plasma. Scientific Reports, 2017, 7, 10831.	1.6	56
32	Magnetic-field-enhanced synthesis of single-wall carbon nanotubes in arc discharge. Journal of Applied Physics, 2008, 103, .	1.1	51
33	Paclitaxel and quercetin nanoparticles co-loaded in microspheres to prolong retention time for pulmonary drug delivery. International Journal of Nanomedicine, 2017, Volume 12, 8239-8255.	3.3	50
34	Effects of cold atmospheric plasma generated in deionized water in cell cancer therapy. Plasma Processes and Polymers, 2016, 13, 1151-1156.	1.6	49
35	A Physically Triggered Cell Death via Transbarrier Cold Atmospheric Plasma Cancer Treatment. ACS Applied Materials & Interfaces, 2020, 12, 34548-34563.	4.0	47
36	A map of control for cold atmospheric plasma jets: From physical mechanisms to optimizations. Applied Physics Reviews, 2021, 8, .	5.5	46

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37	Paclitaxel-Loaded Coreâ€“Shell Magnetic Nanoparticles and Cold Atmospheric Plasma Inhibit Non-Small Cell Lung Cancer Growth. ACS Applied Materials & Interfaces, 2018, 10, 43462-43471.	4.0	45
38	The Application of the Cold Atmospheric Plasma-Activated Solutions in Cancer Treatment. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 769-775.	0.9	45
39	In vitro Demonstration of Cancer Inhibiting Properties from Stratified Self-Organized Plasma-Liquid Interface. Scientific Reports, 2017, 7, 12163.	1.6	42
40	Atomic scale simulation of H₂O₂permeation through aquaporin: toward the understanding of plasma cancer treatment. Journal Physics D: Applied Physics, 2018, 51, 125401.	1.3	42
41	Electrostatic Manipulation of a Hypersonic Plasma Layer: Images of the Two-Dimensional Sheath. IEEE Transactions on Plasma Science, 2008, 36, 1198-1199.	0.6	40
42	Killing malignant melanoma cells with protoporphyrin IX-loaded polymersome-mediated photodynamic therapy and cold atmospheric plasma. International Journal of Nanomedicine, 2017, Volume 12, 4117-4127.	3.3	40
43	Combination therapy of cold atmospheric plasma (CAP) with temozolomide in the treatment of U87MG glioblastoma cells. Scientific Reports, 2020, 10, 16495.	1.6	39
44	Study on effect of microparticleâ€™s size on cavitation erosion in solid-liquid system. Journal of Applied Physics, 2007, 101, 103510.	1.1	38
45	Micro-propulsion based on vacuum arcs. Journal of Applied Physics, 2019, 125, .	1.1	38
46	Cold atmospheric plasma cancer treatment, direct versus indirect approaches. Materials Advances, 2020, 1, 1494-1505.	2.6	37
47	Cold Atmospheric Plasma Inhibits HIV-1 Replication in Macrophages by Targeting Both the Virus and the Cells. PLoS ONE, 2016, 11, e0165322.	1.1	36
48	Sheath and boundary conditions for plasma simulations of a Hall thruster discharge with magnetic lenses. Applied Physics Letters, 2009, 94, .	1.5	34
49	Paper-based ultracapacitors with carbon nanotubes-graphene composites. Journal of Applied Physics, 2014, 115, 164301.	1.1	32
50	Treatment of gastric cancer cells with nonthermal atmospheric plasma generated in water. Biointerphases, 2016, 11, 031010.	0.6	31
51	Cold atmospheric helium plasma jet in humid air environment. Journal of Applied Physics, 2019, 125, .	1.1	30
52	The anti-glioblastoma effect of cold atmospheric plasma treatment: physical pathway v.s. chemical pathway. Scientific Reports, 2020, 10, 11788.	1.6	30
53	Effect of Cold Plasma on Glial Cell Morphology Studied by Atomic Force Microscopy. PLoS ONE, 2015, 10, e0119111.	1.1	30
54	Cold Atmospheric Plasma Modified Electrospun Scaffolds with Embedded Microspheres for Improved Cartilage Regeneration. PLoS ONE, 2015, 10, e0134729.	1.1	29

