



## IULIANA MOTRESCU

Cetățenie: română Data nașterii: [REDACTED] Gen: Feminin

E-mail: [REDACTED] E-mail: [imotrescu@uaiasi.ro](mailto:imotrescu@uaiasi.ro)

Muncă: Aleea Sadoveanu nr. 3, 700490 Iasi (România)

### EXPERIENȚA PROFESIONALĂ

#### Lector universitar

*Universitatea pentru Științele Vieții* [ 10/2012 – În curs ]

Localitatea: Iași

Țara: România

Activități educaționale: cursuri (fizică, biofizică, fenomene de transfer), lucrări practice, seminarii, cercuri științifice, îndrumare lucrări de licență

Activități de cercetare: bio-aplicații ale plasmelor reci, metode fizice de analiză a materialelor

#### Cercetător specialist

*Institutul de Cercetări pentru Agricultură și Mediu* [ 09/2014 – În curs ]

Localitatea: Iași

Țara: România

Activități de cercetare: caracterizarea materialelor și suprafețelor utilizând microscopia electronică cu baleiaj, spectroscopia dispersivă de raze X, microscopia de forță atomică, spectroscopia Raman, spectroscopia în infraroșu cu transformată Fourier, spectroscopia de fluorescență cu raze X

Organizarea laboratorului de analize fizice

#### Editor asociat

*Journal of Applied Life Sciences and Environment, Universitatea pentru Științele Vieții* [ 10/2022 – În curs ]

Localitatea: Iași

Țara: România

#### Cercetător invitat

*Research Institute of Electronics, Shizuoka University* [ 12/2019 – 01/2020 ]

Localitatea: Hamamatsu

Țara: Japonia

Activități de cercetare: crearea de noi surse de plasmă pentru aplicații în industria alimentară

#### Profesor asociat invitat

*Research Institute of Electronics, Shizuoka University* [ 06/2017 – 01/2018 ]

Localitatea: Hamamatsu

Țara: Japonia

Activități de cercetare: crearea și caracterizarea unor noi surse de plasmă rece pentru industria alimentară și aplicații de bio-imagistică

Organizarea laboratorului și activităților de cercetare, îndrumare studenți masteranzi și doctoranzi

#### Cercetător post-doctoral

*Research Institute of Electronics, Shizuoka University* [ 10/2011 – 03/2014 ]

Localitatea: Hamamatsu

Țara: Japonia

Activități de cercetare: aplicații de bio-imagistică a plasmelor reci

Alte activități: managementul laboratorului, îndrumare studenți, organizare seminarii și alte întâlniri, elaborare de rapoarte de cercetare.

### **Asistent universitar**

*Universitatea de Științe Agricole și Medicină Veterinară* [ 02/2003 – 09/2012 ]

Localitatea: Iași

Țara: România

Activități educaționale: lucrări de laborator și seminarii cu studenții, coordonare cercuri științifice.

Activități de cercetare: aplicații ale plasmelor reciș biofizică

## **EDUCAȚIE ȘI FORMARE PROFESIONALĂ**

### **Doctor în Științe Exacte - Fizica Plasmei**

*Universitatea Alexandru Ioan Cuza* [ 10/2009 – 09/2011 ]

Adresă: Bld. Carol I nr. 11, 700506 Iași (România)

Domeniul (domeniile) de studiu: Fizica Plasmei

Lucrarea de diplomă: Study of the atomic oxygen in low temperature plasmas produced in reactive gases: Applications

### **PhD in Nanovision Science**

*Universitatea din Shizuoka*

Adresă: 3-5-1 Johoku Nakaku, 432-8011 Hamamatsu (Japonia)

Domeniul (domeniile) de studiu: Fizica plasmei

Lucrarea de diplomă: Functional modification of small protein molecules by low-temperature plasma process

### **Master în fizica plasmei**

*Universitatea Alexandru Ioan Cuza* [ 10/2002 – 06/2004 ]

Adresă: Bld. Carol I, nr. 11, 700506 Iași (România)

Domeniul (domeniile) de studiu: Fizica Plasmei

Lucrarea de diplomă: Diagnoza plasmei folosind spectroscopia de absorbție cu diode laser

### **Licențiat în Matematică**

*Universitatea Alexandru Ioan Cuza* [ 10/2005 – 06/2009 ]

Adresă: bld. Carol I, nr. 11, 700506 Iași (România)

### **Licențiat în Fizică Medicală**

*Universitatea Alexandru Ioan Cuza*

Adresă: Bld. Carol I, nr. 11, 700506 Iași (România)

### **Manager de proiect (COR: 242101)**

*SC Euroasia SRL* [ 07/11/2020 – 28/11/2020 ]

Adresă: Iași (România)

### **Formator (COR: 242401)**

*SC Euroasia SRL* [ 23/02/2019 – 15/03/2019 ]

Adresă: Iași (România)

## ALTE ACTIVITĂȚI DE PERFECTIONARE

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**Curs intensiv - "Alternative techniques for particles and proteins analysis" - Marvel Panalytical, Iași, România**

[ 22/10/2018 ]

**Specializare - "Management of a Horizon 2020 project", Universitatea Alexandru Ioan Cuza, Iași**

[ 12/10/2018 - 13/10/2018 ]

**Specializare - "Writing a Horizon 2020 project proposal", Universitatea Alexandru Ioan Cuza, Iași**

[ 10/10/2018 - 11/10/2018 ]

**Specializare în microscopie electronică - FEI, Eindhoven, Olanda**

[ 09/2015 ]

**Curs intensiv Writing in science - Universitatea Stanford, SUA**

[ 09/2013 - 11/2013 ]

**Program intensiv "Biologie et Pathologie Moleculaire. Biotechnologies" - Academia Română, Iași**

[ 05/07/2004 - 17/07/2004 ]

**Școala de vară "Plasmas Non Thermiques et Applications" - Iași, România**

[ 25/08/2003 - 29/08/2003 ]

**Program intensiv "Wave Matter Interaction. Microwave Measurement Methods and Modelling" - ENSEIHT, Toulouse, Franța**

[ 10/03/2002 - 30/03/2002 ]

## COMPETENȚE LINGVISTICE

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Limbă(i) maternă(e): **română**

Altă limbă (Alte limbi):

**engleză**

COMPREHENSIV ORALĂ C2 CITIT C2 SCRIS C2

EXPRIMARE SCRISĂ C2 CONVERSAȚIE C2

**franceză**

COMPREHENSIV ORALĂ C2 CITIT C1 SCRIS B2

EXPRIMARE SCRISĂ C1 CONVERSAȚIE B2

**japoneză**

COMPREHENSIV ORALĂ A2 CITIT A2 SCRIS A1

EXPRIMARE SCRISĂ A1 CONVERSAȚIE A1

## COMPETENȚE DIGITALE

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Microsoft Office (Microsoft) / ORIGIN LAB / ChemLab / Social media/social Networks

