

# Katsuhisa Kitano

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,652  
citations

471371

17  
h-index

289141

40  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1580  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of pH on Bacterial Inactivation in Aqueous Solutions due to Low-temperature Atmospheric Pressure Plasma Application. <i>Plasma Processes and Polymers</i> , 2010, 7, 33-42.	1.6	469
2	Chemical modification of amino acids by atmospheric-pressure cold plasma in aqueous solution. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 285403.	1.3	209
3	Protein Inactivation by Low-temperature Atmospheric Pressure Plasma in Aqueous Solution. <i>Plasma Processes and Polymers</i> , 2012, 9, 77-82.	1.6	158
4	Physicochemical properties of bactericidal plasma-treated water. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 425401.	1.3	153
5	Preparation of Stable Water-Dispersible PEGylated Gold Nanoparticles Assisted by Nonequilibrium Atmospheric-Pressure Plasma Jets. <i>Chemistry of Materials</i> , 2009, 21, 3526-3535.	3.2	89
6	Free radicals induced in aqueous solution by non-contact atmospheric-pressure cold plasma. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	82
7	Plasma generation inside externally supplied Ar bubbles in water. <i>Plasma Sources Science and Technology</i> , 2008, 17, 025006.	1.3	58
8	Molecular mechanism of plasma sterilization in solution with the reduced pH method: importance of permeation of HOO radicals into the cell membrane. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 295402.	1.3	51
9	Radio-Frequency-Driven Atmospheric-Pressure Plasmas in Contact with Liquid Water. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8294-8297.	0.8	38
10	A Proposal of Remedies for Oral Diseases Caused by Candida: A Mini Review. <i>Frontiers in Microbiology</i> , 2018, 9, 1522.	1.5	27
11	Experiments on additional heating of FRC plasmas. <i>Nuclear Fusion</i> , 2001, 41, 625-629.	1.6	25
12	Heating experiment of field-reversed configuration plasma by low-frequency magnetic pulse. <i>Physics of Plasmas</i> , 2000, 7, 2755-2758.	0.7	21
13	Plasma-treated water eliminates <i>Streptococcus mutans</i> in infected dentin model. <i>Dental Materials Journal</i> , 2017, 36, 422-428.	0.8	19
14	Electron density measurement of inductively coupled plasmas by terahertz time-domain spectroscopy (THz-TDS). <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	18
15	Degeneration of amyloid- $\beta$ fibrils caused by exposure to low-temperature atmospheric-pressure plasma in aqueous solution. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	18
16	Ion-exchange chromatographic analysis of peroxyntic acid. <i>Journal of Chromatography A</i> , 2016, 1431, 89-93.	1.8	18
17	Field-Reversed Configuration Maintained by Rotating Magnetic Field with High Spatial Harmonics. <i>Physical Review Letters</i> , 2007, 99, 175003.	2.9	17
18	Behaviour of a low frequency wave in a FRC plasma. <i>Nuclear Fusion</i> , 2007, 47, 677-681.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Synthesis of Uniformly Dispersed Metal Nanoparticles with Dispersion Stability by Nonequilibrium Atmospheric Plasma Jets. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2007, 20, 229-233.	0.1	12
20	Reactions of HOCO radicals through hydrogen-atom hopping utilizing clathrate hydrates as an observational matrix. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3792.	1.3	12
21	Diagnosis of superoxide anion radical induced in liquids by atmospheric-pressure plasma using superoxide dismutase. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 01AF01.	0.8	12
22	Axial compression of a field reversed configuration plasma. <i>Nuclear Fusion</i> , 1999, 39, 2009-2013.	1.6	11
23	Axial length and separatrix radius behavior of field-reversed configuration plasma in dynamic compression of mirror distance. <i>Physics of Plasmas</i> , 2000, 7, 1158-1162.	0.7	10
24	Excitation and propagation of low frequency wave in a FRC plasma. <i>Nuclear Fusion</i> , 2003, 43, 1140-1144.	1.6	9
25	Kinetics of Bacterial Inactivation by Peroxynitric Acid in the Presence of Organic Contaminants. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	9
26	Development of NIR bioimaging systems. <i>Journal of Physics: Conference Series</i> , 2008, 106, 012023.	0.3	8
27	Dynamic process during axial magnetic compression of field-reversed configuration for equilibrium shape control. <i>Physics of Plasmas</i> , 2001, 8, 3630-3634.	0.7	7
28	Nonequilibrium Atmospheric Plasma Jets Assisted Stabilization of Drug Delivery Carriers: Preparation and Characterization of Biodegradable Polymeric Nano-Micelles with Enhanced Stability. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2009, 22, 467-471.	0.1	6
29	Protein patterning by atmospheric-pressure plasmas. <i>Journal of Physics: Conference Series</i> , 2010, 232, 012019.	0.3	6
30	Sustainment and additional heating of high-beta field-reversed configuration plasmas. <i>Nuclear Fusion</i> , 2005, 45, 1094-1100.	1.6	5
31	Evaluation of fatty acid oxidation by reactive oxygen species induced in liquids using atmospheric-pressure nonthermal plasma jets. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 424010.	1.3	5
32	Investigation of a novel sterilization method for biofilms formed on titanium surfaces. <i>Dental Materials Journal</i> , 2019, 38, 654-662.	0.8	5
33	Plasma disinfection via the reduced-pH method using an ex vivo porcine contaminated skin model. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 265401.	1.3	5
34	Kinetics Analysis of the Reactions between Peroxynitric Acid and Amino Acids. <i>Chemical Research in Toxicology</i> , 2020, 33, 1633-1643.	1.7	5
35	Plaque-removal effect of ultrafine bubble water: Oral application in patients undergoing orthodontic treatment. <i>Dental Materials Journal</i> , 2021, 40, 272-278.	0.8	5
36	Propagation and damping characteristics of low-frequency waves in field-reversed configuration plasmas. <i>Physics of Plasmas</i> , 2007, 14, 102513.	0.7	4

