## Tetsuji Shimizu

List of Publications by Year in descending order

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TETSIIII SHIMIZII

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Plasma chemistry model of surface microdischarge in humid air and dynamics of reactive neutral species. Journal Physics D: Applied Physics, 2012, 45, 425201.                            | 2.8 | 412       |
| 2  | Cold Atmospheric Air Plasma Sterilization against Spores and Other Microorganisms of Clinical<br>Interest. Applied and Environmental Microbiology, 2012, 78, 5077-5082.                  | 3.1 | 303       |
| 3  | Bactericidal effects of non-thermal argon plasma in vitro, in biofilms and in the animal model of infected wounds. Journal of Medical Microbiology, 2011, 60, 75-83.                     | 1.8 | 293       |
| 4  | Cold Atmospheric Plasma (CAP) Changes Gene Expression of Key Molecules of the Wound Healing<br>Machinery and Improves Wound Healing In Vitro and In Vivo. PLoS ONE, 2013, 8, e79325.     | 2.5 | 265       |
| 5  | Restoration of Sensitivity in Chemo — Resistant Glioma Cells by Cold Atmospheric Plasma. PLoS ONE,<br>2013, 8, e64498.   | 2.5 | 182       |
| 6  | Characterization of Microwave Plasma Torch for Decontamination. Plasma Processes and Polymers, 2008, 5, 577-582.   | 3.0 | 174       |
| 7  | Cold atmospheric plasma, a new strategy to induce senescence in melanoma cells. Experimental<br>Dermatology, 2013, 22, 284-289.  | 2.9 | 174       |
| 8  | Cold atmospheric plasma devices for medical issues. Expert Review of Medical Devices, 2013, 10, 367-377.   | 2.8 | 166       |
| 9  | Plasma medicine: possible applications in dermatology. JDDG - Journal of the German Society of Dermatology, 2010, 8, 968-976.  | 0.8 | 165       |
| 10 | The dynamics of ozone generation and mode transition in air surface micro-discharge plasma at atmospheric pressure. New Journal of Physics, 2012, 14, 103028.                            | 2.9 | 161       |
| 11 | Inactivation of Surface-Borne Microorganisms and Increased Germination of Seed Specimen by Cold<br>Atmospheric Plasma. Food and Bioprocess Technology, 2014, 7, 645-653.                 | 4.7 | 160       |
| 12 | Decolonisation of MRSA, S. aureus and E. coli by Cold-Atmospheric Plasma Using a Porcine Skin Model<br>In Vitro. PLoS ONE, 2012, 7, e34610.  | 2.5 | 148       |
| 13 | Randomized placeboâ€controlled human pilot study of cold atmospheric argon plasma on skin graft<br>donor sites. Wound Repair and Regeneration, 2013, 21, 800-807.                        | 3.0 | 126       |
| 14 | Effects of Cold Atmospheric Plasma (CAP) on ß-Defensins, Inflammatory Cytokines, and<br>Apoptosis-Related Molecules in Keratinocytes In Vitro and In Vivo. PLoS ONE, 2015, 10, e0120041. | 2.5 | 98        |
| 15 | Contact-Free Inactivation of Candida albicans Biofilms by Cold Atmospheric Air Plasma. Applied and Environmental Microbiology, 2012, 78, 4242-4247.                                      | 3.1 | 96        |
| 16 | Red blood cell coagulation induced by low-temperature plasma treatment. Archives of Biochemistry and Biophysics, 2016, 605, 95-101.  | 3.0 | 93        |
| 17 | Cold Atmospheric Plasma. Archives of Dermatology, 2011, 147, 388.  | 1.4 | 88        |
| 18 | Plasma-Medizin: Anwendungsmöglichkeiten in der Dermatologie. JDDG - Journal of the German Society<br>of Dermatology, 2010, 8, 968-977.   | 0.8 | 76        |