## PROIECTE

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**2021-1-TR01-KA220-VET-000032974 CLIAVE**

[ 01/02/2022 - 01/08/2024 ]

-manager de proiect - 17422 euro

**"AGRIECOTEC" POS CCE - AXA 2, O 2.2., ID proiect: 932, Nr. SIMS 13976 14.890.875 RON**

[ 2018 - 2023 ]

-cercetător specialist

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**2SOFT/1.2/47/19.11.2020**

[ 2020 – 2021 ]

-cercetător specialist

**04-4-1121-2017/2020**

[ 2017 – 2020 ]

-cercetător specialist

**004-4-1121-2015/2020 – 34**

[ 2019 – 2019 ]

-cercetător specialist

**"Development and application of innovative plasma process technology to realize highly functional and multifunctional material surfaces", KAKENHI Japonia 170.400 eur**

[ 2017 – 2018 ]

**"Establishment of advanced bio-plasma fusion science for developing high-selectivity virus detection system". Grant in aid for Scientific Research by MEXT, Japonia, KAKENHI 25246029 460.200 eur**

[ 2013 – 2017 ]

-cercetător specialist

**"Development of plasma processing technology for controlling biological activity of fine particles and its medical applications", Grant in aid for Scientific Research by MEXT, Japonia, KAKENHI 21110010 644.800 eur**

[ 2009 – 2014 ]

-cercetător specialist

**"Immobilization of biomaterials using chemical modification by plasma treatment and its application for biosensor" Grant in aid for Scientific Research by MEXT, Japonia, KAKENHI 21740395 45.500 eur**

[ 2009 – 2011 ]

-cercetător specialist

**"Investigations on bio-molecules control using low temperature plasma", Shizuoka University - internal grant for PhD students**

[ 2009 – 2010 ]

-project manager

**"Development of low temperature plasma technology process of biopolymeric materials", Grant in aid for Scientific Research by MEXT KAKENHI 20340161**

[ 2008 – 2010 ]

-cercetător specialist

**2S/31.08.2009 MECTS**

[ 2009 – 2011 ]

-cercetător specialist

**"The development of control technology and medical applications of bio-active micro particle surface by a plasma process", Grant in aid for Scientific Research by MEXT KAKENHI**

[ 2009 – 2011 ]

-cercetător specialist



**"Development of advanced protein synthesis and degradation technology using plasma reaction field", Grant in aid for Scientific Research by MEXT KAKENHI 21654085**

[ 2009 – 2010 ]

-cercetător specialist

**601/2004-2006 CNCSIS**

[ 2004 – 2006 ]

-cercetător

**DISTINCȚII ONORIFICE ȘI PREMII**

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**First prize for Senior Scientist**

14th International Conference of Food Physicists [ 10/2020 ]

**Young Researcher's Prize for Plasma Applications**

29th Annual Meeting of Plasma Science and Nuclear Fusion Research Society, Japan [ 11/2012 ]

**First Prize for Advanced Plasma Applications**

11th APCPST & 25th SPSM, Kyoto, Japan [ 10/2012 ]

**Young Researcher Award**

Inter-Academia 2009, Poland [ 09/2009 ]

**First Prize in FTEM Conference**

Faculty of Physics, Alexandru Ioan Cuza University of Iasi [ 05/2003 ]

**APTITUDINI TEHNICE**

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**Crearea, caracterizarea și utilizarea diferitelor surse de plasmă**

-surse de plasmă: jet de plasmă, DBD în diferite configurații, plasmă de microunde, plasmă de radiofrecvență, descărcare în arc

-diagnoza plasmei: spectrometrie de masă, spectroscopie de emisie, spectroscopie de absorbție cu diode laser, diagnoză electrică

-aplicații ale plasmei: modificarea unor biomolecule, inactivarea microorganismelor, plasma în agricultură, aplicații ale plasmei în industria alimentară, procesarea în plasmă a unor nanomateriale și diferite suprafețe, etc.

**Metode de caracterizare a materialelor**

-imagistică: microscopie electronică de baleiaj, microscopie de fluorescență, microscopie de forță atomică

-metode spectrometrice: spectroscopie fotoelectronică de raze X, spectroscopia de fluorescență cu raze X, spectroscopie Raman, spectroscopie în infraroșu cu transformată Fourier, spectroscopie de dispersie a energiei, spectrofotometrie

-alte metode: cromatografie de înaltă performanță în lichid

**Microbiologie**

-pregătirea și analiza diferitelor culturi de microorganisme

-vizualizarea microorganismelor cu ajutorul microscopiei electronice cu baleiaj

**COMPETENȚE DE COMUNICARE ȘI INTERPERSONALE**


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**Competențe interpersonale**

-bună colaborare în diferite echipe, cu atitudine motivațională pentru ceil din jur; comunicare clară; leadership; gândire flexibilă; respect; entuziasm;

**Abilități de comunicare**

-comunicare clară, eficientă și antrenată



-foarte bune abilități de comunicare în public (peste 100 de prezentări în cadrul unor conferințe și sute de cursuri)

-foarte bune abilități de comunicare în scris (redactarea și corectarea mai multor lucrări cu conținut științific pentru colegi și membrii grupului de cercetare, crearea de conținut online)

-social media (administrarea unei pagini de facebook educațională pentru studenți; administrarea paginilor de facebook și profilelor google ale altor entități)

## ALTE ACTIVITĂȚI

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**-editor special issue "Advanced Structure Thin Film Materials: Design, Growth, and Application" în Coatings**

**-76 recenzii pentru diferite jurnale**

Journal of Physics D: Applied Physics (22), Materials (15), Coatings (7), Plasma Sources Science and Technology (5), Agronomy (4), RSC Advances (4), Water (3), Plasma Physics and Controlled Fusion (2), Plasma Processes and Polymers (2), Sustainability (2), Applied Sciences, International Journal of Molecular Sciences, Journal of Analytical Atomic Spectrometry, Plasma, Molecules

## RECOMANDĂRI

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### coordonator doctorat și disertație

Nume: Prof. dr. emeritus Gheorghe POPA

E-mail: [ghpopa@uaic.ro](mailto:ghpopa@uaic.ro)

Facultatea de Fizică, Universitatea Alexandru Ioan Cuza, Iași

### colaborator

Nume: Prof. dr. emeritus Dorina Emilia CREANGĂ

E-mail: [mdor@uaic.ro](mailto:mdor@uaic.ro)

Facultatea de Fizică, Universitatea Alexandru Ioan Cuza, Iași

### coordonator doctorat, colaborator

Nume: Prof. dr. Masaaki NAGATSU

E-mail: [nagatsu.masaaki@shizuoka.ac.jp](mailto:nagatsu.masaaki@shizuoka.ac.jp)

