

Endre J Szili

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,946
citations

218381

26
h-index

264894

42
g-index

63
all docs

63
docs citations

63
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of a second ground electrode on hydrogen peroxide production from an atmospheric pressure argon plasma jet and correlation to antibacterial efficacy and mammalian cell cytotoxicity. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 125207.	1.3	13
2	Oxidative Stress Pathways Linked to Apoptosis Induction by Low-Temperature Plasma Jet Activated Media in Bladder Cancer Cells: An In Vitro and In Vivo Study. <i>Plasma</i> , 2022, 5, 233-246.	0.7	5
3	Enhancement of hydrogen peroxide production from an atmospheric pressure argon plasma jet and implications to the antibacterial activity of plasma activated water. <i>Plasma Sources Science and Technology</i> , 2021, 30, 035009.	1.3	58
4	On-demand cold plasma activation of acetyl donors for bacteria and virus decontamination. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	18
5	On cold atmospheric-pressure plasma jet induced DNA damage in cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 035203.	1.3	17
6	Plasma-liquid interactions. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	11
7	Plasma medicine: Opportunities for nanotechnology in a digital age. <i>Plasma Processes and Polymers</i> , 2020, 17, e2000097.	1.6	35
8	How membrane lipids influence plasma delivery of reactive oxygen species into cells and subsequent DNA damage: an experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19327-19341.	1.3	28
9	Transcutaneous plasma stress: From soft-matter models to living tissues. <i>Materials Science and Engineering Reports</i> , 2019, 138, 36-59.	14.8	101
10	Tailoring the Chemistry of Plasma-Activated Water Using a DC-Pulse-Driven Non-Thermal Atmospheric-Pressure Helium Plasma Jet. <i>Plasma</i> , 2019, 2, 127-137.	0.7	13
11	The role of UV photolysis and molecular transport in the generation of reactive species in a tissue model with a cold atmospheric pressure plasma jet. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	69
12	Modulating the concentrations of reactive oxygen and nitrogen species and oxygen in water with helium and argon gas and plasma jets. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SAAB01.	0.8	25
13	Tracking the Penetration of Plasma Reactive Species in Tissue Models. <i>Trends in Biotechnology</i> , 2018, 36, 594-602.	4.9	90
14	Modelling the helium plasma jet delivery of reactive species into a 3D cancer tumour. <i>Plasma Sources Science and Technology</i> , 2018, 27, 014001.	1.3	57
15	UV-vis spectroscopy study of plasma-activated water: Dependence of the chemical composition on plasma exposure time and treatment distance. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0102B9.	0.8	62
16	Investigation of Helium Plasma Jet-Treated Serum and Cell Media on the Viability of Skin Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , 2018, 8, 892-899.	0.0	1
17	Electrical and optical properties of a gradient microplasma for microfluidic chips. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600194.	1.6	2
18	On-demand Antimicrobial Treatment with Antibiotic-Loaded Porous Silicon Capped with a pH-Responsive Dual Plasma Polymer Barrier. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1605-1614.	1.7	29

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19	The assessment of cold atmospheric plasma treatment of DNA in synthetic models of tissue fluid, tissue and cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 274001.	1.3	21
20	Genotoxicity and cytotoxicity of the plasma jet-treated medium on lymphoblastoid WIL2-NS cell line using the cytokinesis block micronucleus cytome assay. <i>Scientific Reports</i> , 2017, 7, 3854.	1.6	21
21	Microplasma jet treatment of bovine serum albumin coatings for controlling enzyme and cell attachment. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2873-2885.	1.2	3
22	Microplasma Array Patterning of Reactive Oxygen and Nitrogen Species onto Polystyrene. <i>Frontiers in Physics</i> , 2017, 5, .	1.0	0
23	Mass Spectrometry Analysis of the Real-Time Transport of Plasma-Generated Ionic Species Through an Agarose Tissue Model Target. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017, 30, 317-323.	0.1	3
24	How plasma induced oxidation, oxygenation, and de-oxygenation influences viability of skin cells. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	25
25	How to assess the plasma delivery of RONS into tissue fluid and tissue. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 304005.	1.3	81
26	Fabrication and Characterization of a Porous Silicon Drug Delivery System with an Initiated Chemical Vapor Deposition Temperature-Responsive Coating. <i>Langmuir</i> , 2016, 32, 301-308.	1.6	53
27	In-situ UV Absorption Spectroscopy for Monitoring Transport of Plasma Reactive Species through Agarose as Surrogate for Tissue. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015, 28, 439-444.	0.1	33
28	Combined effect of protein and oxygen on reactive oxygen and nitrogen species in the plasma treatment of tissue. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	58
29	The hormesis effect of plasma-elevated intracellular ROS on HaCaT cells. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 495401.	1.3	16
30	Slow Molecular Transport of Plasma-Generated Reactive Oxygen and Nitrogen Species and O ₂ through Agarose as a Surrogate for Tissue. <i>Plasma Medicine</i> , 2015, 5, 125-143.	0.2	29
31	On the effect of serum on the transport of reactive oxygen species across phospholipid membranes. <i>Biointerphases</i> , 2015, 10, 029511.	0.6	33
32	Surface protein gradients generated in sealed microchannels using spatially varying helium microplasma. <i>Biomicrofluidics</i> , 2015, 9, 014124.	1.2	8
33	Gradient technologies for optimising biomaterials for cell screening. <i>Cytotherapy</i> , 2015, 17, S72.	0.3	0
34	Probing the transport of plasma-generated RONS in an agarose target as surrogate for real tissue: dependency on time, distance and material composition. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 202001.	1.3	83
35	A "tissue model"™ to study the plasma delivery of reactive oxygen species. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 152002.	1.3	103
36	Ionized gas (plasma) delivery of reactive oxygen species (ROS) into artificial cells. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 362001.	1.3	42

