

7. Списак објављених радова по категоријама

7.1 Радови у међународним часописима изузетних вредности (M21a)

Објављено пре претходног реизбора у звање:

- 1_ Aleksander G. Kovačević, Suzana Petrović, Vladimir Lazović, Davor Peruško, Dejan Pantelić, Branislav M. Jelenković, **Inducing subwavelength periodic nanostructures on multilayer NiPd thin film by low-fluence femtosecond laser beam**, *Applied Surface Science* **417** (2017), 155-159; Doi: 10.1016/j.apsusc.2017.03.141 (IF=4,439)
- 2_ Branka V. Kaludjerović, Mileša Srećković, Milovan Jančićević, Aleksander Kovačević, Slobodan Bojanić, **Influence of Nd³⁺: YAG laser irradiation on the properties of composites with carbon fibers**, *Composites Part B* **125** (2017), 165-174; Doi: 10.1016/j.compositesb.2017.05.076 (IF=4,920)
- 3_ Aleksander G. Kovačević, Suzana M. Petrović, Bojana M. Bokić, Biljana M. Gaković, Miloš T. Bokorov, Borislav Z. Vasić, Radoš B. Gajić, Milan S. Trtica, Branislav M. Jelenković, **Surface nanopatterning of Al/Ti multilayer thin films and Al single layer by a low-fluence UV femtosecond laser beam**, *Applied Surface Science* **326** (2015), 91-98; Doi: 10.1016/j.apsusc.2014.10.180 (IF=3,150)
- 4_ Dejan Pantelić, Srećko Ćurčić, Svetlana Savić-Šević, Aleksandra Korać, Aleksander Kovačević, Božidar Ćurčić and Bojana Bokić, **High angular and spectral selectivity of purple emperor (*Lepidoptera: Apatura iris* and *A. ilia*) butterfly wings**, *Optics Express* **19** (2011), 5817-5826; Doi: 10.1364/OE.19.005817 (IF=3,587)
- 5_ Zoran D. Grujić, Marina Mijailović, Dušan Arsenović, Aleksander Kovačević, Marko Nikolić, Branislav M. Jelenković, **Dark Raman resonances due to Ramsey interference in vacuum vapor cells**, *Physical Review A* **78** (2008), 063816; Doi: 10.1103/PhysRevA.78.063816 (IF=2,908)
- 6_ Aleksandar J. Krmpot, Marina M. Mijailović, Bratimir M. Panić, Dragan V. Lukić, Aleksander G. Kovačević, Dejan V. Pantelić, and Branislav M. Jelenković, **Sub-Doppler absorption narrowing in atomic vapor at two intense laser fields**, *Optics Express* **13** (5) (2005), pp.1448-1456; Doi: 10.1364/OPEX.13.001448
- 7_ Dejan Pantelić, Bratimir Panić, Aleksander Kovačević, **Digital control of iodine-stabilized He-Ne laser by using personal computer and simple electronic**, *Review of Scientific Instruments* (ISSN 0034-6748) **74** (6) (2003), 3155–3159.

7.2 Радови у међународним часописима изузетних вредности (M21)

Објављено пре претходног реизбора у звање:

- 1_ Angela Beltaos, Aleksander G. Kovačević, Aleksandar Matković, Uroš Ralević, Svetlana Savić-Šević, Djordje Jovanović, Branislav M. Jelenković, Radoš Gajić, **Femtosecond laser induced periodic surface structures on multi-layer graphene**, *Journal of Applied Physics* **116** (2014), 204306; Doi: 10.1063/1.4902950 (IF=2,183)

- 2_ Milovan Janičijević, Mileša Srećković, Branka Kaluđerović, Slobodan Bojanić, Dragan Družijanić, Mirko Dinulović, Aleksander Kovačević, **Characterization of laser beam interaction with carbon materials**, *Laser Physics* **23** (2013), 056002; Doi: 10.1088/1054-660X/23/5/056002 (IF=3,605)

7.3 Радови у истакнутим међународним часописима (M22)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Nebojsa Romcevic, Marina Lekic, Aleksander Kovacevic, Novica Paunovic, Borislav Vasic, Maja Romcevic, **Structural properties of femtosecond laser irradiation induced bismuth oxide based nano-objects in Bi₁₂SiO₂₀ (BSO) single crystal**, *Physica E: Low-dimensional Systems and Nanostructures* **148** (2023), a.115653(5), ISSN 1386-9477, doi: 10.1016/j.physe.2023.115653.
(<https://www.sciencedirect.com/science/article/pii/S1386947723000036>)
- 2_ Aleksander G. Kovačević, Suzana M. Petrović, Branislav Salatić, Marina Lekić, Borislav Vasić, Radoš Gajić, Dejan Pantelić, Branislav M. Jelenković, **Inducing LIPSS on multilayer thin metal films by femtosecond laser beam of different orientations**, *Optical and Quantum Electronics* **52** (6) (2020), a.301(9), ISSN 1572-817X, doi: 10.1007/s11082-020-02398-2
- 3_ Aleksander G. Kovačević, Suzana Petrović, Alexandros Mimidis, Emmanuel Stratakis, Dejan Pantelić, and Branko Kolaric, **Molding Wetting by Laser-Induced Nanostructures**, *Applied Sciences – Basel* **10** (17) (2020), a.6008 (10), doi: 10.3390/app10176008.

Објављено пре претходног реизбора у звање:

- 1_ Suzana Petrović, Davor Peruško, Janez Kovač, Peter Panjan, Miodrag Mitrić, Dejan Pjević, Aleksander Kovačević, Brana M. Jelenković, **Design of co-existence parallel periodic surface structure induced by picosecond laser pulses on the Al/Ti multilayers**, *Journal of Applied Physics* **122** (2017), 115302; Doi: 10.1063/1.4985830 (IF=2,176)
- 2_ Aleksander Kovačević, Jasna L. Ristić-Đurović, Marina Lekić, Branka Hadžić, Giama Saleh Isa Abudagel, Slobodan Petričević, Pedja Mihailović, Branko Matović, Dragan Dramlić, Ljiljana M. Brajović, Nebojša Romčević, **Influence of femtosecond pulsed laser irradiation on bismuth germanium oxide single crystal properties**, *Materials Research Bulletin* **83** (2016), 284-289; Doi: 10.1016/j.materresbull.2016.06.023 (IF=2,446)
- 3_ Predrag Drobnjak, Aleksander G. Kovačević, Andjelka Milosavljević, Željko M. Radovanovic, Ivan Samardžić, **Nimonic 263 microstructure and surface characterization after laser shock peening**, *Metalurgija* **54** (3) (2015), 551-554; ISSN 0543-5846; UDK: 669.25.26.28:535.2:620.179.6:620.18=111
- 4_ Angela Beltaos, Aleksander Kovačević, Aleksandar Matković, Uroš Ralević, Djordje Jovanović and Branislav Jelenković, **Damage effects on multi-layer graphene from femtosecond laser interaction**, *Physica Scripta* **2014** (2014), 014015; Doi: 10.1088/0031-8949/2014/T162/014015 (IF=1,126)

- 5_ Sanja Petronić, Aleksander G. Kovačević, Anđelka Milosavljević and Aleksandar Sedmak, **Microstructural changes of Nimonic-263 superalloy caused by laser beam action**, *Physica Scripta* **2012** (2012), T149-014080; Doi: 10.1088/0031-8949/2012/T149/014080 (IF=1,032)
- 6_ Sladjana N. Pantelić, Nadežda V. Borna, Mileša Ž. Srećković, Aleksander G. Kovačević, Aleksandar R. Bugarinović, Miloško S. Kovačević, and Djordje R. Lazarević, **Influence of nuclear radiation and laser beams on optical fibers and components**, *Nuclear Technology & Radiation Protection* **26** (2011), 32-38; Doi: 10.2298/NTRP1101032P (IF=1,159)
- 7_ Mileša Srećković, Aleksander Kovačević, Slobodan Bojanić, Ljubomir Vulićević, Slavica Ristić, Višnja Rajković, **Damages Induced By Laser Beams in Organic Materials**, *Laser Physics* (ISSN 1054-660X) **11** (3) (2001), 336-342.

7.4 Радови у међународним часописима (M23)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Suzana Petrović, George D. Tsibidis, Aleksander Kovačević, Nevena Božinović, Davor Peruško, Alexandros Mimidis, Alexandra Manousaki, and Emmanuel Stratakis, **Effects of static and dynamic femtosecond laser modifications of Ti/Zr multilayer thin films**, *The European Physical Journal D* **75** (12) (2021), a.304(10), doi: 10.1140/epjd/s10053-021-00291-5. (<https://link.springer.com/article/10.1140/epjd/s10053-021-00291-5>)

Објављено пре претходног реизбора у звање:

- 1_ Vladimir Škarka, Marina M. Lekić, Aleksander G. Kovačević, Boban Zarkov, Nebojša Z. Romčević, **Solitons generated by self-organization in bismuth germanium oxide crystals during the interaction with laser beam**, *Optical and Quantum Electronics* **50** (2018), 37-44; doi: 10.1007/s11082-017-1298-7 (IF=1,168)
- 2_ Isa Abudagel Giurma Saleh, Slobodan J. Petričević, Pedja M. Mihailović, Aleksander G. Kovačević, Jasna L. Ristić-Djurović, Marina M. Lekić, Maja J. Romčević, S. Ćirković, Jelena M. Trajić, Nebojša Ž. Romčević, **Improvement of magneto-optical quality of high purity Bi₁₂GeO₂₀ single crystal induced by femtosecond pulsed laser irradiation**, *Optoelectronics and Advanced Materials - Rapid Communications* **11** (2017), 477-481; URL: <https://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=3042&catid=103> (IF=0,386)
- 3_ Mileša Ž. Srećković, Branka Kaludjerović, Aleksander G. Kovačević, Aleksandar Bugarinović, Dragan Družijanić, **Interaction of laser beams with carbon textile materials**, *International Journal of Clothing Science and Technology* **27** (2015), 720-737; Doi: 10.1108/IJCST-07-2014-0086 (IF=0,418)
- 4_ Dragan Knežević, Magdalena Dragović, Vedran Ibrahimović, Mileša Srećković & Aleksander G. Kovačević, **Numerical complexity of real-time tracking of objects in defined space by infrared optoelectronic devices**, *Indian Journal of Pure & Applied Physics* **52** (2014), 457-464; URL: <http://nopr.niscair.res.in/handle/123456789/29025> (IF=0,767)
- 5_ Anđelka Milosavljević, Sanja Petronić, Aleksander Kovačević, Zorica Kovačević, Zoran Stamenić, **Laser shock peening of N-155 superalloy after longtime service**, *Technical Gazette* **20** (2013), 323-327; UDK: 621.9.048:669.15-196 (IF=0,615)