Research Institute of Electronics, Shizuoka University, Japan

### colaborator

Nume: Conf. dr. Daniel MORARU

E-mail: [moraru.daniel@shizuoka.ac.jp](mailto:moraru.daniel@shizuoka.ac.jp)

Research Institute of Electronics, Shizuoka University, Japan

### colaborator

Nume: Conf. dr. Akihisa OGINO

E-mail: [ogino.akhisa@shizuoka.ac.jp](mailto:ogino.akhisa@shizuoka.ac.jp)

Graduate School of Science and Technology, Shizuoka University, Japan

## PUBLICAȚII

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### **Evaluation of the Adsorptive Performances of Rapeseed Waste in the Removal of Toxic Metal Ions in Aqueous Media**

[2022]

Water 14 (24), DOI: 10.3390/w14244108

T Arsenie, IG Cara, MC Popescu, I Motrescu, L Bulgariu

-zona galbenă

### **Habitat preference of the endangered species *Crambe tataria* (Brassicaceae) from Romania**

[2022]

Tuexenia 42, 275-296

SD Chirila, IG Cara, I Motrescu

-zona gri

### **Testicular injuries due to subacute combined exposure to cadmium and lead in rats**

[2022]

Farmacia 70 (4), 690-703

C Solcan, BG Slencu, LC Trinca, I Motrescu, A Petrovici, S Gheorghe

-zona gri

### **Evaluation of Heavy Metal Contamination in *Mytilus* sp. Shells**

[2022]

Research and Education: Traditions and Innovations, 41-50. DOI: 10.1007/978-981-19-0379-3\_5

I Motrescu, MA Ciolan, AE Calistru, G Jitareanu, LD Miron

-capitol de carte indexat Springer

### **Saharan Dust Storm Aerosol Characterization of the Event (9 to 13 May 2020) over European AERONET Sites**

Atmosphere 13(3) 493, DOI: 10.3390/atmos13030493

Silvia Garofalide, Cristina Postolachi, Alexandru Cocean, Georgiana Cocean, Iuliana Motrescu, Iuliana Cocean, Bogdanel Silvestru Munteanu, Marius Prelipceanu, Silviu Gurlui, Liviu Leontie

-zona galbenă

### **The Impact of Salinity Stress on Antioxidant Response and Bioactive Compounds of *Nepeta cataria* L.**

[2022]

Agronomy 12(3), 562, DOI: 10.3390/agronomy12030562

Constantin Lungoci, Iuliana Motrescu, Feodor Filipov, Carmenica Doina Jitareanu, Gabriel-Ciprian Teliban, Carmen Simona Ghitau, Ioan Puiu, Teodor Robu

-zona roșie

### **Antioxidant molecule useful in the stabilization of nanoparticles in water suspension**

[2022]

Soft Materials, 20(1), 576-590, DOI: 10.1080/1539445X.2022.2028832

Larisa Popescu-Lipan, Anda Les, Marian Grigoras, Gabriel Ababei, Iuliana Motrescu, Georgiana Bulai, Florin Brinza, Dorina Creanga, Maria Balasoiu

-zona gri

### **Pulsed Laser Ablation: A Facile and Low-Temperature Fabrication of Highly Oriented n-Type Zinc Oxide Thin Films**

[2022]

Applied Sciences - Basel 12(2), 917, DOI: 10.3390/app12020917

Mihai Alexandru Ciolan, Iuliana Motrescu

-zona galbenă

19

7 / 20

**The Antibacterial Synthetic Flavonoid BrCl-Flav Exhibits Important Anti-Candida Activity by Damaging Cell Membrane Integrity**

[2021]

Pharmaceuticals 14(11), 1130, DOI: 10.3390/ph14111130

Cornelia Babii, Mihaela Savu, Iuliana Motrescu, Lucian Mihail Birsa, Laura Gabriela Sarbu, Marius Stefan  
-zona roșie

**Chitosan-Based Delivery Systems Loaded with Glibenclamide and Lipoic Acid: Formulation, Characterization, and Kinetic Release Studies**

[2020]

Appl. Sci. 2020, 10(21), 7532; DOI: 10.3390/app10217532

Luminita-Georgeta Confederat, Iuliana Motrescu, Mihaela Iustina Condurache, Sandra Constantin, Alexandra Bujor, Cristina Gabriela Tuchilus, Lenuta Profire

-zona galbenă

**Prenylated phenolics as promising candidates for combination antibacterial therapy: morusin and kuwanon G**

[2020]

Saudi Pharmaceutical Journal 28(10), 1172-1181, DOI: 10.1016/j.jsps.2020.08.006

Petruta Aelenei, Cristina Mihaela Rimbu, Cristina Elena Horhoge, Andrei Lobiuc, Anca-Narcisa Neagu, Simona Isabela Dunca, Iuliana Motrescu, Gabriel Dimitriu, Ana Clara Aprotosoia, Anca Miron

-zona roșie

**Agri-wastes as a low-cost adsorbent for nicosulfuron herbicide**

Environmental Engineering and Management Journal 19(2), 335-343

Irina Gabriela Cara, Denis Topa, Anca Elena Calistru, Iuliana Motrescu, Laura Bulgariu, Gerard Jitareanu

-zona gri

**Utilization of Atmospheric Plasmas for Agricultural Applications**

[2020]

Engineering for Sustainable Future, 101, 278-287 DOI: 10.1007/978-3-030-36841-8\_27

Iuliana Motrescu, Manuela Filip, Florin Petrian Herciu, Gerard Jitareanu

-capitol indexat Springer

**Monitoring the environmental quality of marine waters through the analysis of biomineralization in bivalve shells**

[2020]

Engineering for Sustainable Future, 101, 269-277 DOI: 10.1007/978-3-030-36841-8\_26

Iuliana Motrescu, Anca-Elena Calistru, Gerard Jitareanu, Liviu Dan Miron

-capitol indexat Springer

**Osseointegration evaluation of ZrTi alloys with hydroxyapatite-zirconia-silver layer in pig's tibiae**

Applied Surface Science 487, 127-137, DOI: 10.1016/j.apsusc.2019.05.003

Lucia Carmen Trincă, Daniel Mareci, Ricardo Manuel Souto, Antonio Diego Lozano-Gorrín, Javier Izquierdo, Liviu Burtan, Iuliana Motrescu, Vasile Vulpe, Geta Pavel, Stefan Strungaru, Iulian Stoleriu, Aurel Lulu Strat, Carmen Solcan

-zona roșie



**Use of pre-ionization electrodes to produce large-volume, densely distributed filamentary dielectric barrier discharges for materials surface processing**

[2018]

Plasma Sources Science and Technology 27(11), 115005 DOI: 10.1088/1361-6595/aae8fd

Iuliana Motrescu, Mihai Alexandru Ciolan, Kazuya Sugiyama, Naohisa Kawamura, Masaaki Nagatsu

-zona roşie

**Tailoring the Surface Functionalities of Radio Frequency Magnetron-Sputtered ZnO Thin Films by Ar/NH<sub>3</sub> Gas Mixture Surface-Wave Plasmas**

[2018]

Langmuir 34 (38), 11253-11263, DOI: 10.1021/acs.langmuir.8b01183

Mihai Alexandru Ciolan, Iuliana Motrescu, Kuniaki Sugiura, Dumitru Luca, Masaaki Nagatsu

-zona roşie

**Biopolymers with Medical Applications - Optimized method for obtaining chitosan-based delivery systems**

[2018]

REVISTA DE CHIMIE 69.7 (2018): 1756-1759.

