

Publication list Marius Gabriel Blajan

Granted Patents

- 1) JP6715600B2-Japan (Application granted: 2020-07-01), DE112016000670B4-Germany (Application granted: 2022-11-17), *Spark plug for an internal combustion engine*, Inventor: Akimitsu Sugiura, Masashi Kando, Jan Husarik, Martin Kral, Gabriel Marius Blajan; Current Assignee: PLASMA APPLICATIONS CO., LTD., Hamamatsu-shi, Shizuoka, JP; DENSO CORPORATION, Kariya-shi, Aichi-ken, JP.
- 2) JP7112559B1-Japan (Application granted: 2022-08-03), WO2022224703A1-World (Application: 2022-10-27), *Standing wave excitation type electromagnetic discharge lamp*, Inventor: Kando Masashi, Kral Martin, Husarik Jan, Marius Gabriel Blajan, Okajima Hiroshi, Higo Tatsuji; Current Assignee (Applicants): TOKYO KEIKI INC [JP]; PLASMA APPLICATIONS CO LTD [JP].

(1) Book Chapters

1. K. Shimizu, M. Blajan, "Actuators", edited by C. Volosencu, Chapter 1, "Dielectric Barrier Discharge Microplasma Actuator for Flow Control", pp. 3-23, Intech OpenAccess Publisher, ISBN: 978-1-78923-429-9, (Jul. 2018).
2. Kazuo Shimizu, Jaroslav Kristof and Marius Gabriel Blajan (November 5th 2018). Applications of Dielectric Barrier Discharge Microplasma, Atmospheric Pressure Plasma - from Diagnostics to Applications, Anton Nikiforov and Zhiqiang Chen, IntechOpen, DOI: 10.5772/intechopen.81425. Available from: <https://www.intechopen.com/books/atmospheric-pressure-plasma-from-diagnostics-to-applications/applications-of-dielectric-barrier-discharge-microplasma>.

(2) Journals

1. J. Kristof, R. Yokoyama, A. G. Yahaya, S. A. Rimi, M. Blajan, K. Shimizu, "Absorption of FD-150 into intestinal Cells by Microplasma," *Plasma Medicine*, 12(4):11 – 28 (2023).
2. M. G. Blajan, A. G. Yahaya, J. Kristof, T. Okuyama and K. Shimizu, "Inactivation of Staphylococcus Aureus by Microplasma," in *IEEE Transactions on Industry Applications*, vol. 59, no. 1, pp. 434-440, Jan.-Feb. 2023, doi: 10.1109/TIA.2022.3209619.
3. Y. Mizuno, A. G. Yahaya, J. Kristof, M. G. Blajan, E. Murakami, and K. Shimizu. 2022. "Ozone Catalytic Oxidation for Gaseous Dimethyl Sulfide Removal by Using Vacuum-Ultra-Violet Lamp and Impregnated Activated Carbon" *Energies* 15, no. 9: 3314. <https://doi.org/10.3390/en15093314>.
4. A. Yahaya, T. Okuyama, J. Kristof, M. Blajan, K. Shimizu, "Direct and Indirect bactericidal effect of Cold Atmospheric Pressure Microplasma and Plasma Jet", *Molecules*, 2021, 26(9), 2523, DOI: 10.3390/molecules26092523 (Apr., 2021).
5. A. Yahaya, J. Kristof, M. Blajan, F. Mustafa, K. Shimizu, "Effect of Plasma Discharge on Epidermal Layer Structure in Pig Skin", *Plasma Medicine*, Vol. 11, No. 1, pp. 1-13, DOI: 10.1615/PlasmaMed.2021036925 (Mar., 2021).
6. 清水一男, 野中大輔, クリストフ・ヤロスラヴ, マリウス・ブラジャン, 「静電気力によるマイクロプラズマ電極上に堆積した微粒子除去の研究」, *室内環境学会誌*, Vol. 23, No. 2, pp. 141-150, DOI: 10.7879/siej.23.141, (Nov., 2020).
7. J. Kristof, T. Aoshima, M. Blajan, and K. Shimizu, "Effect of Microplasma Treatment on Stratum Corneum Lipid Molecule", *Jpn. J. App. Phys.*, Vol. 59, No. SHHF06, DOI: 10.35848/1347-4065/ab7ae3, (Mar., 2020).
8. M. Blajan, D. Nonaka, J. Kristof and K. Shimizu, "Study of Induced EHD Flow by Microplasma Vortex Generator", *IEEE Trans. on PS*, Vol. 47, No. 12, pp. 5345-5354, DOI: 10.1109/TPS.2019.2952166 (Dec., 2019).
9. J. Kristof, T. Aoshima, M. Blajan, and K. Shimizu, "Surface Modification of Stratum Corneum for Drug Delivery and Skin Care by Microplasma Discharge Treatment", *Plasma Science and Technology*, Vol. 21, No. 6, 064001, DOI: 10.1088/2058-6272/aafde6 (Jan., 2019).