- 6_ Sanja Petronić, S. Drecun-Nešić, Anđelka Milosavljević, Aleksandar Sedmak, Miroslav Popović, Aleksander Kovačević,: **Microstructure Changes of Nickel-Base Superalloys Induced by Interaction with Femtosecond Laser Beam**, *Acta Physica Polonica A* **116** (4) (2009), 550-552; <http://przyrbwn.icm.edu.pl/APP/apphome.html>.
- 7_ Anđelka Milosavljević, Sanja Petronić, Mileša Srećković, Aleksander Kovačević, Aleksandar Krmpot, Kata Kovačević, **Fine-Scale Structure Investigation of Nimonic 263 Superalloy Surface Damaged by Femtosecond Laser Beam**, *Acta Physica Polonica A* **116** (4) (2009), 553-556; <http://przyrbwn.icm.edu.pl/APP/apphome.html>.
- 8_ Zoran D. Grujić, Marina M. Mijailović, Bratimir M. Panić, Milan Minić, Aleksander G. Kovačević, Milan Obradović, Branislav M. Jelenković, **Zeeman Coherences Narrowing due to Ramsey Effects Induced by Thermal Motion of Rubidium Atoms**, *Acta Physica Polonica A* **112** (5) (2007), 799-803; <http://przyrbwn.icm.edu.pl/APP/apphome.html>.
- 9_ Mileša Srećković, Jelena Ilić, Aleksander Kovačević, Slađana Pantelić, Zoran Latinović, Nadežda Borna, Vlada Ćosović, **Models of Interaction of Laser Beams with Materials of Interest for Optical Components and Provoked Damages**, *Acta Physica Polonica A* **112** (5) (2007), 935-940; <http://przyrbwn.icm.edu.pl/APP/apphome.html>.
- 10_ Aleksander Kovačević, Mileša Srećković, Radovan Gospavić, Slavica Ristić, Predrag Jovanić, **Laser-PMMA Interaction and Mechanical Stresses**, *Acta Physica Polonica A* **112** (5) (2007), 981-986; <http://przyrbwn.icm.edu.pl/APP/apphome.html>.

7.5 Радови у националним часописима међународног значаја (M24)

7.6 Предавања по позиву са међународних скупова штампана у изводу (M32)

Објављено пре претходног реизбора у звање:

- 1_ A. G. Kovačević, S. Petrović, M. Lekić, Branislav M. Jelenković, **Inducing LIPSS by multi-pass and cross-directional scanning of femtosecond beam over surface of thin metal films**, *Book of Abstracts UltrafastLight-2018* (2018), 108 (International Conference on Ultrafast Optical Science, Moscow, 2018-10- 01—05)

7.7 Саопштења са међународних скупова штампана у целини (M33)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Ana Kovačević, Aleksander Kovačević, **Some engineering methods used in biophotonics as support in the investigation of insects**, *Proceedings LXVIII Conference ETRAN and 11th International Conference IcETAN 2024* (Niš, June 3 - 6, 2024), pp. 355 – 358, AS-MD11.4 (4 pages) (https://www.etrans.rs/2024/E_ZBORNIK_IcETAN_2024/061_MD11.4.pdf).
- 2_ Mileša Srećković, Aleksandar Bugarinović, Milanka Pećanac, Zoran Karastojković, Milovan Janićijević, Aleksander Kovačević, Stanko Ostojić, Nenad Ivanović, **Laser interaction of interest for materials in systems and components in energy transformation in linear and**

nonlinear ranges, *Proceedings, 11th International Conference on Renewable Electrical Power Sources – ICREPS* (Belgrade, November 2 and 3, 2023), pp. 359 – 367, ISBN 978-86-85535-16-1.

- 3_ Zoran Mijić, Maja Kuzmanoski, Luka Ilić, Aleksander Kovačević and Darko Vasiljević, **Review of atmospheric aerosol optical properties profiling and lidar station activities in Serbia**, *Book of abstracts and contributed papers, IV Meeting on Astrophysical Spectroscopy - A&M DATA – Atmosphere* (Fruška gora, May 30 – June 2, 2022), pp. 89 – 96. ISBN 978-86-82441-57-1 (<http://www.asspectro2022.ipb.ac.rs/book-AsSpectro2022d.pdf>).
- 4_ Mileša Srećković, Zoran Karastojković, Nenad Ivanović, Slađana Pantelić, Suzana Polić, Stanko Ostojić, Aleksander Kovačević, **Chosen contemporary problems in fields of coherent optics, photophysics and interactions with ELION radiation**, *Proceedings / 7th International Conference on Renewable Electrical Power Sources – ICREPS* (Belgrade, October 17-18, 2019), pp. 83 – 99; ISBN 978-86-81505-97-7 (<https://izdanja.smeits.rs/index.php/mkoiee/article/view/5932/6144>).

Objavljeno pre pretходног реизбора у звање:

- 1_ Ana Kovačević, Aleksander Kovačević, **Some examples of low-fluence laser applications in the protection of plants and cultural heritage** *Proceedings of selected papers of The First International Students Scientific Conference „Multidisciplinary Approach to Contemporary Research“* (Belgrade, 25-26.11.2017), pp.403–408, ISBN 978-86-6179-056-0
- 2_ Anđelka Milosavljević, Predrag Drobnjak, Aleksander G. Kovačević, Sanja Petronić, Ivana Cvetković, **Investigation of Microstructure Changes of Nickel Based Superalloy M-252 Arisen by Femtosecond Laser**, *Proceedings of NANT 2* (2015), 165–170 (2nd International Conference on Modern Methods of Testing and Evaluation in Science; Belgrade, 2015), (ed. Sanja Petronić, Nataša Bojković); UDK 615.849.19: 669.018, ISBN 978-86-918415-1-5
- 3_ Milovan Janićijević, Branka Kaludjerović, Mileša Srećković, Aleksander Kovačević, Dragan Družijanić, **Modeling and experiments in the interaction of laser beam with carbon nanoporous materials**, *11th Annual Conference YUCOMAT 2009* (Herceg Novi, Montenegro, August 31 – September 4, 2009), Proceedings p. (2009).
- 4_ Zoran Mijić, Mirjana Tasić, Bratimir Panić, Darko Vasiljević, Aleksander Kovačević, Branislav Jelenković, Ilija Belić, **Daljinska detekcija aerosola – LIDAR sistem**, *Scientific-Professional Conference with International Participation «Modern Technologies for Cities' Sustainable Development»* (Banja Luka, R. Srpska, 14.-15. novembar 2008.) Proceedings (2009), p.243-251.
- 5_ Mileša Srećković, Branka Kaludjerović, Nenad Ivanović, Aleksander Kovačević, Dragan Družijanić, Milovan Janićijević, **Modelling and Experiment in Area of Interaction of Carbon Cloth Material with Various Laser Types**, *Proceedings SCM 3* (2007), 147–148 (3rd Serbian Congress for Microscopy; Beograd, 2007-09- 25–27)
- 6_ Mileša Srećković, Željka Tomić, Suzana Polić - Radovanović, Marina Kutin, Aleksander Kovačević, Slavica Ristić, Z. Nedić, Aleksandar Bugarinović, Ljubomir Vulićević, Zoran Karastojković, Radovan Gospavić, Zoran Fidanovski, **Laser Interaction in Theory and Practice**, *Proceedings ATDC 5* (2006), 245–250 (V DAAM Conference ATDC; Rijeka, 2006-06-28–30); URL: <http://www.daaam.com/daaam/Publications/Publications.htm>

- 7_ Milesa Srećković, Aleksander Kovačević, Milena Davidović, Mirko Dinulović, Marina Kutin, Anđelka Milosavljević, Biljana Đokić, **Heating phenomena and approaches for active and passive materials**, *Proceedings SPIG 23* (2006), 243–246 (XXIII SPIG Conference; Kopaonik, 2006-08-28–09-01)
- 8_ Aleksandar J. Krmpot, Marina M. Lekić, Bratimir M. Panić, Dragan Lukić, Aleksander Kovačević, Dejan Pantelić, Branislav M. Jelenković, **Sub-Doppler absorption narrowing in V, A and N-type atom at intense laser fields**, *Proceedings of SPIE 5830* (2005-05-05), 186–190; DOI:10.1117/12.617878.
- 9_ Dejan V. Pantelić, Bratimir M. Panić, Aleksander G. Kovačević, Aleksandar J. Krmpot, **Using coherence properties for frequency stabilizing He-Ne laser**, *Proceedings of SPIE 5830* (2005-05-05), 286–290; DOI:10.1117/12.618818.