Confederat, L., Motrescu, I., Constantin, S., Lupascu, F. and Profire, L.

-zona gri

**Surface modification of fluorine contained resins using an elongated parallel plate electrode type dielectric barrier discharge device**

[2018]

Journal of Photopolymer Science and Technology 31(3), 379-383, DOI: 10.2494/photopolymer.31.379

Masaaki Nagatsu, Kazuya Sugiyama, Iuliana Motrescu, Mihai Alexandru Ciolan, Akihisa Ogino, Naohisa Kawamura

-zona gri

**Nanocapillary atmospheric pressure plasma jet: a tool for ultrafine maskless surface modification at atmospheric pressure**

[2016]

ACS Appl. Mater. Interfaces 2016, 8, 19, 12528-12533, DOI: 10.1021/acsami.6b02483

Iuliana Motrescu, Masaaki Nagatsu

-zona roşie

**Mass spectrometric study of ammonia/methane surface-wave plasma applied to low-temperature growth of carbon nanomaterials**

[2015]

J. Phys. D: Appl. Phys. 48 045201, DOI: 10.1088/0022-3727/48/4/045201

Raman Bekarevich, Iuliana Motrescu, Aliaksandr Rahachou, Masaaki Nagatsu

-zona galbenă

**BIOEFFECTS OF ATMOSPHERIC PLASMA DISCHARGE ON GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA**

[2015]

Journal of Science and Arts 3, 249-256

Iuliana Motrescu, Antoniea Poiata, Andrei Vasile Nastuta, Dorina Creanga, Gheorghe Popa

-indexat ISI

 21

### **Low temperature plasma functionalization of ZnO with amine groups for bioapplications**

[2014]

Dig. J. Nanomater. Biosnictures DJNB 9(2), 483-491

MA Ciolan, I Motrescu, D Luca, M Nagatsu

-zona gri

### **Mass spectrometric study of Ar/NH<sub>3</sub> surface wave plasma utilized for surface functionalization of ZnO nanoparticles**

[2014]

Jpn. J. Appl. Phys. 53, 010207, DOI 10.7567/JJAP.53.010207

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu

-zona gri

### **Micro-patterning of functional groups onto polymer surface using capillary atmospheric pressure plasma jet**

[2012]

Journal of Photopolymer Science and Technology 25(4) 529-534

Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu

-zona gri

### **Sterilization Method for Medical Container Using Microwave-Excited Volume-Wave Plasma**

[2012]

Plasma processes and polymers 9(6), 590-596, DOI 10.1002/ppap.201100111

Masaaki Nagatsu, Ying Zhao, Iuliana Motrescu, Ryota Mizutani, Yuya Fujioka, Akihisa Ogino

-zona galbenă

### **Bacteria response to non-thermal physical factors: A study on Staphylococcus aureus**

[2012]

African Journal of Biotechnology 11(18), 4234-4240

Ramona Focea, Antoniea Poiata, Iuliana Motrescu, Andrei Nastuta, Dorina Creanga, Gheorghe Popa

-indexat ISI

### **Effects of Nitrogen and Oxygen Radicals on Low-Temperature Bio-Molecule Processing**

[2011]

Jpn. J. Appl. Phys. 50 08JF07 DOI 10.1143/JJAP.50.08JF07

Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Shinya Kodani, Hirokazu Kawagishi, Gheorghe Popa, Masaaki Nagatsu

-zona gri

### **Mechanism of peptide modification by low-temperature microwave plasma**

Soft Matter 7(10), 4845-4850, DOI: 10.1039/C0SM01412E

Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Shinya Kodani, Hirokazu Kawagishi, Gheorghe Popa, Masaaki Nagatsu

-zona roșie

### **Modification of peptide by surface-wave plasma processing**

[2010]

Thin Solid Films 518(13),3585-3589, DOI: 10.1016/j.tsf.2009.11.029



Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Shinya Kodani, Hirokazu Kawagishi, Gheorghe Popa, Masaaki Nagatsu

-zona gri

### **Microorganism response to atmospheric pressure helium plasma DBD treatment**

Journal of Electrostatics 68(2), 128-131, DOI: 10.1016/j.elstat.2009.11.008

Antonia Popa, Iuliana Motrescu, A Nastuta, DE Creanga, G Popa

-zona gri

## **PREZENTĂRI ORALE**

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### **Pathogen Bacteria Sterilization in Low Temperature Helium Plasma**

[ 15/09/2008 – 18/09/2008 ]

Iuliana Motrescu, A. Popa, A. Nastuta, D. Creanga, G. Popa, 7 th International Conference on Global Research and Education InterAcademia, Pecs, Hungary

### **Analysis of Molecular Structures of Amino Acids and Peptides Irradiated by Atmospheric Pressure Plasma**

[ 02/02/2009 – 04/02/2009 ]

Iuliana Motrescu, Shuhei Kojima, Akihisa Ogino, Masaaki Nagatsu, PSS-2009/SPP-26, Nagoya, Japonia

### **Modification of Peptide by Surface Wave Plasma Processing**

[ 15/06/2009 – 16/06/2009 ]

Iuliana Motrescu, Takuya Hara, Akihisa Ogino, and Masaaki Nagatsu, The 22nd Symposium on Plasma Science for Materials (SPSM-22), Univ. of Tokyo, Sanjo Conference Hall p.16, Japonia

### **Investigation of the Mechanisms of Peptide Modification by Plasma Irradiation**

[ 08/09/2009 – 11/09/2009 ]

Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Hirokazu Kawagishi, Shinya Kodani, Masaaki Nagatsu, The 70th Autumn Meeting, 2009 of The Japan Society of Applied Physics, Univ. of Toyama 8p-TG-10, p.208, Japonia

### **Effect of Biasing on Peptide Modification Using Microwave Plasma**

[ 10/09/2009 – 11/09/2009 ]

Takuya Hara, Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, The 2009 Tokai-Section Joint Conference on Electrical and Related Engineering, Aichi Institute of Technology (2009.9.10-11) O-461, Japonia

### **Study of Interaction between Microwave Plasma and Biopolymer Using Mass Spectroscopy**

[ 01/02/2010 – 03/02/2010 ]