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55	Nanoscaled Metamaterial as an Advanced Heat Pump and Cooling Media. Advanced Materials Technologies, 2016, 1, 1600008.	3.0	28
56	Cold Plasma Accelerates the Uptake of Gold Nanoparticles Into Glioblastoma Cells. Plasma Processes and Polymers, 2015, 12, 1364-1369.	1.6	26
57	Introducing adaptive cold atmospheric plasma: The perspective of adaptive cold plasma cancer treatments based on real-time electrochemical impedance spectroscopy. Physics of Plasmas, 2020, 27, .	0.7	26
58	In Vitro and In Vivo Enhancement of Temozolomide Effect in Human Glioblastoma by Non-Invasive Application of Cold Atmospheric Plasma. Cancers, 2021, 13, 4485.	1.7	26
59	Electric discharge during electrosurgery. Scientific Reports, 2015, 5, 9946.	1.6	25
60	Atmospheric Plasma Meets Cell: Plasma Tailoring by Living Cells. ACS Applied Materials & Interfaces, 2019, 11, 30621-30630.	4.0	25
61	Single-step synthesis of carbon encapsulated magnetic nanoparticles in arc plasma and potential biomedical applications. Journal of Colloid and Interface Science, 2018, 509, 414-421.	5.0	23
62	Integrating cold atmospheric plasma with 3D printed bioactive nanocomposite scaffold for cartilage regeneration. Materials Science and Engineering C, 2020, 111, 110844.	3.8	22
63	Cold Atmospheric Plasma Cancer Treatment, a Critical Review. Applied Sciences (Switzerland), 2021, 11, 7757.	1.3	22
64	Mathematical modeling and control for cancer treatment with cold atmospheric plasma jet. Journal Physics D: Applied Physics, 2019, 52, 185202.	1.3	21
65	The impact of radicals in cold atmospheric plasma on the structural modification of gap junction: a reactive molecular dynamics study. International Journal of Smart and Nano Materials, 2019, 10, 144-155.	2.0	21
66	Multi-Modal Biological Destruction by Cold Atmospheric Plasma: Capability and Mechanism. Biomedicines, 2021, 9, 1259.	1.4	20
67	Selective Treatment of Pancreatic Cancer Cells by Plasma-Activated Saline Solutions. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 116-120.	2.7	19
68	Thruster Subsystem for the United States Naval Academy's (USNA) Ballistically Reinforced Communication Satellite (BRICSat-P). Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pb_157-Pb_163.	0.1	18
69	Cold Atmospheric Plasma as an Adjunct to Immunotherapy for Glioblastoma Multiforme. World Neurosurgery, 2019, 130, 369-376.	0.7	18
70	The Correlation Between the Cytotoxicity of Cold Atmospheric Plasma and the Extracellular H₂O₂-Scavenging Rate. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 618-623.	2.7	17
71	Numerical Parametric Study of the Capillary Plasma Source for Electrothermalâ€“Chemical Guns. IEEE Transactions on Magnetics, 2009, 45, 574-577.	1.2	16
72	Effect of a magnetic field in simulating the plume field of an anode layer Hall thruster. Journal of Applied Physics, 2009, 105, .	1.1	15

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73	Microcathode Thruster $(muhbox{CT})$ Plume Characterization. IEEE Transactions on Plasma Science, 2011, 39, 2936-2937.	0.6	15
74	Enhancing cold atmospheric plasma treatment of cancer cells by static magnetic field. Bioelectromagnetics, 2017, 38, 53-62.	0.9	15
75	A comparative study of cold atmospheric plasma treatment, chemical versus physical strategy. Journal Physics D: Applied Physics, 2021, 54, 095207.	1.3	15
76	Preclinical Cold Atmospheric Plasma Cancer Treatment. Cancers, 2022, 14, 3461.	1.7	15
77	Inhibition of the ultrasonic microjet-pits on the carbon steel in the particles-water mixtures. AIP Advances, 2015, 5, .	0.6	14
78	Anodic plasma in Hall thrusters. Journal of Applied Physics, 2008, 103, 053309.	1.1	13