7.8 Saopšteња sa međunarodnih skupova štampana u izvodu (M34)

Objavljeno nakon pokretaња pretходног поступка реизбора у звање:

- 1_ Aleksander G. Kovačević, Suzana Petrović, Giorgos D. Tsibidis, Nevena Božinović, Davor Peruško, Alexandros Mimidis, Aleka Manousaki, Emmanuel Stratakis, **Single-pulse and scanning multiple-pulse ultrafast laser beam interaction with Ti/Zr multilayer thin films**, *Book of Abstracts, 17th Photonics Workshop (Conference), (Kopaonik, March 10-14, 2024)*, p.24, ISBN 978-86-82441-62-5.
- 2_ Branka Murić, Svetlana Savić-Šević, Aleksander Kovačević, Dejan Pantelić, Branislav Jelenković, **Real-time fabrication of the structures on the modified chitosan**, *Book of Abstracts, IX International School on Photonics - Photonica 2023*, p.60, ISBN 978-86-7306-165-8
- 3_ Aleksander Kovačević, Tanja Pajić, Djordje Jovanović, Marina Stanić, Danica Pavlović, Olga Fedotova, Oleg Khasanov, Rygor Rusetski, Marina Lekić, Branislav Salatić, Branislav Jelenković, **Beam modification during propagation through aqueous microalgae suspension of interest to waveguiding**, *Book of Abstracts, 16th Photonics Workshop (Conference), (Kopaonik, March 12-15, 2023)*, p.53; ISBN 978-86-82441-59-5
- 4_ Milesa Srećković, Aleksandar Bugarinović, Nada Ratković Kovačević, Željka Tomić, Stanko Ostojić, Aleksander Kovačević, **Laser Additive Manufacturing techniques**, *International Conference "Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing" – SIRAMM23 (Timisoara, Romania & Online, 8th –11th March 2023, H2020-WIDESPREAD-2018-03, Project No. 857124)*, pp. 142 – 143.
- 5_ Aleksander G. Kovačević, Tanja Pajić, Danica Pavlović, Marina Stanić, Marina Lekić, Olga Fedotova, Stanko N. Nikolić, Oleg Khasanov, Ryhor Rusetski, Najdan Aleksić, Branislav M. Jelenković, **Laser beam waveguiding capabilities of the suspension of Chlorella sorokiniana in water**, *Book of Abstracts, 15th Photonics Workshop (Kopaonik, March 13 – 16, 2022)*, p.55. ISBN 978-86-82441-55-7.
- 6_ Milesa Srećković, Aleksander Kovačević, Stanko Ostojić, Slađana Pantelić, Nenad Ivanović, Zoran Karastojković, **Kvantni generator sa solarnom pumpom sa strane teorije, eksperimenta i stvarnosti**, *Proceedings / 9th International Conference on Renewable Electrical Power Sources – ICREPS (Belgrade, October 15, 2021)*, pp. 137 – 145;

- 7_ Aleksander G. Kovacevic, Tanja Pajic, Danica Pavlovic, Marina Stanic, Marina Lekic, Stanko Nikolic, Branislav Jelenkovic, **Narrowing of laser beam propagating through biological suspension**, *Book of Abstracts, 8th International School and Conference on Photonics / PHOTONICA2021, (Belgrade, August 23 – 27, 2021)*, p.75, ISBN 978-86-82441-53-3.
- 8_ Aleksander G. Kovačević, Suzana Petrović, Jelena Potočnik, Marina Lekić, Branislav Salatić, Vladimir Lazović, Dejan Pantelić, Branislav Jelenković, **Laser-induced parallel structures on multilayer thin films of Ni, Pd, Ti, Ta and W**, *Book of Abstracts, 14th Photonics Workshop (Conference), (Kopaonik, March 14-17, 2021)*, p.13, ISBN 978-86-82441-52-6 (<https://izdanja.smeits.rs/index.php/mkoiee/article/view/6645>)
- 9_ Aleksander G. Kovačević, Suzana M. Petrović, Branislav Salatić, Marina Lekić, Borislav Vasić, Radoš Gajić, Dejan Pantelić, Branislav Jelenković, **Inducing LIPSS on thin metal films by femtosecond laser beam of different orientations**, *Book of Abstracts, 7th International School and Conference on Photonics / PHOTONICA2019, (Belgrade, August 26 – 30, 2019)*, p.144, ISBN 978-86-7306-153-5.

Објављено пре претходног реизбора у звање:

- 1_ Aleksander G. Kovačević, Suzana M. Petrović, Davor Peruško, Vladimir Lazović, Iva Bogdanović-Radović, Vladimir Pavlović, Dejan Pantelić, Branislav M. Jelenković, **Inducing periodic nanostructures on multilayers of Ti and Ta by femtosecond laser beam**, *Book of abstracts Photonica 6* (2017), 179 (6th International Conference and School on Photonics 2017; Belgrade, 2017- 08-28—09-01)
- 2_ Aleksander G. Kovačević, Suzana Petrović, Petar Panjan, Vladimir Lazović, Davor Peruško, Svetlana Savić-Šević, Dejan Pantelić, Branislav M. Jelenković, **Inducing nanoparticles and periodic nanostructures on thin metal films by low-fluence femtosecond beam**, *Book of Abstracts UNO-4* (2015), 57 (4th International Workshop on Ultrafast Nano-optics; Bad Duerkheim, 2015-10- 18—22)
- 3_ A. G. Kovačević, S. Petrović, A. Matković, U. Ralević, A. Beltaos, D. Peruško, B. Vasić, R. Gajić, B. M. Jelenković, **Surface nanostructures on surface of multilayered thin films induced by femtosecond laser beam**, *Book of abstracts Photonica 5* (2015), 206 (5th International Conference and School on Photonics 2015; Belgrade, 2015-08- 24—28)
- 4_ Aleksander G. Kovačević, Mileša Srećković, Zoran Karastojković, Aleksandar Grujić, Veljko Zarubica, Predrag Jovanić and Branislav M. Jelenković, **Laser beam damaging of PMMA-type materials**, *Book of Abstracts MediNano 3* (2010), PSB_17 (3rd Mediterranean Conference on Nanophotonics 2010; Belgrade, 2010-10- 18–19); http://www.medinano3.ipb.ac.rs/tentative_schedule.htm
- 5_ Mileša Srećković, Aleksander Kovačević, Višeslava Rajković, Željka Tomić, Milan Dukić, Aleksandar Bugarinović, Predrag Jovanić, **Laser damage in thin films and bulk materials**, *Proceedings SCM 4* (2010), 101–102 (4th Serbian Congress for Microscopy; Beograd, 2010-10-11–12)

- 6_ Milovan Janićijević, Branka Kaludjerović, Mileša Srećković, Aleksander Kovačević, Dragan Družijanić, **Approach to Modeling Interaction of Carbon Fiber Materials and Laser Beam with Experiment**, *Book of Abstracts YUCOMAT 12* (2010), 117 (PSB_22) (12th Annual Conference YUCOMAT 2010; Herceg Novi, 2010-09-06–10); <http://www.mrs-serbia.org.rs/images/2010-3.pdf>
- 7_ Sanja Petronić, Anđelka Milosavljević, Aleksander Kovačević, Radica Prokić-Cvetković, Ž. Radovanović, Radovan Radovanović, Višeslava Rajković, **Mechanical and Thermomechanical Laser Treatment of Iron Base Superalloy N-155**, *Book of Abstracts YUCOMAT 12* (2010), 135 (PSB_50) (12th Annual Conference YUCOMAT 2010; Herceg Novi, 2010-09-06–10); <http://www.mrs-serbia.org.rs/images/2010-3.pdf>
- 8_ Milovan Janićijević, Branka Kaludjerović, Mileša Srećković, Aleksander Kovačević, Dragan Družijanić, **Modeling and experiments in the interaction of laser beam with carbon nanoporous materials**, *Book of abstracts YUCOMAT 11* (2009), PSA_37, (11th Annual Conference YUCOMAT 2009; Herceg Novi, 2009-08-31–09-04); <http://www.mrs-serbia.org.rs/images/2009-1.pdf>
- 9_ Sanja Petronić, Anđelka Milosavljević, Zoran Radaković, Aleksander Kovačević, Vlada Gašić, **Investigation of Laser Surface Processing of Steel and Nickel Based Superalloy**. *Book of abstracts ICOM 3* (2009), 2_64 (ICOM 2009; Herceg Novi, 2009-08-27–30); www.icomonline.org
- 10_ Mileša Srećković, Branka Kaludjerović, Aleksander Kovačević, Višeslava Rajković, Slađana Pantelić, Zoran Latinović, Dragan Družijanić, Milovan Janićijević, **Some Problems in Modelling of Laser Interaction with Transparent and Absorptive Materials**, *Book of abstracts ICOM 3* (2009), 2_75 (204) (ICOM 2009; Herceg Novi, 2009-08-27–30); www.icomonline.org
- 11_ Biljana Djokić, Mileša Srećković, Stanko Ostojić and Aleksander Kovačević, **Simulation and computation of laser cavity using modern software tools**, *Book of abstracts Photonica 2* (2009), 89 (TU_55) (II International School and Conference on Photonics – Photonica09; Beograd, 2009-08-24–28); <http://photonica09.phy.bg.ac.rs/UserFiles/File/BookOfA/Contributed%20papers%20-%20Poster%20sessions.pdf>

7.9 Монографија националног значаја (M42)

Објављено пре претходног избора у звање:

- 1_ Ilija Belić, Aleksander Kovačević, Darko Vasiljević, Bratimir Panić, Branislav Jelenković, Mirjana Tasić, *Lidar u detekciji aerezagađenja LID-2*, Univerzitet u Beogradu - Institut za fiziku (Beograd, 2008), Monografija (2008-12-19); ISBN 978-86-82441-24-3
- 2_ Mileša Srećković, Aleksandar Bugarinović, Željka Tomić, Aleksander Kovačević, Višeslava Rajković, *Interakcija lasera sa materijalom: teorija, eksperiment i realnost*, Regionalni centar za talente „Beograd-2“ (Beograd, 2012), Monografija; ISBN 978-86-916225-0-3

7.10 Poglavље u књизи M42 или рад у тематском зборнику националног значаја (M45)

Објављено пре претходног реизбора у звање:

- 1_ „**Osnove i primene neuronskih mreža**“, pp. 335-345; deo III, gl. 5 u *Laserske tehnike i metrologija u forenzičkim naukama*, Akademska misao (Beograd, 2017) monografija (ur. M. Srećković, R. Radovanović, A. Milosavljević, S. Jaćimovski), Aleksander Kovačević, referenci: 17, auto: 9, ISBN: 978-86-7466-658-6
- 2_ „**Numerical Principles and Problems in the Design and Implementation of Some Modern Quantum Generators**“, Mileša Srećković, Biljana Djokić, Aleksander Kovačević, *Machine Design* (2009), 63–68 (ISSN 1821-1259); http://www.ftn.uns.ac.rs/m_design/pdf/2009.pdf

7.11 Рад у водећем часопису националног значаја (M51)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Mileša Srećković, Suzana Polić, Milivoje Ivković, Zoran Karastojković, Milica Vinić, Aleksander Kovačević, Slobodan Bojanić, **Contemporary laser techniques, general application in heritology and case of building in 7 Balkanska street, Belgrade**, *Materials Protection* **61** (4) (2020), pp. 275 – 285, ISSN 0351-9465, E-ISSN 2466-2585 (doi: 10.5937/zasmat2004275S).