Takuya Hara, Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, The 27th Symposium on Plasma Processing (SPP-27), Yokohama Memorial Hall of Port Opening P2-45, pp. 313-314, Japonia

### **Effects of VUV/UV in Plasma-Biopolymer Interaction in Different Gas Circumstances**

[ 01/02/2010 – 03/02/2010 ]

Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, The 27th Symposium on Plasma Processing (SPP-27), Yokohama Memorial Hall of Port Opening P2-47, pp. 317-318, Japonia

### **Mass spectroscopic and Optical Emission Spectroscopic Study of Plasma-Bio-molecules Interaction under Different Gas Circumstances**

[ 17/03/2010 – 20/03/2010 ]

Iuliana Motrescu, Tsukasaki Akira, Ogino Akihisa, Nagatsu Masaaki, The 57th Spring Meeting, 2010; The Japan Society of Applied Physics, Tokai Univ. 19a-ZG-15, Japonia

## **Role of Radicals in Plasma-Biomolecules Interaction in Nitrogen and Oxygen Plasmas**

[ 14/09/2010 – 17/09/2010 ]

Iuliana Motrescu, Takuya Hara, Akihisa Ogino, Masaaki Nagatsu, The 71st Autumn Meeting, 2010; The Japan Society of Applied Physics, Nagasaki Univ. 16a-ZH-9

## **Low-temperature Plasma Processing for Medical Application**

[ 01/07/2010 – 04/07/2010 ]

M. Nagatsu, I. Motrescu, Y. Zhao, T. E. Saraswati and A. Ogino, 15th Int. Conf. on Plasma Physics and Application (CPPA2010), Iasi, Romania.

## **Nitrogen Species Interactions with Aminoacids in Low Temperature Surface Wave Plasma**

[ 06/03/2011 – 09/03/2011 ]

Iuliana Motrescu, Akihisa Ogino, and Masaaki Nagatsu, 3rd International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials, ISPlasma2011, Nagoya Institute of Technology, Nagoya, Japonia

## **Biochemical assessment of Amino Acid Molecules Processed by Nitrogen Low-Temperature Plasma**

[ 26/09/2011 – 29/09/2011 ]

Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Shinya Kodani, Hirokazu Kawagishi, Gheorghe Popa, and Masaaki Nagatsu, 10th International Conference on Global Research and Education (Inter-Academia 2011), 26-29 septembrie, Sucevita, România

## **Micro Patterning of Functional Group Modification on Polymer Surface by Atmospheric Pressure Micro-capillary Plasma Jet**

[ 08/11/2011 – 11/11/2011 ]

Iuliana Motrescu, Michiyoshi Naito, Akihisa Ogino, Masaaki Nagatsu, 15th International Conference on Thin Films (ICTF-15), Kyoto Terrsa, Japan O-S8-13

## **Low-temperature sterilization using microwave plasmas**

[ 10/11/2011 – 11/11/2011 ]

Masaaki Nagatsu, Ying Zhao, Akira Tsukasaki, Iuliana Motrescu, and Akihisa Ogino, 33rd International Symposium on Dry Process (DPS 2011), Kyoto Garden Palace.

## **Nitrogen Radicals in Aminoacid Processing in Different Plasma Circumstances**

[ 24/11/2011 ]

Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, Plasma Conference 2011, November 24, Ishikawa, Japonia

## **Micro Patterning of Functional Groups on Polymer Surface by Atmospheric Pressure Micro-Capillary Plasma Jet**

[ 01/2012 ]

Iuliana Motrescu, Michiyoshi Naito, Akihisa Ogino, Futoshi Iwata, Masaaki Nagatsu, 2012 International Workshop on Advanced Nanovision Science, Research Institute of Electronics, Shizuoka, Japonia

## **Functional Groups Patterning on Polymers for Bioimaging Applications Using Capillary Plasma Jet**

[ 15/03/2012 – 18/03/2012 ]

Iuliana Motrescu, Michiyoshi Naito, Akihisa Ogino, Futoshi Iwata, and Masaaki Nagatsu, The 58<sup>th</sup> Spring Meeting of the Japan Society of Applied Physics, Waseda University, Tokyo, 18a-B8-2

## **Bio-molecules plasma processing for bioimaging applications**

[ 15/03/2012 – 18/03/2012 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Akihisa Ogino, and Masaaki Nagatsu, The 58<sup>th</sup> Spring Meeting of the Japan Society of Applied Physics, Waseda University, Tokyo, 16p-B8-1

### **Plasma Surface Modification of ZnO Nanoparticles for Bio-Imaging Applications**

[ 15/03/2012 – 18/03/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Akihisa Ogino, Dumitru Luca, Masaaki Nagatsu, The 58<sup>th</sup> Spring Meeting of the Japan Society of Applied Physics, Waseda University, Tokyo, 17p-B8-12

### **Low-Temperature Microwave Plasma Processing of Micro- and Nano-Structured Materials for Bio-Medical Applications**

[ 09/04/2012 – 13/04/2012 ]

Masaaki Nagatsu, Raman V. Bekarevich, Alexei Balmakov, Iuliana Motrescu, Akihisa Ogino, Akiko Murakawa, Makoto Ogata and Enoch Y. Park 2012 MRS Spring Meeting, San Fransisco, USA

### **Micro-Patterning of Amine Functionalities on Polymeric Surfaces using a Micro-capillary Atmospheric Pressure Plasma Jet**

[ 24/06/2012 – 27/06/2012 ]

Iuliana Motrescu and Masaaki Nagatsu, The 29<sup>th</sup> International Conference of Photopolymer Science and Technology, Chiba Univeristy, Chiba, Japonia, B2-07

### **Low Temperature Plasma Processing of ZnO Nanostructures Produced by Pulsed Laser Ablation for Bio-Applications**

[ 27/08/2012 – 30/08/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, 11<sup>th</sup> Conference on Global Research and Education in Engineers for Better Life, Inter-Academia, Budapest, Hungary.

### **Atmospheric Pressure Plasma Mask-less Functional Micro-Patterning of Polymeric Surfaces for Bioimaging**

[ 11/09/2012 – 14/09/2012 ]

Iuliana Motrescu, Masaaki Nagatsu, The 59<sup>th</sup> JSAP Autumn Meeting, Ehime University and Matsuyama University, Matsuyama, Japan.

### **Amine Groups Functionalization of ZnO Produced by Pulsed Laser Ablation**

[ 11/09/2012 – 14/09/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, The 59<sup>th</sup> JSAP Autumn Meeting, Ehime University and Matsuyama University, Matsuyama, Japan.

### **Functional Groups Patterning on Polymeric Surfaces using Nano-Capillary Atmospheric Pressure Plasma Jet**

[ 23/09/2012 – 28/09/2012 ]

Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, IUMRS – ICEM 2012 – International Conference on Electronic Materials, Yokohama, Japan.