Тетѕијі Ѕніміzu

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|----|---|-----|-----------|
| 19 | The effect of low-temperature plasma on bacteria as observed by repeated AFM imaging. New Journal of Physics, 2009, 11, 115023.   | 2.9 | 62        |
| 20 | Cold Atmospheric Plasma: A Promising Complementary Therapy for Squamous Head and Neck Cancer.<br>PLoS ONE, 2015, 10, e0141827.  | 2.5 | 54        |
| 21 | Formation of thermal flow fields and chemical transport in air and water by atmospheric plasma. New Journal of Physics, 2011, 13, 053025.   | 2.9 | 52        |
| 22 | Electron temperature control by varying size of slits made in a grid. Applied Physics Letters, 2000, 76, 547-549.   | 3.3 | 47        |
| 23 | Contact-free inactivation of Trichophyton rubrum and Microsporum canis by cold atmospheric plasma treatment. Future Microbiology, 2013, 8, 1097-1106.   | 2.0 | 38        |
| 24 | Cold Atmospheric Plasma for Surface Disinfection. Plasma Processes and Polymers, 2012, 9, 585-589.  | 3.0 | 37        |
| 25 | Characterization of Lowâ€Temperature Microwave Plasma Treatment With and Without UV Light for<br>Disinfection. Plasma Processes and Polymers, 2010, 7, 288-293.                                     | 3.0 | 33        |
| 26 | Contact-free cold atmospheric plasma treatment of <i>Deinococcus radiodurans</i> . Journal of<br>Industrial Microbiology and Biotechnology, 2012, 39, 1367-1375.                                    | 3.0 | 33        |
| 27 | Bactericidal Agents Produced by Surface Micro-Discharge (SMD) Plasma by Controlling Gas<br>Compositions. Plasma Processes and Polymers, 2014, 11, 426-436.  | 3.0 | 30        |
| 28 | Cold atmospheric plasma – A new technology for spacecraft component decontamination. Planetary<br>and Space Science, 2014, 90, 60-71.   | 1.7 | 29        |
| 29 | Benefits of applying low-temperature plasma treatment to wound care and hemostasis from the viewpoints of physics and pathology. Journal Physics D: Applied Physics, 2017, 50, 503001.              | 2.8 | 25        |
| 30 | Progress and perspectives in dry processes for nanoscale feature fabrication: fine pattern transfer and high-aspect-ratio feature formation. Japanese Journal of Applied Physics, 2019, 58, SE0802. | 1.5 | 24        |
| 31 | Effects of cold atmospheric plasma on mucosal tissue culture. Journal Physics D: Applied Physics, 2013, 46, 045401.   | 2.8 | 22        |
| 32 | High quality diamond formation by electron temperature control in methane–hydrogen plasma.<br>Plasma Sources Science and Technology, 2003, 12, S21-S25.   | 3.1 | 19        |
| 33 | Decontamination of Nosocomial Bacteria IncludingClostridium difficileSpores on Dry Inanimate Surface by Cold Atmospheric Plasma. Plasma Processes and Polymers, 2014, 11, 974-984.                  | 3.0 | 17        |
| 34 | Wound treatment by low-temperature atmospheric plasmas and issues in plasma engineering for plasma medicine. Japanese Journal of Applied Physics, 2020, 59, 120501.                                 | 1.5 | 16        |
| 35 | Disinfection Through Different Textiles Using Lowâ€Temperature Atmospheric Pressure Plasma. Plasma<br>Processes and Polymers, 2012, 9, 792-798.   | 3.0 | 14        |
| 36 | Development of plasma-on-chip: Plasma treatment for individual cells cultured in media. Japanese<br>Journal of Applied Physics, 2016, 55, 01AF01.   | 1.5 | 14        |

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|----|--|-----|-----------|
| 37 | Plasma-on-chip device for stable irradiation of cells cultured in media with a low-temperature atmospheric pressure plasma. Archives of Biochemistry and Biophysics, 2016, 605, 11-18.                           | 3.0 | 12        |
| 38 | Transport Mechanism of Chemical Species in a Pin-water Atmospheric Discharge driven by Negative<br>Voltage. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24,<br>421-427.    | 0.3 | 11        |
| 39 | Applications in plasma medicine: a SWOT approach. Composite Interfaces, 2012, 19, 231-238.   | 2.3 | 11        |
| 40 | Effects of cold atmospheric plasma (CAP) on bacteria and mucosa of the upper aerodigestive tract.<br>Auris Nasus Larynx, 2019, 46, 294-301.  | 1.2 | 11        |
| 41 | Measurements of emission-propagation phenomena in low-energy atmospheric-pressure helium plasma.<br>Plasma Sources Science and Technology, 2018, 27, 05LT02.   | 3.1 | 10        |
| 42 | Plasma afterglow circulation apparatus for decontamination of spacecraft equipment. AIP Advances, 2018, 8, .   | 1.3 | 10        |
| 43 | Striation phenomena in a low temperature atmospheric pressure neon plasma jet by optical emission spectroscopy. Physics of Plasmas, 2020, 27, .  | 1.9 | 9         |
| 44 | Diamond-particles levitated in a reactive plasma. Diamond and Related Materials, 2003, 12, 374-377.  | 3.9 | 8         |
| 45 | Reviews of low-temperature atmospheric pressure plasma for studying hemostasis and international standardization. Japanese Journal of Applied Physics, 2021, 60, 020502.   | 1.5 | 8         |
| 46 | Effects of electron temperature on the quality of a-Si:H and μc-Si film. Thin Solid Films, 2002, 407, 7-11.  | 1.8 | 7         |
| 47 | Surface Microdischarge Plasma for Disinfection. Plasma Medicine, 2017, 7, 175-185.   | 0.6 | 7         |
| 48 | Potential formation on dielectric surface by an atmospheric pressure helium plasma jet. Japanese<br>Journal of Applied Physics, 2019, 58, 090906.  | 1.5 | 7         |
| 49 | Progress and perspectives in dry processes for leading-edge manufacturing of devices: toward<br>intelligent processes and virtual product development. Japanese Journal of Applied Physics, 2019, 58,<br>SE0804. | 1.5 | 7         |
| 50 | Electrical characteristics of a low-temperature, atmospheric-pressure helium plasma jet. AIP Advances, 2021, 11, .   | 1.3 | 7         |
| 51 | High and broadband sensitivity front-side illuminated InGaAs photo field-effect transistors<br>(photoFETs) with SWIR transparent conductive oxide (TCO) gate. Applied Physics Letters, 2021, 119, .              | 3.3 | 7         |
| 52 | Reasons Why We Need Cold Atmospheric Plasmas in Bacteria-Related Diseases in Medicine. Plasma<br>Medicine, 2012, 2, 85-96.   | 0.6 | 6         |
| 53 | InGaAs photo field-effect-transistors (PhotoFETs) on half-inch Si wafer using layer transfer<br>technology. Japanese Journal of Applied Physics, 2020, 59, SGGE03.   | 1.5 | 6         |
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54 Plasmabehandlung von Ulzera. , 2016, , 63-71.