Објављено пре претходног избора у звање:

- 1_ Ilija Belić, Darko Vasiljević, Bratimir Panić, Aleksander Kovačević, Dejan Pantelić, Branislav Jelenković, Mirjana Tasić, **Prijemni optički blok za LIDAR – LID 2**, *Tehnika LXIII* (1/2008) – *Elektrotehnika* **57** (1/2008), 7–13 (MNO 2009–2010 Energetika i rudarstvo); <http://scindeks.nb.rs/article.aspx?artid=0013-58360801007B>
- 2_ Darko Vasiljević, Ilija Belić, Bratimir Panić, Aleksander Kovačević, Dejan Pantelić, Branislav Jelenković, Mirjana Tasić, **Teleskop za LIDAR – LID2**, *Tehnika LXIII* (4/2008) – *Elektrotehnika* **57** (4/2008), 1–6 (MNO 2009–2010 Energetika i rudarstvo); <http://scindeks.nb.rs/article.aspx?artid=0013-58360804001V>
- 3_ Aleksander Kovačević, Darko Vasiljević, Ilija Belić, Bratimir Panić, Dejan Pantelić, Branislav Jelenković, Mirjana Tasić, **Podsistem za prikupljanje i pripremnu obradu podataka u LIDAR sistemu**, *Tehnika LXII* (4/2007) – *Elektrotehnika* **56** (4/2007), 9–13 (MNO 2009–2010 Energetika i rudarstvo); <http://scindeks.nb.rs/article.aspx?artid=0013-58360704009K>
- 4_ Mileša Srećković, Aleksander Kovačević, Anđelka Milosavljević, Stanko Ostojić, Sanja Jevtić, Dragan Knežević, **Energetika, kvantna elektronika, nelinearna optika i laserska tehnika**, *Energija* **2009** (5/2009), 005–017 (MNO 2009 Energetika i rudarstvo)
- 5_ Bratimir Panić, Milan Minić, Aleksander Kovačević, Darko Vasiljević, Ilija Belić, Dejan Pantelić, Branislav Jelenković, Mirjana Tasić, **Fotodetekcija optičkog signala u LIDAR sistemu LID2**, *Tehnika LXIV* (1/2009) – *Elektrotehnika* **58** (1/2009), 1–6 (MNO 2009–2010 Energetika i rudarstvo); <http://scindeks.nb.rs/article.aspx?artid=0013-58360901001P>

- 6_ Darko Vasiljević, Ilija Belić, Bratimir Panić, Aleksander Kovačević, Dejan Pantelić, Branislav Jelenković, Mirjana Tasić, **Projektovanje proširivača snopa za LIDAR – LID2**, *Tehnika LXII* (3/2007) – *Elektrotehnika* **56** (3/2007), 1–8 (MNO 2009–2010 Energetika i rudarstvo); <http://scindeks.nb.rs/article.aspx?artid=0013-58360703001V>
- 7_ Mileša Srećković, Anđelka Milosavljević, Aleksander Kovačević, Radovan Gospavić, Milan Trtica, Zoran Ristić, Nevenka Cvetković, Đorđe Čantrak, **Interaction of Lasers of Various Types with Alloys Based on Ni and Ti**, *FME Transactions* **36** (4/2008), 167–173 (MNO 2010 Mašinstvo; 2009–2010 MNO Energetska efikasnost i obnovljivi izvori energije); <http://scindeks.nb.rs/article.aspx?artid=1451-20920804167S>

7.12 Предавање по позиву са скупа националног значаја штампано у целини (M61)

Објављено пре претходног реизбора у звање:

- 1_ Александер Ковачевић, **Неке примене оптичких метода као подршка у конзервацији и рестаурацији објеката културне баштине**, *Зборник извода и изабраних радова НАНТ 3* (2017) 18—25 (Конференција Први научни скуп Мултидисциплинарни приступ културној баштини, савременим материјалима и технологији; Београд, 2017), ур. Сања Петронић, Сузана Полић; издавач Централни институт за конзервацију и Научно друштво за развој и афирмацију нових технологија; ISBN 978-86-6179-055-3

7.13 Предавање по позиву са скупа националног значаја штампано у изводу (M62)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Aleksander Kovačević, **Laser induced surface nanostructures and potential contemporary and future applications**, *LXVII ETRAN and 10th International Conference IcETLAN 2023*, (*Istočno Sarajevo, BiH, 05 – 08.06.2023*), SS-MD1.1, p.73, ISBN 978-86-7466-965-5.

7.14 Саопштења са скупова националног значаја штампана у целини (M63)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Milanka Pećanac, Aleksander Kovačević, Stanko Ostojić, Bećko Kasalica and Zoran Nedić, **Efekte luminescencije, materijali i razne pobude**, *Program and Book of Abstracts LXVIII Conference ETRAN and 11th International Conference, IcETLAN 2024 (Niš, June 3 - 6, 2024)*, PS-HE1.5 (7 pages (#0375)), ISBN 978-86-6200-002-6 (https://www.etrans.rs/2024/E_ZBORNIK_ETLAN_2024/067_HE1.5.pdf).
- 2_ Stanko Ostojić, Milanka Pećanac, Bećko Kasalica, Aleksander Kovačević and Zoran Nedić, **Luminescencija kroz karakteristične krive i analitičke formulacije**, *Program and Book of Abstracts LXVIII Conference ETRAN and 11th International Conference IcETLAN 2024 (Niš, June 3 - 6, 2024)*, PS-DIG1.4 (5 pages (#4332)), ISBN 978-86-6200-002-6 (https://www.etrans.rs/2024/E_ZBORNIK_ETLAN_2024/053_DIG1.4.pdf).

- 3_ Milanka Pećanac, Bećko Kasalica, Aleksander Kovačević, Zoran Nedić, Miodrag Malović, Predrag Drobnyak, **Luminescentni efekti materijala i primena**, *ZBORNIK RADOVA, LXVII KONFERENCIJA ETRAN, (Istočno Sarajevo, BiH, 05 – 08.06.2023)*, SSHE1.5 (7 pages), ISBN 978-86-7466-969-3.
- 4_ Александер Ковачевић, Сузана Петровић, Марина Лекић, Борислав Васић, Бранислав Салатић, Јелена Поточник, **Суб-микрометарске паралелне површинске структуре индуковане фемтосекундним ласерским снопом у форензици**, *PROCEEDINGS / ЗБОРНИК РАДОВА ICETAN / ЕТРАН 878 (Нови Пазар, јун 2022)*, SSFO2.6 (4 pages), ISBN 978-86-7466-930-3.
- 5_ Mileša Srećković, Veljko Zarubica, Aleksander Kovačević, Zoran Fidanovski, Suzana Polić, Milena Davidović, **Deskripcija, heritologija i metrologija boje**, *PROCEEDINGS / ЗБОРНИК РАДОВА ICETAN / ЕТРАН 906 (Нови Пазар, јун 2022)*, SSHE1.5 (4 pages), ISBN 978-86-7466-930-3.
- 6_ Aleksandar Bugarinović, Željka Tomić, Sanja Jevtić, Aleksander Kovačević, Svetlana Pelemiš, Zoran Nedić, Dragan Družijanić, **Različiti režimi rada kvantnih generatora kao instrument za modifikacije u stomatologiji**, *PROCEEDINGS / ЗБОРНИК РАДОВА ICETAN / ЕТРАН 867 (Нови Пазар, јун 2022)*, SSFO2.3 (4 pages), ISBN 978-86-7466-930-3.
- 7_ Mileša Srećković, Nenad Ivanović, Stanko Ostojić, Aleksander Kovačević, Nada Ratković Kovačević, Zoran Karastojković, Sanja Jevtić, **Application of lasers in automotive industry**, *Proceedings / 8th International Conference on Renewable Electrical Power Sources – ICREPS (Belgrade, October 16-18, 2020)*, pp. 223 – 239; doi: 10.24094/mkoiee.020.8.1.223 (<https://izdanja.smeits.rs/index.php/mkoiee/article/view/6140>).
- 8_ Милеса Срећковић, Александер Ковачевић, Ацо Јанићијевић, Сузана Полић, Зоран Недић, Зоран Стевић, Сања Јевтић, Милован Јанићијевић, **Ласерске технике и спреге са другим техникама у проблематици данашњице у теорији и пракси**, *Конференција "Савремени материјали 2020"*, (Бања Лука, 11. септембар 2020), pp. 21 – 50.