### **Functionalization of Zinc Oxide Nanoparticles Obtained by Pulsed Laser Ablation Technique**

[ 23/09/2012 – 28/09/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, IUMRS – ICEM 2012 – International Conference on Electronic Materials, Yokohama, Japan

### **Amine-Functionalized Micro-Patterning on Polymeric Surfaces by Ultrafine Atmospheric Pressure Plasma Jet for Bio-Applications**

[ 02/10/2012 – 05/10/2012 ]

Iuliana Motrescu, Masaaki Nagatsu, The 11<sup>th</sup> Asia-Pacific Conference on Plasma Science and Technology and 25<sup>th</sup> Symposium on Plasma Science for Materials, Kyoto, Japan.

### **Ammonia excited surface wave plasma processing of zinc oxide nanomaterials for amino group functionalisation**

[ 02/10/2012 – 05/10/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, The 11<sup>th</sup> Asia-Pacific Conference on Plasma Science and Technology and 25<sup>th</sup> Symposium on Plasma Science for Materials, Kyoto, Japan.

### **Plasma Surface Functionalization of ZnO Nanoparticles for Bio-Imaging Applications**

[ 27/11/2012 – 28/11/2012 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Dumitru Luca, Masaaki Nagatsu, The 14<sup>th</sup> Takayanagi Kenjiro Memorial Symposium, Shizuoka University, Hamamatsu, Japan.

### **Into the Insights of Polymer Functionalization by Ultrafine Atmospheric Pressure Plasma Jet**

[ 28/01/2013 – 01/02/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, The 5<sup>th</sup> International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials, ISPlasma 2013, Nagoya University, Japan.

### **The Role of Plasma Processing of ZnO for Amino Groups Functionalization**

[ 28/01/2013 – 01/02/2013 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, The 5<sup>th</sup> International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials, ISPlasma 2013, Nagoya University, Japan.

### **Mass Spectrometry Study of Cysteine Modification by Surface Wave Nitrogen Plasma**

[ 21/01/2013 – 23/01/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, 30<sup>th</sup> Symposium on Plasma Processing, Hamamatsu, Japan.

### **Effect of Ammonia Plasma Treatment on Photoluminescent and Crystalline Property of ZnO**

[ 21/01/2013 – 23/01/2013 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, 30<sup>th</sup> Symposium on Plasma Processing, Hamamatsu, Japan

### **Preparation of Ultrafine Functional Patterns on Polymeric Surfaces for Bioimaging Applications**

[ 23/06/2013 – 25/06/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, 16<sup>th</sup> International Conference on Plasma Physics and Applications, Magurele, Romania

### **Study of the Mechanism of Nitrogen Plasma Assisted Disulfide Link Formation Between Cysteine Molecules**

[ 09/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, 26<sup>th</sup> Plasma Material Science Symposium (SPSM - 26), Kyushu University, Japan

### **Ultrafine Patterning of Different Functional Groups on Polymeric Surfaces for Bio - Medical Applications**

[ 09/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, JSAP - MRS Joint Symposia, Doshisha University, Kyotanabe Campus, Japan

**Influence of Ar/NH<sub>3</sub> excited surface wave plasma processing on the photoluminescent properties of ZnO nanoparticles**

[ 08/2013 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, 12th International Conference on Global Research and Education, Inter - Academia, Sofia, Bulgaria

**Optical Detection of sugar chains Connected to plasma zinc oxide Aminated Nanomaterials**

[ 12/2013 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, Plasma Science and Nuclear Fusion Research 30th Annual Meeting, Tokyo Institute of Technology Ookayama, Japan

**Magnetite nanoparticle surface modification for bacteria sensing**

[ 12/2013 ]

D.E. Creanga, A. Poiata, A. Vlahovici, Iuliana Motrescu, 23rd Japan MRS Annual Conference, Yokohama, Japan

**Spectrophotometric Study for Quantifying the amino groups Bonded to the zinc oxide Nanoparticles by plasma processing**

[ 12/2013 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, 23rd Japan MRS Annual Conference, Yokohama, Japan

**Quantification of amine groups introduced on the surface of zinc oxide nanoparticles by Ar/NH<sub>3</sub> plasma processing**

[ 02/2014 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, 8th International Conference on Reactive Plasmas/31st Symposium on Plasma Processing, Fukuoka Convention Center, Fukuoka, Japan

**The role of oxygen introduced in the He gas flow of ultrafine capillary plasma jet for hydroxyl groups patterning**

[ 02/03/2014 - 06/03/2014 ]

Iuliana Motrescu, M. Nagatsu, SPlasma2014/IC - PLANTS2014, Meijo University, Nagoya, Japan

**Molecule immobilization on amine enriched zinc oxide by plasma processing**

[ 03/2014 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, SPlasma2014/IC - PLANTS2014, Meijo University, Nagoya, Japan

**Evaluation of Amine Functionalities bound on the ZnO surface by plasma processing for Biomolecule Detection**

[ 03/2014 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, 61th Japan Society of Applied Physics Spring Meeting in 2014, Aoyamagakuindai, Japan

**Novel approach for zinc oxide nanomaterials functionalization based on dry plasma processing**

[ 25/05/2014 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, 2014 IEEE 41st International Conference on Plasma Sciences (ICOPS) held with 2014 IEEE International Conference on High-Power Particle Beams (BEAMS)

**Ultrafine patterning of functional groups on polymeric surfaces using nano - capillary atmospheric pressure plasma jet**

[ 09/2014 ]

Iuliana Motrescu, M. Nagatsu, 10th International Conference on Physics of Advanced Materials, Iasi, Romania

### **Plasma - induced functionalization of the surface of sputtered ZnO films**

[ 09/2014 ]

M.A. Ciolan, I. Motrescu, D. Luca, M. Nagatsu, 10th International Conference on Physics of Advanced Materials, Iasi, Romania

### **Bioimmobilization of ZnO nanoparticles functionalized by surface - wave plasma processing**

[ 09/2014 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, 10th International Conference on Physics of Advanced Material

### **Biofunctionalization of ZnO thin films for bioimaging applications**

[ 10/2014 ]

Iuliana Motrescu, M.A. Ciolan, D. Luca, International Scientific Congress "Life Sciences, a Challenge for the future", Iasi, Romania

### **New approach on the development of bioimaging application by employing plasma functionalized zinc oxide**

[ 09/2014 ]

M.A. Ciolan, Iuliana Motrescu, D. Luca, M. Nagatsu, InterAcademia - iA2014, Riga, Latvia

### **Plasma surface modifications of nano-structured materials and their applications to virus detection system**

[ 07/2015 ]

M Nagatsu, A Sakudo, A Viswan, T Abuzairi, H Chou, M Okada, E Yang, I Motrescu, MA Ciolan, RW Purnamaningsih, NR Poespawati, D Luca, 32nd ICPIG, July 26 - 31, Iasi, Romania