79	Correlation Between Formation of the Plasma Jet and Synthesis of Graphene in Arc Discharge. IEEE Transactions on Plasma Science, 2011, 39, 2366-2367.	0.6	13
80	Plasma-wall interaction in Hall thrusters with magnetic lens configuration. Journal of Applied Physics, 2012, 111, .	1.1	13
81	Cold plasma-based control of the activation of pancreatic adenocarcinoma cells. Journal Physics D: Applied Physics, 2019, 52, 445202.	1.3	13
82	Sensitization of glioblastoma cells to temozolomide by a helium gas discharge tube. Physics of Plasmas, 2020, 27, .	0.7	13
83	On the selective killing of cold atmospheric plasma cancer treatment: Status and beyond. Plasma Processes and Polymers, 2021, 18, 2100020.	1.6	13
84	Canady Helios Cold Plasma Induces Breast Cancer Cell Death by Oxidation of Histone mRNA. International Journal of Molecular Sciences, 2021, 22, 9578.	1.8	13
85	Cold Atmospheric Plasma as a Novel Therapeutic Tool for the Treatment of Brain Cancer. Current Pharmaceutical Design, 2020, 26, 2195-2206.	0.9	13
86	Improving Seed Germination by Cold Atmospheric Plasma. Plasma, 2022, 5, 98-110.	0.7	13
87	Progress Towards an End-to-End Model of an Electrothermal Chemical Gun. IEEE Transactions on Magnetics, 2009, 45, 412-416.	1.2	12
88	Plasma-enabled healing of graphene nano-platelets layer. Frontiers of Chemical Science and Engineering, 2019, 13, 350-359.	2.3	12
89	Therapeutic Approaches Based on Plasmas and Nanoparticles. Journal of Nanomedicine Research, 2016, 3, .	1.8	12
90	Selfâ€Adaptive Plasma Chemistry and Intelligent Plasma Medicine. Advanced Intelligent Systems, 2022, 4, 2100112.	3.3	12

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91	The activation of cancer cells by a nanosecond-pulsed magnetic field generator. Journal Physics D: Applied Physics, 2020, 53, 125401.	1.3	11
92	Cold Plasma Discharge Tube Enhances Antitumoral Efficacy of Temozolomide. ACS Applied Bio Materials, 2022, 5, 1610-1623.	2.3	11
93	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. Scientific Reports, 2015, 5, 13379.	1.6	10
94	Plasma treatment for next-generation nanobiointerfaces. Biointerphases, 2015, 10, 029405.	0.6	9
95	BCL2A1 regulates Canady Helios Cold Plasma-induced cell death in triple-negative breast cancer. Scientific Reports, 2022, 12, 4038.	1.6	9
96	Enhanced human bone marrow mesenchymal stem cell functions on cathodic arc plasma-treated titanium. International Journal of Nanomedicine, 2015, 10, 7385.	3.3	8
97	Simulation of Carbon Arc Discharge for the Synthesis of Nanotubes. IEEE Transactions on Plasma Science, 2011, 39, 2876-2877.	0.6	7
98	Microstructure changes in radiochromic films due to magnetic field and radiation. Medical Physics, 2019, 46, 293-301.	1.6	7
99	On applicability of the â€œthermalized potentialâ€•solver in simulations of the plasma flow in Hall thrusters. Journal of Applied Physics, 2013, 114, 103305.	1.1	5
100	Deflection of Streamer Path in DC Electric Potential. IEEE Transactions on Plasma Science, 2014, 42, 2402-2403.	0.6	5
101	Continuousâ€wave plasmaâ€generated electric field in 3D collagen gel during cold atmospheric plasma treatment. Plasma Processes and Polymers, 2019, 16, 1900129.	1.6	5
102	Tracking nanoparticle growth in pulsed carbon arc discharge. Journal of Applied Physics, 2020, 127, 243301.	1.1	5
103	Anti-Melanoma Capability of Contactless Cold Atmospheric Plasma Treatment. International Journal of Molecular Sciences, 2021, 22, 11728.	1.8	5
104	Wettability Improvement in Oilâ€“Water Separation by Nano-Pillar ZnO Texturing. Nanomaterials, 2022, 12, 740.	1.9	5
105	Formation of the self-assembled structures by the ultrasonic cavitation erosion-corrosion effect on carbon steel. AIP Advances, 2015, 5, 117132.	0.6	4