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- 1_ Aleksander Kovačević, **Uloga informatike i neuralnih mreža u očuvanju kulturne baštine**, *Book of Abstracts, Selected Papers and Posters from the Conference on Contemporary Support of Technological Sciences in Cultural Heritage Preservation & Ethical Aspects (Belgrade, 2017)*, 79–81; ISBN 978-86-6179-058-4
- 2_ Mileša Srećković, Suzana Polić, Zoran Stević, Aleksander Kovačević, Ružica Vasić, Zoran Karastojković, Nada Borna, Srđan Milanović, Sanja Jevtić, **Termovizijska analiza razvijenih temperatura na različitim tipovima materijala i zavisnost od talasne dužine upadnog laserskog snopa**, *Zbornik izvoda i izabranih radova NANT 3 (2017)*, 70—83, (Prvi naučno-stručni skup Multidisciplinarni pristup kulturnoj baštini, savremenim materijalima i tehnologijama; Belgrade, 06-2017), eds. Sanja Petronić, Suzana Polić; ISBN 978-86-6179-055-3
- 3_ Željka Tomić, Mileša Srećković, Slađana Pantelić, Stanko Ostojić, Aleksander Kovačević, Veljko Zarubica, **Material Characteristics and Their Evaluation for Ultrafast Phenomena**, *Zbornik radova (CD) Infotech 9 (2010)*, 815–819 (E_V_26), (Infotech 9; Jahorina, 2010-03- 17–19); ISBN 99938-624-2-8

- 4_ Zoran Mijić, Mirjana Tasić, Bratimir Panić, Darko Vasiljević, Aleksander Kovačević, Branislav Jelenković, Ilija Belić, **Daljinska detekcija aerosola – LIDAR sistem**, Proceedings MTCSD 1 (2009), 243–251, (Scientific-Professional Conference with International Participation „Modern Technologies for Cities’ Sustainable Development“; Banja Luka, 2008-11-14–15)
- 5_ Milesa Srečković, Željka Tomić, Miloš Pavlović, Aleksander Kovačević, Dragan Družijanić, Dragan Knežević, Saša Milić, Julijana Mirčevski, Biljana Đokić, Magdalena Dimitrijević, Milena Davidović, **Contemporary problems of quantum electronics and lidar techniques („Savremeni problemi kvantne elektronike i lidarskih tehnika“)**, Proceedings (CD) Infoteh 7 (2008), 663–667 (E_VII_14), (Infoteh 7 Conference 2008, Jahorina, R. Srpska, 2008-03-26–28)
- 6_ Aleksander Kovačević, Bratimir Panić, Milan Minić, Darko Vasiljević, Zoran Mijić, Mirjana Tasić, Branislav Jelenković, **Detekcija povratnog rasejanog zračenja LIDAR sistema na 532 nm**, Zbornik radova ETRAN 52 (2008), MO5.4_1_4 (4 stranice), (LII ETRAN; Palić, 2008-06-08–12); ISBN 978-86-80509-63-1
- 7_ Marko Nikolić, Aleksander Kovačević, **Stabilizacija temperature unutrašnjosti interferometra za kalibraciju graničnih merila**, Zbornik radova ETRAN 52 (2008), ML4.8_1_4 (3 stranice), (LII ETRAN; Palić, 2008-06-08–12); ISBN 978-86-80509-63-1
- 8_ Milesa Srečković, Biljana Đokić, Marina Kutin, Julijana Mirčevski, Aleksander Kovačević, Veljko Zarubica, **Edukacioni prilaz interferometrima i interferometriji**, Zbornik radova ETRAN 51 (2007), EDU_1_1 (4 stranice), (LI ETRAN; Herceg Novi, 2007-06-04–08)
- 9_ Biljana Đokić, Milesa Srečković, Aleksander Kovačević, Julijana Mirčevski, Nikola Bundaleski, **Upotreba programskih paketa za oblikovanje laserskog snopa i njihova uloga u edukaciji**, Zbornik radova ETRAN 51 (2007), EDU_1_2 (4 stranice), (LI ETRAN; Herceg Novi, 2007-06-04–08)
- 10_ Ilija Belić, Darko Vasiljević, Aleksander Kovačević, Dejan Pantelić, Mirjana Tasić, Branislav Jelenković, **Primena LIDAR-a u detekciji aero-zagađenja**, Zbornik radova KMJ 5 (2007), 181–189, (Kongres metrologa Srbije; Zlatibor, 2007-09-28–29), urednici: Ivanka Popović, Đorđe Janačković, Bojan Jokić, Đorđe Veljović; ISBN 978-86-7401-248-2
- 11_ Boban Zarkov, Dejan Pantelić, Bratimir Panić, Aleksander Kovačević, Aleksandar Krmpot, Ilija Belić, **Razvoj kontinualnog Nd:YAG lasera sa saosnom diodnom pobudom**, Zbornik radova ETRAN 50 (2006), IV_96–99, (L ETRAN; Beograd, 2006-06-06–08); ISBN 86-80509-58-2

7.15 Саопштења са скупова националног значаја штампана у изводу (M64)

Објављено након покретања претходног поступка реизбора у звање:

- 1_ Aleksander Kovačević, **Chosen problems and applications of methods in entomology and engineering and their coupling with natural sciences**, *Book of abstracts, LXVII ETRAN and 10th IcETRAN* (Istočno Sarajevo, BiH, 05 – 08.06.2023), SS-MD1.4, p.74, ISBN 978-86-7466-965-5.

- 2_ М. Срећковић, А. Ковачевић, **Ретроспектива методолошких приступа примене ласерских техника у херитологији: изабране студије, Retrospective of metodologic approaches to laser techniques implementation in heritology: chosen studies**, *Програм и Зборник апстраката и изабраних радова са Друге националне конференције Методолошка истраживања у херитологији и новим технологијама* (Београд, 26. јун 2020; Централни институт за конзервацију и Друштво за етичност и вредновање у култури и науци, Београд, 2020), стр. 15-17. ISBN 978-86-6179-075-1
- 3_ М. Срећковић, З. Недић, А. Ковачевић, З. Карастојковић, М. Винић, М. Ивковић, **Проблеми интерпретације и идентификације примене разних дијагностичких техника у културној баштини / Problems of interpretation and identification of various diagnostic techniques in cultural heritage**, *Програм и Зборник апстраката и изабраних радова са Друге националне конференције Методолошка истраживања у херитологији и новим технологијама* (Београд, 26. јун 2020; Централни институт за конзервацију и Друштво за етичност и вредновање у култури и науци, Београд, 2020), стр. 72-73. ISBN 978-86-6179-075-1
- 4_ Ана Jakovljević, Milena Tucić, Vera Stamenković, Aleksander Kovačević, Tanja Pajić, Pavle Andjus, **Structural analysis of perineuronal nets with high resolution microscopies**, *Book of Abstracts, 12th Photonics Workshop (Conference)*, (Копоник, March 10-14, 2019), p.26, ISBN 978-86-82441-49-6.
- 5_ А. Ковачевић, **Препознавање облика неуронском мрежом у области заштите културног наслеђа / Neural network pattern recognition in the area of cultural heritage protection**, *Програм и Зборник апстраката са Прве националне конференције Методолошка истраживања у херитологији и новим технологијама*, (Београд, 16. март 2019; Централни институт за конзервацију и Друштво за етичност и вредновање у култури и науци, Београд, 2019), стр. 42-43, ISBN 978-86-6179-070-6 (ЦИК).

Објављено пре претходног реизбора у звање:

- 1_ Aleksander G. Kovačević, Suzana Petrović, Marina Lekić, Davor Peruško, Vladimir Lazović, Svetlana Savić-Šević, Borislav Vasić, Branislav Salatić, Radoš Gajić, Dejan Pantelić, Branislav Jelenković, **Formation of LIPSS on thin metal films by scanning of low-fluence femtosecond beam during cross-directional scanning**, *Zbornik apstrakata Radionica fotonike 11* (2018), 34, (Konferencija „Jedanaesta radionica fotonike (2018)“; Копоник, 2018-03- 11–14); ISBN 978-86-82441-47-2
- 2_ Marina Lekić, Aleksander G. Kovačević, Suzana Petrović, Davor Peruško, Vladimir Lazović, Svetlana Savić-Šević, Borislav Vasić, Branislav Salatić, Radoš Gajić, Dejan Pantelić, Branislav Jelenković, **Formation of LIPSS on Al/Ti thin metal films by scanning of low-fluence femtosecond beam during multi-pass scanning**, *Zbornik apstrakata Radionica fotonike 11* (2018), 35, (Konferencija „Jedanaesta radionica fotonike (2018)“; Копоник, 2018-03- 11–14); ISBN 978-86-82441-47-2