### **Investigation on the structural and optical properties of zinc oxide thin films modified by surface wave plasma**

[ 07/2015 ]

M.A. Ciolan, I. Motrescu, D. Luca, M. Nagatsu, 32nd ICPIG, July 26 - 31, Iasi, Romania

### **Ghost - vibrational type resonance in double discharge plasma configuration**

[ 07/2015 ]

M.A. Ciolan, C. Stan, Iuliana Motrescu, D. Alexandroaei, C.P. Cristescu, 32nd ICPIG, July 26 - 31, Iasi, Romania

### **Plasma assisted surface modification of magnetron sputtered thin films for development of novel functional materials for biosensing chips**

[ 09/2015 ]

M.A. Ciolan, I. Motrescu, D. Luca, M. Nagatsu, Inter - Academia 2015, Hamamatsu, Japan

### **Behavior of different sprout species under atmospheric pressure plasma treatment**

[ 12/2019 ]

Iuliana Motrescu, F.P. Herciu, M Filip, G. Jitareanu, The 11-th Asia-Pacific International Symposium on the Basics and Applications of Plasma Technology APSPT 11, Kanazawa, Japonia, A-11

### **Physical, Chemical, and Behavioral Modifications Induced by Atmospheric Pressure Plasma Exposure of Seeds**

[ 14/06/2020 - 16/06/2020 ]

Iuliana Motrescu, Anca Elena Calistru, Tudor Aostacioaei, Gerard Jitareanu, Conferința Națională de Biofizică, Brașov, România



## **Environmental Monitoring of Some Marine Waters through the Analysis of the Biomineralization in Mytilus sp. Shells using Spectrometric Techniques and Electron Microscopy**

[ 14/06/2020 – 16/06/2020 ]

Iuliana Motrescu, Anca Elena Calistru, Gerard Jitareanu, Liviu-Dan Miron, Conferința Națională de Biofizică, Brașov, România

## **Direct Cold Plasma vs. In-Package Treatment of Seeds for Sprouting**

[ 11/2020 ]

Iuliana Motrescu, Anca-Elena Calistru, Gerard Jitareanu, XIVth International Conference of Food Physicists

## **Fast Evaluation of Heavy Metal Contamination in Mytilus sp. Using Physical Analyses of the Shells**

[ 11/2020 ]

Iuliana Motrescu, Irina Gabriela Cara, Gerard Jitareanu, Liviu-Dan Miron, XIVth International Conference of Food Physicists

## **Utilization of a flexible electrode dielectric barrier discharge for agriculture applications**

[ 12/2020 ]

Iuliana Motrescu, Irina Gabriela Cara, Mihai Alexandru Ciolan, Anca-Elena Calistru, Gerard Jitareanu, 9th International Workshop & Summer School on Plasma Physics (IWSSPP 2020)

## **Tuning the sprouting outcome of seeds exposed to atmospheric surface DBD in different conditions**

[ 03/2021 ]

Iuliana Motrescu, Irina Gabriela Cara, Anca-Elena Calistru, Gerard Jitareanu, ISPlasma2021/IC-PLANTS2021, Japonia, 09pE160

## **Effects of Surface Dielectric Barrier Discharge Treatment of Some Sprout Species in Different Conditions**

[ 09/2021 ]

Iuliana Motrescu, Anca-Elena Calistru, Gerard Jitareanu, 1st Workshop on Plasma Applications for Smart and Sustainable Agriculture

## **Evaluation of heavy metal contamination in Mytilus sp. using fast detection physico-chemical methods**

[ 09/2021 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Gerard Jitareanu, Liviu-Dan Miron, 13th International Conference - Processes in Isotopes and Molecules PIM 2021

## **Cold plasma processing of seeds as non-chemical, green technology for production stimulation**

[ 09/2021 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Anca-Elena Calistru, Gerard Jitareanu, 13th International Conference - Processes in Isotopes and Molecules PIM 2021

## **Evaluation of heavy metal contamination in Mytilus sp. shells**

[ 10/2021 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Anca-Elena Calistru, Gerard Jitareanu, Liviu Dan Miron, Inter-Academia 2021 - The 19th International Conference on Global Research and Education

## **POSTERE PREZENTATE LA CONFERINȚE**

### **A method of measuring electrical noise**

[ 05/2001 ]

Iuliana Motrescu, FTEM, Iași, România

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### **Absolute measurements of metastable Ar atom density using diode laser atomic absorption spectroscopy**

[ 06/2003 ]

D.Alexandroaiei, A.C.Ciocan, I.Motrescu, L.Musteata and G.Popa, 16<sup>th</sup> International Symposium on Plasma Chemistry, Taormina, Italy

### **The oscillation modes of diode lasers**

[ 05/2003 ]

Iuliana Motrescu, FTEM, Iași, România

### **Measurements of the concentration of metastable atom by DLAAS**

[ 05/2003 ]

Iuliana Motrescu, Lucian Musteață, FTEM, Iași, România

### **Comparative plasma osmolality measurements for different species of animals**

[ 05/2003 ]

S.Oancea, A.Rapa, I.Raileanu, N.Victor, I.Motrescu, The National Congress of Veterinary Medicine, Iasi, Romania

### **A change of the oxihemoglobin spectrum introduced by toxic compounds**

[ 05/2003 ]

S.Oancea, A.Rapa, A.Airinei, I.Motrescu, The National Congress of Veterinary Medicine, Iasi, România

### **On the movement of a charged particle in the ion channel**

[ 16/06/2006 – 18/06/2006 ]

Oancea S., Clim C., Motrescu I., 5-th Conference on Mathematics applied in Biology & Biophysics, Iasi, Romania

### **Comparative effects of Fe<sup>2+</sup> and Fe<sup>3+</sup> on tomato plant growth**

[ 09/2007 ]

Servilia O., Foca N., Airinei A., Motrescu I., 53<sup>rd</sup> Scientific Symposium of USAMV, Iasi, Romania

### **The influence of direct current discharges on vegetal organisms exposed during early ontogenetic stages**

[ 11/2007 ]

I.Motrescu, C. Astefanoaei, C. Nadejde, D.E. Creanga, G. Stoian, TIM'07, Universitatea de Vest, Timisoara, Romania

### **Bacteria and Fungi Response to Cold Plasma Treatment**

[ 07/2008 ]

Iuliana Motrescu, A.Poiata, A.Nastuta, D.E.Creanga, G.Popa, 19<sup>th</sup> Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, Granada, Spain

### **Investigation of VUV/UV Emission and Mass Spectrometry in Plasma-Biopolymers Interaction in Different Gas Circumstances**

[ 01/12/2009 – 04/12/2009 ]