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|----|--|-----|-----------|
| 55 | Effect of electrical conductivity of water on plasma-driven gas flow by needle-water discharge at atmospheric pressure. Journal of Electrostatics, 2020, 104, 103422.                                    | 1.9 | 5         |
| 56 | Progress and perspectives in dry processes for emerging multidisciplinary applications: how can we improve our use of dry processes?. Japanese Journal of Applied Physics, 2019, 58, SE0803.             | 1.5 | 4         |
| 57 | Non-contact measurement of electric charges on water surface supplied with plasma. Journal of Electrostatics, 2020, 103, 103414.   | 1.9 | 4         |
| 58 | Low Temperature Atmospheric Argon Plasma: Diagnostics and Medical Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 163-178.                                    | 0.5 | 3         |
| 59 | Plasmaâ€onâ€Chip : device for nonâ€thermal atmospheric pressure plasma irradiation to single cells.<br>Electronics and Communications in Japan, 2020, 103, 43-48.  | 0.5 | 3         |
| 60 | Measurements of nitrogen atom density in a microwaveâ€excited plasma jet produced under moderate pressures. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1281-1287.             | 1.4 | 3         |
| 61 | Effects of electric charges on serum protein aggregation induced by a low temperature atmospheric pressure plasma. Journal Physics D: Applied Physics, 2021, 54, 215201.                                 | 2.8 | 3         |
| 62 | Dynamics of flow in albumin solution treated by low-temperature atmospheric pressure helium plasma jet. AIP Advances, 2020, 10, 125216.  | 1.3 | 3         |
| 63 | The approach to diamond growth on levitating seed particles. Applied Surface Science, 2007, 254, 177-180.  | 6.1 | 2         |
| 64 | Electric potential developed by single-pulse needle-water discharge. Applied Physics Express, 2018, 11,<br>016201.   | 2.4 | 2         |
| 65 | Albumin aggregation using low-temperature atmospheric pressure helium plasma jet in argon and air<br>atmosphere. Japanese Journal of Applied Physics, 2022, 61, SI1016.                                  | 1.5 | 1         |
| 66 | Potential formation on floating metal plate treated by low-temperature atmospheric pressure plasma<br>jet. Journal of Electrostatics, 2022, 117, 103715.   | 1.9 | 1         |
| 67 | Bactericidal effect in different gas compositions using Surface Micro-Discharge (SMD) plasma. , 2012, ,  |     | 0         |
| 68 | Growth inhibition effect on Trypanosoma brucei gambiense by the oxidative stress supplied from<br>low-temperature plasma at atmospheric pressure. Japanese Journal of Applied Physics, 2021, 60, 020601. | 1.5 | 0         |
| 69 | 215 Flow field analysis of a plasma flow at atmospheric pressure in the vicinity of water surface. The<br>Proceedings of Conference of Tohoku Branch, 2010, 2010.45, 230-231.                            | 0.0 | 0         |
| 70 | 313 Thermal flow analysis of a plasma flow at atmospheric pressure in air and water. The Proceedings of the Symposium on Environmental Engineering, 2011, 2011.21, 206-207.                              | 0.0 | 0         |
| 71 | S052012 Driving mechanism of gas flow by gaseous-liquid plasma. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _S052012-1S052012-2.   | 0.0 | 0         |
| 72 | <i>Plasma-on-Chip</i> : Device for Non-thermal Atmospheric Pressure Plasma Irradiation to<br>Single Cells. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 452-456.                | 0.2 | 0         |

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|----|---|-----|-----------|
| 73 | Transparent Conductive Oxide (TCO) Gated Ingaas Mosfets for Front-Side Illuminated Short-Wave<br>Infrared Detection. ECS Meeting Abstracts, 2022, MA2022-01, 1282-1282. | 0.0 | Ο         |