- 3_ Aleksander G. Kovačević, Suzana Petrović, Davor Peruško, Vladimir Lazović, Borislav Vasić, Radoš Gajić, Branislav Jelenković, **The adsorption of gases during LIPSS formation on thin metal films with femtosecond beam**, *Zbornik apstrakata Radionica fotonike 10* (2017), 25, (Konferencija „Deseta radionica fotonike (2017)“; Kopaonik, 2017- 02-26–03-02); ISBN 978-86-82441-45-8
- 4_ Aleksander G. Kovačević, Jasna L. Ristić-Đurović, Marina Lekić, Branka Hadžić, Dragan Dramlić, Nebojša Romčević, Ljiljana M. Brajović, **Modification of bismuth germanium oxide single crystal properties by femtosecond laser beam**, *Zbornik apstrakata Radionica fotonike 9* (2016), 26, (Konferencija „Deveta radionica fotonike (2016)“; Kopaonik, 2016-03- 02–06); ISBN 978-86-82441-44-1
- 5_ Mileša Srećković, Lazar Kričak, Amy Barr, Magdalena Dragović, Aleksandar Čučaković, Stanko Ostojić, Aleksander G. Kovačević, Nada Borna, **Acoustic-Optic Approach for the Examination of Materials Condition in Objects of Cultural Heritage**, *Book of Abstracts NANT 3* (2016), 32, (3rd International Conference on Modern Methods of Testing and Evaluation in Science; Belgrade, 2016), eds. Sanja Petronić, Nataša Bojković; ISBN 978-86-918415-2-2
- 6_ Aleksander G. Kovačević, Suzana Petrović, Aleksandar Matković, Uroš Ralević, Angela Beltaos, Radoš Gajić, Branislav Jelenković, **Generation of nanoparticles and periodic nanostructures on thin films by femtosecond laser beam**, *Zbornik apstrakata Radionica fotonike 8* (2015), 26, (Konferencija „Osma radionica fotonike (2015)“; Kopaonik, 2015-03- 08–12); ISBN 978-86824-414-1-0
- 7_ Aleksander G. Kovačević, Suzana Petrović, Miloš T. Bokorov, Biljana Gaković, Bojana Bokić, Milan Trtica, Branislav Jelenković, **Periodične strukture na površini tankog sloja Al uzrokovane femtosekundnim laserskim impulsima u UV oblasti**, *Zbornik apstrakata Radionica fotonike 7* (2014), 47, (Konferencija „Sedma radionica fotonike (2014)“; Kopaonik, 2014-03- 10–14); ISBN 978-86824-413-9-7
- 8_ Milovan Jančićević, Mileša Srećković, Branka Kaluđerović, Aleksander G. Kovačević, **Analiza mogućih opisa interakcije procesa u ugljeničnom materijalu izloženog dejstvu laserskih snopova**, *Zbornik apstrakata Radionica fotonike 4* (2011), 25, (Konferencija „Četvrta radionica fotonike (2011)“; Kopaonik, 2011-03- 02–06); ISBN 978-86-8244-129-8
- 9_ Aleksander G. Kovačević, Veljko Zarubica, **Interakcija femtosekundnog snopa sa materijalom tipa PMMA – modifikacija i fabrikacija**, *Zbornik apstrakata Radionica fotonike 4* (2011), 32, (Konferencija „Četvrta radionica fotonike (2011)“; Kopaonik, 2011-03- 02–06); ISBN 978-86-8244-129-8
- 10_ Aleksander Kovačević, Sanja Petronić, Aleksandar Sedmak, Anđelka Milosavljević, Miroslav Popović, **Modifikacija mehaničkih osobina austenitnih materijala – superlegure nikla i železa i nerđajući čelik – nanosekundnim laserskim impulsima**, *Zbornik apstrakata Fotonika 2* (2010), 11, (Konferencija „Fotonika 2010“; Beograd, 2010-04- 21–23); ISBN 978-86-8244-127-4
- 11_ Suzana Polić-Radovanović, Aleksander Kovačević, Mileša Srećković, Dragana Nikolić, Slobodan Bojanić, **Primena lasera u arheologiji i metaparadigma nove muzeologije**, *Zbornik apstrakata Fotonika 2* (2010), 15, (Konferencija „Fotonika 2010“; Beograd, 2010-04- 21–23); ISBN 978-86-8244-127-4

- 12_ Zoran D. Grujić, Marina M. Mijailović, Milan Radonjić, Dušan Arsenović, Marko Nikolić, Aleksander Kovačević, Branislav Jelenković, **Tamne Ramanove rezonance uzrokovane Remzijeovom interferencijom u vakuumskoj rubidijumskoj ćeliji**, *Zbornik apstrakata Fotonika 1* (2009), 20, (Konferencija „Fotonika 2009 – teorija i eksperimenti u Srbiji“; Beograd-Vinča, 2009-04- 22–24)
- 13_ Aleksander Kovačević, Mileša Srećković, Biljana Gaković, Milan Trtica, Branislav Jelenković, **Interakcija ultrakratkih impulsa niske energije sa površinama u fluidom ambijentu**, *Zbornik apstrakata Fotonika 1* (2009), 29, (Konferencija „Fotonika 2009 – teorija i eksperimenti u Srbiji“; Beograd-Vinča, 2009-04- 22–24)

7.16 Уређивање зборника конференција (М66)

Објављено пре претходног реизбора у звање:

- 1_ „Konferencija Sedma radionica fotonike (2014)“ *Zbornik apstrakata*, (2014-03- 10—14) Univerzitet u Beogradu - Institut za fiziku (Beograd, 2014), Aleksander Kovačević, Dragan Lukić, ISBN 978-86-8244-139-7
- 2_ „Konferencija Četvrta radionica fotonike (2011)“ *Zbornik apstrakata*, (2011-03-06) Univerzitet u Beogradu - Institut za fiziku (Beograd, 2011), Aleksander Kovačević, ISBN 978-86-8244-129-8
- 3_ „Konferencija Fotonika 2010 – teorija i eksperiment u Srbiji“ *Zbornik apstrakata*, (2010-04-20) Univerzitet u Beogradu - Institut za fiziku (Beograd, 2010), Aleksander Kovačević, ISBN 978-86-8244-127-4

7.17 Техничка решења (М84)

Објављено пре претходног реизбора у звање

- 1_ Ilija Belić, Darko Vasiljević, Aleksander Kovačević, Bratimir Panić, **Jedinstveni prijemni optički blok za dve talasne dužine laserskog zračenja, 1064 nm i 532 nm**, *Tehničko rešenje kao bitno poboljšanje postojećeg sistema*, (2009-11-30) Univerzitet u Beogradu - Institut za fiziku, reš.br. 1666/1

7.18 Критичка евалуација података, публиковани као интерне публикације или приказани на интернету (М 86)

Објављено пре претходног реизбора у звање

- 1_ Aleksander Kovačević, Bratimir Panić, Zoran Mijić, Mirjana Tasić, Branislav Jelenković, **Using the NI PCI-5124 Digitizer for Atmospheric LIDAR Remote Sensing**, *Kritička evaluacija podataka*, (2010-05-31) National Instruments, <http://sine.ni.com/cs/app/doc/p/id/cs-12882> (pristupljeno 2010-06-27)

ПОТВРДА

Као руководилац пројекта III045016 „Генерисање и карактеризација нано-фотоничних функционалних структура у биомедицини и информатици“ потврђујем да др Александер Ковачевић, научни сарадник Института за физику Универзитета у Београду, руководи пројектним задатком под насловом „Креирање паралелних структура на вишеслојним системима помоћу ласерског зрачења“.



Др Бранислав Јеленковић

Научни саветник

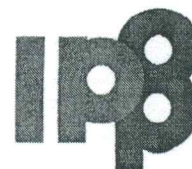
Институт за физику

22.01.2016

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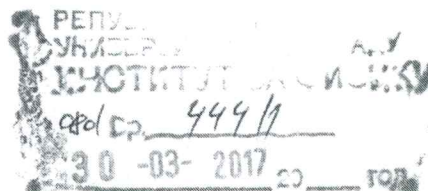
УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ БЕОГРАД

Прегревица 118, 11080 Земун - Београд, Србија
Телефон: +381 11 3713000, Факс: +381 11 3162190, www.ipb.ac.rs
ПИБ: 100105980, Матични број: 07018029, Текући рачун: 205-66984-23



Република Србија

Министарство просвете, науке и технолошког развоја

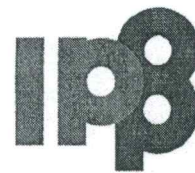


Захтев за рефундацију трошкова у реализацији билатералног пројекта

Билатерални програм са:	Белорусија
Пројектни циклус:	2016/2017
Назив пројекта:	Ласерски индуковане периодичне површинске структуре у диелектрицима и полупроводницима за нанофотонске технологије
Руководилац српског пројектног тима:	Јелена Димитријевић
Евиденциони бр. Пројекта:	451-03-00293/03
НИО којој се уплаћују средства:	Институт за физику, Универзитет у Београду, Прегревица 118, 11080 Београд, Србија

УНИВЕРЗИТЕТ У БЕОГРАДУ
ИНСТИТУТ ЗА ФИЗИКУ БЕОГРАД

Прегревица 118, 11080 Земун - Београд, Србија
Телефон: +381 11 3713000, Факс: +381 11 3162190, www.ipb.ac.rs
ПИБ: 100105980, Матични број: 07018029, Текући рачун: 205-66984-23



	Активност за коју се потражује рефундација	Име и презиме истраживача	Период активности	Износ (РСД)
1	Авионска карта	Александер Ковачевић	22.3.2017.-28.3.2017.	
2	Смештај	Александер Ковачевић	22.3.2017.-28.3.2017.	
3	Пет (5) дневница	Александер Ковачевић	22.3.2017.-28.3.2017.	
4	Осигурање за боравак у иностранству	Александер Ковачевић	22.3.2017.-28.3.2017.	
5	Превоз до аеродрома у иностранству	Александер Ковачевић	22.3.2017.-28.3.2017.	
6	Превоз до радног места у иностранству	Александер Ковачевић	22.3.2017.-28.3.2017.	

Документација у прилогу:

1. потврда о плаћању авионске карте
2. потврда о плаћању смештаја
3. путни налог и обрачун путних трошкова
4. фотокопија обавезног здравственог осигурања у иностранству
5. фотокопија рачуне за превоз до аеродрома и до радног места у иностранству
6. извештај из мењачнице ЕУР/ВУН
7. одлука о слању на службени пут

НАПОМЕНА: Вредности дате у табели у ЕУР су прерачунате у РСД на основу средњег курса народне банке на дан исплате. Вредности дате у табели у ВУН су прерачунате у РСД на основу извештаја из мењачнице.

Београд, 30.3.2017.

Руководилац пројекта

Јелена Димитријевић

Директор/Декан

Александар Богојевић



У Институту за физику, дана 20.03.2017. године донета је

О Д Л У К А

Одобрава се др Александеру Ковачевићу, вишем научном сараднику Института за физику службени пут у Минск (Белорусија) у периоду од 22. до 28. марта 2017. године ради билатералне посете у оквиру билатералног пројекта "Ласерски индуковане периодичне површинске структуре у диелектрицима и полупроводницима за нанофотонске технологије".


Путни трошкови падају на терет билатералног пројекта Србија-Белорусија.


Одобрава се исплата аконтације за дневнице у износу [REDACTED] која терети пројекат ИИИ 45016.

Руководилац пројекта


др Бранислав Јеленковић

Директор
Института за физику


др Александар Богојевић



ПОТВРДА

Као руководилац пројекта билатералне сарадње између Републике Србије и Републике Хрватске, под насловом „Синтеза, модификација и карактеризација комплексних структура у танкослојним системима помоћу ласерског и јонског зрачења“ у периоду 2016-2017 год., потврђујем да је Др Александер Ковачевић, виши научни сарадник, Института за физику, активно учествовао у реализацији наведеног пројекта.