Iuliana Motrescu, Akihisa Ogino Masaaki Nagatsu, The Japan Society of Plasma Science and Nuclear Fusion Research 26th Annual Meeting, Kyoto International community House, 1pD32P, Japonia

## **Control of Biopolymer's Conformation by Means of Ion Bombardment of Microwave Plasma**

[ 01/12/2009 – 04/12/2009 ]

Takuya Hara, Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, The Japan Society of Plasma Science and Nuclear Fusion Research 26th Annual Meeting, Kyoto International community House, 1pD35P, Japonia

## **Modification of bio-polymers using microwave excited surface wave plasma**

[ 22/09/2009 – 27/09/2009 ]

I. Motrescu, T. Hara, A. Ogino, S. Tanaka, T. Fujiwara, S. Kodani, H. Kawagishi, Gheorghe Popa<sup>1</sup>, M. Nagatsu, 7th International Workshop on MICROWAVE DISCHARGES: FUNDAMENTALS AND APPLICATIONS (MD-7), CURREAC, Hamamatsu, Japonia

## **Surface Treatment of Arginine Vasotocin Powder by Air Plasma Sources at Atmospheric Pressure**

[ 17/03/2010 – 20/03/2010 ]

Tianling Ni, Akihisa Ogino, Iuliana Motrescu, Masaaki Nagatsu, The 57th Spring Meeting, 2010; The Japan Society of Applied Physics, Tokai Univ., 19a-R-1, Japonia

## **Experimental Study of Spore Etching of Microorganisms in Oxygen Plasma Using Optical and Mass Spectroscopy**

[ 20/06/2010 – 24/06/2010 ]

Y. Zhao, I. Motrescu, A. Ogino, M. Nagatsu, G. Popa, 37th IEEE International Conference on Plasma Science (ICOPS), Norfolk, VA, USA, 1P-71

## **Structural Modification of Amino Acids and Peptides Using Low-pressure Microwave Plasma**

[ 20/06/2010 – 24/06/2010 ]

I. Motrescu, T. Hara, A. Ogino, M. Nagatsu, G. Popa, 37th IEEE International Conference on Plasma Science (ICOPS), Norfolk, VA, USA, 1P-70

## **Study of Low-Temperature Plasma Modification of Bio-molecules**

[ 01/07/2010 – 04/07/2010 ]

I. Motrescu, A. Ogino, M. Nagatsu, 15th Int. Conf. on Plasma Physics and Application (CPPA2010), Iasi, Romania

## **Effects of Nitrogen and Oxygen Radicals on Low-temperature Bio-molecule Processing**

[ 04/10/2010 – 08/10/2010 ]

Iuliana Motrescu, Akihisa Ogino, Shigeyasu Tanaka, Taketomo Fujiwara, Shinya Kodani, Hirokazu Kawagishi, Gheorghe Popa, Masaaki Nagatsu, 63rd Annual Gaseous Electronics Conference and 7th International Conference on Reactive Plasmas, Paris, France, KWP.00023

## **Study of Structure Change of Bio-molecules by Low Temperature Plasma Processing**

[ 02/11/2010 – 03/11/2010 ]

Takuya Hara, Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, The 2010 Korean - Japanese Student Workshop, Pusan National University, Korea

## **Maskless Ultrafine Surface Modification onto Polymer Substrate by Atmospheric Pressure Plasma Jet with Nanocapillary**

[ 22/11/2011 ]

Michiyoshi Naito, Iuliana Motrescu, Akihisa Ogino, Masaaki Nagatsu, Plasma Conference 2011, Ishikawa, Japonia

## **Amino group micro-patterning on polymeric surfaces using micro-capillary atmospheric pressure plasma jet**

[ 09/03/2012 – 10/03/2012 ]

Iuliana Motrescu, Akihisa Ogino, and Masaaki Nagatsu, 5th Int. Conf. on Plasma-Nanotechnology & Science (IC-Plants 2012), Inuyama, Japan

## **Functional Amino Group Addition to Zinc Oxide Nanoparticles by Plasma Processing**

[ 09/03/2012 – 10/03/2012 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Akihisa Ogino, Dumitru Luca, Masaaki Nagatsu, 5th Int. Conf. on Plasma-Nanotechnology & Science(IC-Plants 2012), Inuyama, Japan

## **Nitrogen Plasma Modification of Amino Acids with or without ZnO Nanoparticles**

[ 27/03/2013 – 30/03/2013 ]

Iuliana Motrescu, Mihai Alexandru Ciolan, Dumitru Luca, Masaaki Nagatsu, The 60<sup>th</sup> JSAP Spring Meeting, Kanagawa Institute of Technology, Japonia.

## **Characterization of plasma functionalized ZnO nanoparticles**

[ 27/03/2013 – 30/03/2013 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, The 60<sup>th</sup> JSAP Spring Meeting, Kanagawa Institute of Technology, Japonia

## **Surface Amination of ZnO Nanoparticles by Surface-Wave Excited Ar/NH<sub>3</sub> Plasma Processing**

[ 20/06/2013 – 25/06/2013 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, Dumitru Luca, Masaaki Nagatsu, 16<sup>th</sup> International Conference on Plasma Physics and Applications, Magurele, Romania

## **Study of the Physicochemical Interactions between Nitrogen Plasma and Aminoacids**

[ 13/07/2013 – 19/07/2013 ]

Iuliana Motrescu, Masaaki Nagatsu, "Study of the Physicochemical Interactions between Nitrogen Plasma and Aminoacids", The 12<sup>th</sup> Asia Pacific Physics Conference of AAPPs, Chiba, Japonia

## **Investigation of the effect of electric discharges on soil fixed nitrogen**

[ 10/2015 ]

Iuliana Motrescu, A.E. Calistru, G. Jitareanu, International Scientific Congress "Life Sciences, a challenge for the future", Iasi, Romania

## **Biopolymers with Medical Applications**

[ 10/2016 ]

Luminita Confederat, Iuliana Motrescu, Sandra Constantin, Florentina Lupascu, Lenuta Profire, International Scientific Congress "Life Sciences, a challenge for the future", Iasi, Romania

## **Soil Analysis Using Scanning Electron Microscopy and Energy Dispersive X - Ray Spectroscopy**

[ 10/2016 ]

Iuliana Motrescu, A.E. Calistru, G. Jitareanu, International Scientific Congress "Life Sciences, a challenge for the future", Iasi, Romania

## **A new class of synthetic flavonoids as promising anti-Candida therapeutic agents**

[ 07/2019 ]

C. Babii, I. Motrescu, L. Birsa, M. Stefan, FEBS Congress, From Molecules to Living Systems, Krakow, Polonia


## **Transparent thin film of zinc oxide for solar cells applications fabricated by pulsed laser deposition**

[ 09/2021 ]

Mihai Alexandru Ciolan, Iuliana Motrescu, 13th International Conference - Processes in Isotopes and Molecules PIM 2021

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