106	Energy considerations regarding pulsed arc production of nanomaterials. Journal of Applied Physics, 2020, 128, 033303.	1.1	4
107	Non-thermal plasma multi-jet platform based on a flexible matrix. Review of Scientific Instruments, 2021, 92, 083505.	0.6	4
108	Progress Towards an End-to-End Model of an Electrothermal Chemical Gun. , 2008, , .		3

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109	Kinetic Analysis of Electron Transport in a Cylindrical Hall Thruster. IEEE Transactions on Plasma Science, 2011, 39, 2946-2947.	0.6	3
110	Enhanced Human Bone Marrow Mesenchymal Stem Cell Chondrogenic Differentiation on Cold Atmospheric Plasma Modified Cartilage Scaffold. Materials Research Society Symposia Proceedings, 2014, 1723, 1.	0.1	3
111	Anodic arc discharge: Why pulsed?. Physics of Plasmas, 2020, 27, 054501.	0.7	3
112	Reinforcement Learning With Safe Exploration for Adaptive Plasma Cancer Treatment. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 482-492.	2.7	3
113	Modeling of a Plasma Layer in Vicinity of a Hypersonic Vehicle Using Cathodic Arc. IEEE Transactions on Plasma Science, 2014, 42, 2660-2661.	0.6	2
114	Temporal Evolution of the Discharge in U.S. Medical Innovations Electrosurgical System SS-200E/Argon-2. IEEE Transactions on Plasma Science, 2014, 42, 2742-2743.	0.6	2
115	Special Issue on Plasma Medicine. Plasma, 2018, 1, 259-260.	0.7	2
116	Model for deformation of cells from external electric fields at or near resonant frequencies. Biomedical Physics and Engineering Express, 2020, 6, 065022.	0.6	2
117	Nanosynthesis by atmospheric arc discharges excited with pulsed-DC power: a review. Nanotechnology, 2022, 33, 342001.	1.3	2
118	Plasma diagnostics of non-equilibrium atmospheric plasma jets. , 2014, , .		1
119	Arcjet Ablation of Tungsten-Based Nuclear Rocket Fuel. Journal of Spacecraft and Rockets, 2015, 52, 1003-1008.	1.3	1
120	An Investigation of the Immediate Effect of Cold Atmospheric Plasma on Cancer Cells. , 2017, , .		1
121	Application of a Micro-Cold Atmospheric Plasma Device (Î¼CAP) in Vitro and Vivo for Brain Cancer Therapy. , 2017, , .		1
122	Guest Editorial Special Issue on Micropropulsion and Cubesats. IEEE Transactions on Plasma Science, 2018, 46, 210-213.	0.6	1
123	Materials for Space Technology: Advanced Materials for Nextâ€Generation Spacecraft (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	11.1	1
124	The Granger Causal Effects of Canady Helios Cold Plasma on the Inhibition of Breast Cancer Cell Proliferation. Applied Sciences (Switzerland), 2022, 12, 4622.	1.3	1
125	Magnetic effect on the size distribution of catalyst and nanotubes under arc discharge system. , 2010, , .		0
126	Micro-cathode thruster for cube satellite propulsion. , 2012, , .		0

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127	Design a Biologically Inspired Nanostructured Coating for Better Osseointegration. Materials Research Society Symposia Proceedings, 2012, 1418, 111.	0.1	0
128	Method for graphene production in anodic arc. , 2013, , .		0
129	Micro-Cathode Arc Thruster for small sattelites attitude control. , 2014, , .		0
130	Strong H<inf>2</inf>O<inf>2</inf> Generation by Cancer Cells During the Cold Plasma Treatment. , 2017, , .		0
131	Metamaterials: Hierarchical Multicomponent Inorganic Metamaterials: Intrinsically Driven Selfâ€Assembly at the Nanoscale (Adv. Mater. 2/2018). Advanced Materials, 2018, 30, 1870009.	11.1	0
132	INTRACRANIAL TARGETING OF GLIOBLASTOMA MULTIFORME WITH COLD ATMOSPHERIC PLASMA. FASEB Journal, 2018, 32, .	0.2	0
133	Model Feedback Control for Adaptive Cold Atmospheric Plasma. , 2018, , .		0
134	The Periodic Cellular Behaviors Under the Physical Effects of Plasma Medicine. , 2021, , .		0