У Београду, 05.11.2018.

Др Сузана Петровић

Suzana Petrović

Научни саветник

Институт за нуклеарне науке Винча



Београд, 19.10.2016.

На основу члана 27. Статута Института за физику 0801 бр. 285/4 од 30. маја 2011. године (измене и допуне на седницама 17.06.2013. год. и 23.12.2014. год.) и важећег Правилника о организацији и систематизацији рада (радних места) на Институту за физику, а у циљу испуњавања законских обавеза Института везаних за рад и безбедност на раду, директор Института за физику доноси следећу

О Д Л У К У

Сви запослени научни радници на Институту за физику се једнозначно распоређују у следеће лабораторије (истраживачке групе):

1. Лабораторија за нелинеарну фотонику
2. Лабораторија за спектроскопију плазме и ласере
3. Лабораторија за холографију, оптичке материјале и фотоничке кристале
4. Лабораторија за квантну и нелинеарну оптику
5. Лабораторија за ласерску интеракцију са материјалима и ласере
6. Лабораторија за биофизику
7. Лабораторија за метаматеријале
8. Лабораторија за фотоакустику
9. Лабораторија за примену рачунара у науци
10. Лабораторија за грануларне материјале
11. Лабораторија за биомиметику
12. Лабораторија за физику материјала под екстремним условима
13. Лабораторија за гасну електронику
14. Лабораторија за нелинеарну физику
15. Лабораторија за истраживања у области електронских материјала
16. Лабораторија за физику нано-композитних структура и био-вибрационих спектра
17. Лабораторија за чврсто стање
18. Лабораторија за графен, друге 2Д материјале и уређене наноструктуре
19. Лабораторија за мезоскопску физику
20. Лабораторија за физику високих енергија
21. Група за гравитацију, честице и поља
22. Лабораторија за физику атомских сударних процеса
23. Лабораторија за физику животне средине
24. Нискофонска лабораторија за нуклеарну физику
25. Лабораторија за астрофизику и физику јоносфере

За сваку од наведених лабораторија се доноси посебна одлука којом се утврђује списак истраживача чланова, даје кратак опис области деловања, и поставља руководиоца лабораторије у наредном једногодишњем периоду.

Ова одлука ступа на снагу даном доношења.



ДИРЕКТОР ИНСТИТУТА ЗА ФИЗИКУ

др Александар Богојевић

Београд, 20.10.2016.

На основу члана 27. Статута Института за физику 0801 бр. 285/4 од 30. маја 2011. године (измене и допуне на седницама 17.06.2013. год. и 23.12.2014. год.), директор Института за физику доноси

О Д Л У К У

У Лабораторију за ласерску интеракцију са материјалима и ласере Института за физику се распоређују следећи истраживачи:

1. др Александер Ковачевић, виши научни сарадник
2. Бранислав Салатић, истраживач сарадник

Област деловања лабораторије:

Физички процеси који се одвијају током интеракције ласерског снопа са материјалом доводе до модификације особина материјала, како на површини, тако и у унутрашњости. Употреба ласера разних типова омогућује достизање различитих ефеката модификације са циљем побољшања особина, формирање нових структура и материјала, који се могу применити у разним областима развоја. Шира област деловања Лабораторије је истраживање у интеракцији ласерских снопова са материјалима и развој нових типова ласера. Ужа област је модификација површине и унутрашњости танких слојева метала, графена, неметала и биоматеријала, као и развој чврстотелних ИЦ импулсних ласера.

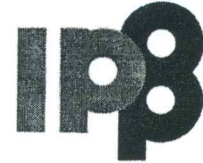
За руководиоца лабораторије се именује др Александер Ковачевић, виши научни сарадник.

Одлука ступа на снагу даном доношења.



ДИРЕКТОР ИНСТИТУТА ЗА ФИЗИКУ

др Александар Богојевић



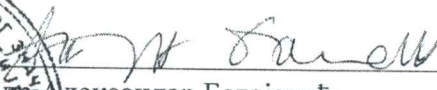
03.10.2022, Београд


ОДЛУКА О ФОРМИРАЊУ ПРОЈЕКТНОГ ТИМА

На реализацији пројекта **101079355 — BioQantSense — HORIZON-WIDERA-2021-ACCESS-03**, који се финансира кроз програм **Horizon Europe** Европске Уније, испред Института за физику у Београду, координатора пројекта, у оквиру **Пројектног тима**, а на основу Grant Agreement-а потписаног са REA, биће ангажована следећа лица:

1. **др Душан Арсеновић, научни саветник**
Principle Investigator (PI)
2. **др Бранислав Јеленковић, научни саветник у пензији**
Project Coordinator (PC)
3. **др Марина Лекић, научни сарадник**
Project Manager (PM)
4. **др Дејан Пантелић, научни саветник у пензији**
Team Member (TM)
5. **др Марија Радмиловић – Рађеновић, научни саветник**
Team Member (TM)
6. **др Светлана Савић – Шевић, виши научни сарадник**
Team Member (TM)
7. **др Бранка Мурић, виши научни сарадник**
Team Member (TM)
8. **др Александер Ковачевић, виши научни сарадник**
Team Member (TM)
9. **др Даница Павловић, научни сарадник**
Team Member (TM)
10. **др Бранислав Салатић, научни сарадник**
Team Member (TM)
11. **Марија Ћурчић, истраживач сарадник**
Team Member (TM)
12. **Филип Крајинић, истраживач приправник**
Team Member (TM)
13. **Тања Пајић, истраживач сарадник, Биолошки факултет УБ**
Team Member (TM)




др Александар Богојевић
Директор, Институт за физику у Београду
Институт од националног значаја за Републику Србију


др Душан Арсеновић
Главни истраживач пројекта BioQantSense



Erasmus+

Visoko obrazovanje:
 Obrazac ugovora o mobilnosti
 Ime učesnika

Mobility Agreement Staff Mobility For Training¹

Planned period of the training activity: from [04/04/2022] till [08/04/2022]

Duration (days) - excluding travel days: 5

The Staff Member

Last name(s)	Kovačević	First name (s)	Aleksander
Seniority ²	Senior	Nationality ³	Serbian
Gender [Male/Female/Undefined]	Male	Academic year	2021/2022
E-mail	Aleksander.Kovacevic@ipb.ac.rs		

The Sending Institution

Name	University of Belgrade	Faculty/Department	Institute of Physics Belgrade
Erasmus code ⁴ (if applicable)	RS BELGRAD02		
Address	Studentski trg 1 11000 Belgrade	Country/ Country code ⁵	RS (Alpha-2) SRB (Alpha-3) 688
Contact person name and position	Jovana Ilić	Contact person e-mail / phone	Jovana.ilic @rect.bg.ac.rs

The Receiving Institution / Enterprise⁶

Name	NOVA University of Lisbon, NOVA School of Science and Technology, FCT - NOVA		
Erasmus code (if applicable)	P LISBOA03	Faculty/Department	Physics Department
Address	Campus da Caparica 2829-516 Caparica, Portugal	Country/ Country code	PT (Alpha-2) PRT (Alpha-3) 620



Erasmus+

Visoko obrazovanje:
Obrazac ugovora o mobilnosti
Ime učesnika

Contact person, name and position	For academic matters: Prof. Ana Cristina Gomes Silva For administrative matters: SAM	Contact person e-mail / phone	For academic matters: acs@fct.unl.pt For administrative matters: div.a.ae.mobilidade @fct.unl.pt
		Size of enterprise (if applicable)	<input type="checkbox"/> <250 employees <input type="checkbox"/> >250 employees

For guidelines, please look at the end notes on page 3.

Section to be completed BEFORE THE MOBILITY

I. PROPOSED MOBILITY PROGRAMME

Language of training: English

<p>Overall objectives of the mobility:</p> <p>Both parties have experience in surface nanostructures. With joint effort, topic will widen to laser-assisted surface nanostructuring with the aim of characterization and functionalization for biological purposes. To discuss about joint international projects.</p>
<p>Training activity to develop pedagogical and/or curriculum design skills: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Added value of the mobility (in the context of the modernisation and internationalisation strategies of the institutions involved):</p> <p>Exchange experiences (teaching, experimenting, team organizing, project proposal writing) in similar areas of expertise of both parties.</p>
<p>Activities to be carried out:</p> <p>Scientific discussions on the most recent results in: laser nanostructuring of surfaces, characterization of surfaces and interaction of nanostructured surfaces with biological surfaces (taking into account both surface corrugations and chemical properties). Analyzing the cases in which functionalized surfaces might show possibility to repel bacteria and/or viruses. First experiments in characterization of surfaces. Labwork with XPS (X-ray photoelectron spectroscopy) with and without monochromator, and SIMS (secondary-ion mass spectrometry). Considering experimenting with SEM (scanning electron microscope) and AFM (atomic force microscopy) for surface analyzing.</p> <p>Discussions on disseminating the knowledge through teaching and supervised experimenting. Talks on experiences in team organizing for knowledge dissemination or for projects preparation/leading.</p> <p>Discussing the possibilities on preparing new joint publications and new project proposals.</p>
<p>Expected outcomes and impact (e.g. on the professional development of the staff member and on both institutions):</p> <p>Publishing papers in peer-reviewed international scientific journals. By exchanging experience, staff members will gain more knowledge in organizing teams for teaching, lab work, writing of project proposals and leading the project. By joining biology and physical sciences / photonics, all staff members will get deeper insight in both areas.</p> <p>The institutions will strengthen mutual collaboration and get added value</p>



and their members will be capable to contribute to the area where biology and physics meet.

II. COMMITMENT OF THE THREE PARTIES

By signing⁷ this document, the staff member, the sending institution and the receiving institution/enterprise confirm that they approve the proposed mobility agreement.

The sending higher education institution supports the staff mobility as part of its modernisation and internationalisation strategy and will recognise it as a component in any evaluation or assessment of the staff member.