10. K. Shimizu, Y. Kurokawa and M. Blajan, "Fundamental Study of Hexadecane Removal by Atmospheric Microplasma," in *IEEE Transactions on Industry Applications*, vol. 54, no. 1, pp. 599-604, Jan.-Feb. 2018. doi: 10.1109/TIA.2017.2758338.
11. K. Shimizu, S. Muramatsu, J. Kristof and M. Blajan, "Analysis of Hexadecane Decomposition by Atmospheric Microplasma," in *IEEE Transactions on Industry Applications*, vol. 54, no. 1, pp. 605-610, Jan.-Feb. 2018. doi: 10.1109/TIA.2017.2758341.
12. M. Blajan, A. Ito, J. Kristof, K. Shimizu (2017) Directional Flow Control with Multi-Electrode System Microplasma Actuator. *J Biomed Syst Emerg Technol* 4: 116.
13. K. Shimizu, A. Ito, M. Blajan, J. Kristof, and H. Yoneda, "Basic Study of Fine Particle Transfer Using Electrostatic Force Generated by a Microplasma Actuator Type Electrode", *International Journal of Plasma Environmental Science & Technology*, (I.J.PEST), Vol. 11, No. 1, 2017.
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15. K. Shimizu, N. Konagaya, M. Blajan, T. Onodera, and A. Konno, "Improvement of conversion efficiency of dye-sensitized solar cells by surface modification using microplasma", *International Journal of Plasma Environmental Science & Technology*, (I.J.PEST), Vol. 10, No. 3, 2017.
16. K. Shimizu, Y. Mizuno, M. Blajan, and H. Yoneda, "Characteristics of an Atmospheric Nonthermal Microplasma Actuator", *IEEE Trans. on Ind. Appl.*, Vol. 53, No. 2, (Mar., Apr., 2017).
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18. 清水一男, 伊藤暁彦, マリウス・ガブリエル・ブラジャン, クリストフ・ヤロスラヴ, 米田仁紀, 「静電気力によるマイクロプラズマ電極表面上の微粒子除去の研究」, *静電気学会誌*, Vol. 41, No. 1, pp. 22-26, (Jan., 2017).
19. J. Kristof, A. N. Tran, M. Blajan, and K. Shimizu, "A Study of the Influence of Plasma Particles for Transdermal Drug Delivery", *Advances in Intelligent Systems and Computing*, Vol. 519, pp. 167-173, (Sep., 2016).
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25. K. Shimizu, K. Hayashida, and M. Blajan, "Novel method to improve transdermal drug delivery by atmospheric microplasma irradiation", *Biointerphases*, Vol. 10, No. 2, 029517, (Jun., 2015).
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(3) International Conferences

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69. J. Kristof, T. Aoshima, M. Blajan, K. Shimizu , "Drug absorption by skin treated by microplasma discharg", the 11th Asia-Pacific International Symposium on the Basics and Applicaitons of Plasma Thechnology, (APSPT-11), The Kanazawa Chamber of Commerce & Industry, (Kanazawa, Japan), P2-19, (Dec., 2019).
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