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37	On the effects of atmospheric-pressure microplasma array treatment on polymer and biological materials. RSC Advances, 2013, 3, 13437.	1.7	24
38	Studying the cytolytic activity of gas plasma with self-signalling phospholipid vesicles dispersed within a gelatin matrix. Journal Physics D: Applied Physics, 2013, 46, 185401.	1.3	36
39	Gradient Technology for High-Throughput Screening of Interactions between Cells and Nanostructured Materials. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	20
40	Microplasma arrays: a new approach for maskless and localized patterning of materials surfaces. RSC Advances, 2012, 2, 12007.	1.7	20
41	Combination of iCVD and Porous Silicon for the Development of a Controlled Drug Delivery System. ACS Applied Materials & Interfaces, 2012, 4, 3566-3574.	4.0	75
42	Fabrication and Operation of a Microcavity Plasma Array Device for Microscale Surface Modification. Plasma Processes and Polymers, 2012, 9, 638-646.	1.6	23
43	Electrolysis-assisted sonication for removal of proteinaceous contamination from surgical grade stainless steel. Journal of Hospital Infection, 2012, 81, 41-49.	1.4	4
44	Microplasma patterning of bonded microchannels using high-precision "injected" electrodes. Lab on a Chip, 2011, 11, 541-544.	3.1	50
45	Chemical and biomolecule patterning on 2D surfaces using atmospheric pressure microcavity plasma array devices. Proceedings of SPIE, 2011, , .	0.8	1
46	Interferometric porous silicon transducers using an enzymatically amplified optical signal. Sensors and Actuators B: Chemical, 2011, 160, 341-348.	4.0	50
47	Controlling the Spatial Distribution of Polymer Surface Treatment Using Atmospheric Pressure Microplasma Jets. Plasma Processes and Polymers, 2011, 8, 38-50.	1.6	51
48	Design of a Microplasma Device for Spatially Localised Plasma Polymerisation. Plasma Processes and Polymers, 2011, 8, 695-700.	1.6	19
49	Surface modification of biomaterials by plasma polymerization. , 2011, , 3-39.		9
50	Integration of microplasma and microfluidic technologies for localised microchannel surface modification. Proceedings of SPIE, 2011, , .	0.8	2
51	The use of a micro-cavity discharge array at atmospheric pressure to investigate the spatial modification of polymer surfaces. Surface and Coatings Technology, 2010, 204, 2279-2288.	2.2	19
52	Development of surface modification techniques for the covalent attachment of insulin-like growth factor-1 (IGF-1) on PECVD silica-coated titanium. Surface and Coatings Technology, 2010, 205, 1630-1635.	2.2	5
53	Polyoctanediol Citrate/Sebacate Bioelastomer Films: Surface Morphology, Chemistry and Functionality. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 237-251.	1.9	20
54	Combined Immunocapture and Laser Desorption/Ionization Mass Spectrometry on Porous Silicon. Analytical Chemistry, 2010, 82, 4201-4208.	3.2	58

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55	Osteoblast Biocompatibility on Poly(octanediol citrate)/Sebacate Elastomers with Controlled Wettability. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1039-1050.	1.9	7
56	Generation of a stable surface concentration of amino groups on silica coated onto titanium substrates by the plasma enhanced chemical vapour deposition method. <i>Applied Surface Science</i> , 2009, 255, 6846-6850.	3.1	20
57	Nanomechanical Characterization of Phospholipid Bilayer Islands on Flat and Porous Substrates: A Force Spectroscopy Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10339-10347.	1.2	28
58	Plasma enhanced chemical vapour deposition of silica onto titanium: Analysis of surface chemistry, morphology and hydroxylation. <i>Surface Science</i> , 2008, 602, 2402-2411.	0.8	14
59	Porous silicon biosensor for the detection of autoimmune diseases. <i>Proceedings of SPIE</i> , 2007, 6799, 66.	0.8	3
60	Thin calcium phosphate coatings on titanium by electrochemical deposition in modified simulated body fluid. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 347-355.	2.1	79
61	A biochip platform for cell transfection assays. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1395-1400.	5.3	53
62	A microarray platform for the creation of a matrix of site-specific transformed cells. , 2002, , .		2