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37	Design of Biointerface by Nonequilibrium Atmospheric Plasma Jets-Approach from Plasma Susceptible Polymers-. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 267-270.	0.1	4
38	Electron density measurement for plasmas by terahertz time-domain spectroscopy. Journal of Physics: Conference Series, 2010, 227, 012016.	0.3	4
39	Extracellular Matrix Patterning for Cell Alignment by Atmospheric Pressure Plasma Jets. Japanese Journal of Applied Physics, 2012, 51, 036201.	0.8	4
40	High microbicidal effect of peroxyntic acid on biofilm-infected dentin in a root carious tooth model and verification of tissue safety. Journal of Oral Biosciences, 2020, 62, 189-194.	0.8	4
41	Azimuthally non-uniform equilibrium of field-reversed configuration sustained by rotating magnetic field with spatial high-harmonic components. Nuclear Fusion, 2009, 49, 055010.	1.6	3
42	Creation of Biointerface by Atmospheric Plasma Treatment of Plasma Sensitive Polymeric Materials. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 481-484.	0.1	3
43	Extracellular Matrix Patterning for Cell Alignment by Atmospheric Pressure Plasma Jets. Japanese Journal of Applied Physics, 2012, 51, 036201.	0.8	3
44	Estimation method of a separatrix profile of field-reduced configuration plasma with the deconvolution concept. Review of Scientific Instruments, 1999, 70, 431-434.	0.6	2
45	Computer tomography of axially compressed field reversed configuration plasma on the FIX device. IEEE Transactions on Plasma Science, 2002, 30, 60-61.	0.6	2
46	Surface Modification of Ceramic Nanophosphors by Atmospheric Pressure Plasma. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 429-433.	0.1	2
47	Facile Creation of Biointerface on Commodity Plastic Surface by Combination of Atmospheric Plasma and Reactive Polymer Coating. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 579-583.	0.1	1
48	Propagation of Plasma Bullet in Impurity-Controlled Working Gas: from Standard to Ultrapure Atmospheric Pressure Plasma. Plasma and Fusion Research, 2019, 14, 3406068-3406068.	0.3	1
49	Additional Control Experiments on Field Reversed Configuration Plasma. Fusion Science and Technology, 2003, 43, 295-298.	0.6	0
50	High-Beta Steady-State FRC Plasma Sustained by Rotating Magnetic Field with Spatial High-Harmonic Components. Journal of Fusion Energy, 2009, 28, 162-164.	0.5	0
51	Estimation of electron densities of plasmas by terahertz time-domain spectroscopy. , 2009, , .		0
52	Diagnosis of atmospheric pressure plasmas by using terahertz time-domain spectroscopy. , 2010, , .		0
53	3C1558 Destruction of Amyloid Fibrils by Low-Temperature Atmospheric Pressure Plasma(3C Molecular) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
54	The reduced ph method with indirect plasma for safe and effective disinfection in dentistry and surgery. , 2012, , .		0