The staff member will share his/her experience, in particular its impact on his/her professional development and on the sending higher education institution, as a source of inspiration to others.

The staff member and the beneficiary institution commit to the requirements set out in the grant agreement signed between them.

The staff member and the receiving institution/enterprise will communicate to the sending institution any problems or changes regarding the proposed mobility programme or mobility period.

The staff member
Name: Aleksander Kovačević, PhD, senior research associate
Signature: *Aleksander Kovačević* Date:

The sending institution
Name of the responsible person: Prof. Dr. Ratko Ristić, Vice Rector
Signature: *Ratko Ristić* Date:

The receiving institution/enterprise
Name of the responsible person:
Signature: *Ana Gomes Silva*
Ana Gomes Silva
Digitally signed by Ana Gomes Silva
Date: 2022.03.24 13:01:18 Z
Date:



Subject Extension Approved (P LISBOA03 - RS BELGRAD02)
From <acs@fct.unl.pt>
To 'Predrag Bankovic' <predrag.bankovic@ihtm.bg.ac.rs>, 'Olga Jakšić' <olga.jaksic@ihtm.bg.ac.rs>, 'Jelena Stevanovic' <jelena@nanosys.ihtm.bg.ac.rs>, 'Dana VASILJEVIC-RADOVIC' <dana@nanosys.ihtm.bg.ac.rs>, Aleksander Kovacevic <aleksander.kovacevic@ipb.ac.rs>
Cc <dragana.sebulov@rect.bg.ac.rs>, <bdojnov@chem.bg.ac.rs>
Date 2024-01-30 18:49



Dear all,

I am glad to let you know the agreement is renewed, for both institutes IOP and ICTM, until academic year 2024/2025 (inclusive),

(Below the message from our Erasmus Office).

Kind regards,
Ana

From: DRI - Agreements <div.mie.agreements@fct.unl.pt>
Sent: Tuesday, 30 January 2024 13:12
To: dragana.sebulov@rect.bg.ac.rs; Jovana.ilic@rect.bg.ac.rs
Cc: Prof^a. Ana Cristina Silva <acs@fct.unl.pt>
Subject: Re: Erasmus IIA - Extension and Discontinuation (P LISBOA03 - RS BELGRAD02)

Dear Partner,

I hope to find you well!

Professor Ana Cristina Silva informed us that there was mobility with the Institute for Chemistry, Technology and Metallurgy, which we were not aware of. So, we reconsidered and the agreement (with both institutes: Physics and Chemistry, Technology and Metallurgy) is renewed for 2024/2025.

Best regards,
Ana Dallot

NOVA SCHOOL OF SCIENCE AND TECHNOLOGY | NOVA FCT
Divisão de Mobilidade e Internacionalização do Ensino | *Division of Mobility and Internationalization of Education*
Campus de Caparica | 2829-516 Caparica | Portugal
Telf (direto): +351 21 294 78 20/7
Telf: +351 21 294 83 00 Ext: 12302, 12303, 12304, 12305
E-mail: div.ri.agreements@fct.unl.pt
<https://www.fct.unl.pt/internacional>



<dragana.sebulov@rect.bg.ac.rs> escreveu (segunda, 29/01/2024 à(s) 15:05):

Dear partner,

Greetings from Belgrade! I hope this message finds you well.

I would like to suggest that we sign the agreement in the traditional paper format.

Nevertheless, I understand your decision to exclude the Institute for Chemistry, Technology, and Metallurgy due to the absence of mobilities in recent years.

According to information I have, there were mobilities between NOVA University Lisbon and the Institute for Chemistry, Technology, and Metallurgy in the past, which were deemed highly valuable. I will confirm the precise details tomorrow and kindly request that you reconsider this exclusion.

Thank you in advance for your consideration.

Best regards,

Dragana Šebulov

University of Belgrade | [International Relations Office](#)

Phone: +381 11 3207 452 | dragana.sebulov@rect.bg.ac.rs

Информације о мобилности: <http://www.bg.ac.rs/mobilnost.php>

Study in Belgrade: <http://www.bg.ac.rs/en/study-in-belgrade/home.php>

Incoming Erasmus Mobility Factsheet

UB Mobility Platform: <https://mobion.bg.ac.rs/>

From: DRI - Agreements <div.mie.agreements@fct.unl.pt>

Sent: Thursday, 25 January 2024 18:47

To: jovana.ilic@rect.bg.ac.rs

Subject: Erasmus IIA - Extension and Discontinuation (P LISBOA03 - RS BELGRAD02)

Dear Partner,

Greetings from the NOVA School of Science and Technology of NOVA University Lisbon (P LISBNOVA School of Science and Technology of NOVA University Lisbon (P LISBOA03)!

As a result of the great delay we are experiencing with the process of renewing the Erasmus IIAs via EWP, **we are going to consider our agreement(s) in the area(s) stated below automatically extended for 2024/2025 without further formalities**, until we are able to renew them via EWP:

- Area 0533 Physics - Institute of Physics

(https://www.fct.unl.pt/sites/default/files/acordos-erasmus/plisboa03_0533_rs_belgrad02_final.pdf)

Very soon we will open our Erasmus mobility Call for the academic year 2024-2025, so please note that we will include our IIA(s) with the same terms and conditions as last year's.

If you agree, please do not reply to this message.

However, if you have decided not to renew our agreement(s), please let us know before next 29th January 2024. Otherwise, we will assume that you wish to continue the collaboration with us.

Since there wasn't mobility for the last couple of years (incoming or outgoing), unfortunately, we will not renew the following area(s) of the IIA(s) in:

- Area 0533 Physics - Institute for Chemistry, Technology and Metallurgy

(https://www.fct.unl.pt/sites/default/files/acordos-erasmus/plisboa03_0533_rs_belgrad02_final.pdf)

Thanking you for your understanding and cooperation in these years of collaboration, maybe in the near future we'll have other IIAs between our Schools.

This information applies only to the agreements with NOVA School of Science and Technology, not for all Faculties of NOVA (NOVA University Lisbon - P LISBOA03).

Com os melhores cumprimentos | Best regards

Ana Dallot e Silvia Costa

Divisão de Mobilidade e Internacionalização do Ensino | Division of Mobility and Internationalization of Education
Telf (direto): (+351) 21 294 78 20 Ext: 12305

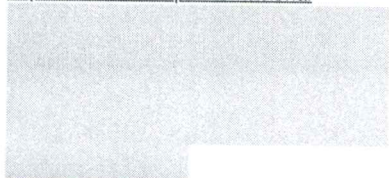
NOVA SCHOOL OF SCIENCE AND TECHNOLOGY | NOVA FCT

Universidade NOVA de Lisboa

Campus de Caparica | 2829-516 Caparica | Portugal

(+351) 21 294 8300

<https://www.fct.unl.pt/internacional>



Erasmus+ Programme

Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobility

Inter-institutional¹ agreement 2020-2022² between programme countries

between New University of Lisbon, Faculty of Science and Technology, FCT
– NOVA, Physics Department ERASMUS CODE: P LISBOA03, Portugal
and the University of Belgrade, ERASMUS CODE: RS BELGRAD02, Serbia ³

The institutions named below agree to cooperate for the exchange of students and/or staff in the context of the Erasmus+ programme. They commit to respect the quality requirements of the Erasmus Charter for Higher Education in all aspects related to the organisation and management of the mobility, in particular the recognition of the credits awarded to students by the partner institution.

A. Information about higher education institutions

Name of the institution (and department, where relevant)	Erasmus code	Contact details ⁴ (email, phone)	Website (eg. of the course catalogue)
NOVA University of Lisbon, NOVA School of Science and Technology, FCT – NOVA, Physics Department Campus da Caparica 2829-516 Caparica, Portugal	P LISBOA03	For academic matters: Prof. Ana Cristina Gomes Silva - acs@fct.unl.pt For administrative matters: International Relations Division - div.ri.agreements@fct.unl.pt div.ri.incoming@fct.unl.pt	https://www.unl.pt/en (University) https://www.fct.unl.pt/en (School)
SRB Univerzitet u Beogradu EN University of Belgrade,	RS BELGRAD02	For academic matters: Academic Coordinator at Institute for Chemistry, Technology and Metallurgy: Predrag Banković / Olga Jakšić - olga@nanosys.ihtm.bg.ac.rs Administrative contact at Institute for Chemistry, Technology and Metallurgy: Anita Lainovic - anita@ihtm.bg.ac.rs	https://mobion.bg.ac.rs/ http://www.bg.ac.rs/files/en/international/FAQs-incoming.pdf http://www.bg.ac.rs/welcomeguide.pdf http://bg.ac.rs/en/education/se-arch-study-programs.php

¹ Inter-institutional agreements can be signed by two or more higher education Institutions

² Higher Education Institutions have to agree on the period of validity of this agreement

³ Clauses may be added to this template agreement to better reflect the nature of the institutional partnership.

⁴ Contact details to reach the senior officer in charge of this agreement and of its possible updates.

Studentski trg 1, 11000 Belgrade, Serbia Acronym UB	For academic matters: Academic Coordinator at Institute of Physics Belgrade: dr Aleksander Kovačević - aleksander.kovacevic@ipb.ac.rs Administrative contact at Institute of Physics Belgrade: Vanja Mihajlović - vanja@ipb.ac.rs	Center for Serbian as a Foreign Language www.learnserbian.fil.bg.ac.rs/
	For administrative matters: - International Relations Office of the University of Belgrade Email: Jovana.ilic@rect.bg.ac.rs Phone: +381113207452	

B. Mobility numbers⁵ for the whole duration of the agreement [The number of mobilities that the UB has specified in the table below refers to the whole duration of the agreement and **not** to each academic year (meaning this number of mobilities for 2020/2021 and the same number for 2021/2022)].

[Paragraph to be added, if the agreement is signed for more than one academic year:] The agreement is established for more than one year. The numbers of staff mobility is for each year.

The partners commit to amend the table below in case of changes in the mobility data by no later than the end of January in the preceding academic year.

Staff mobility:

FROM [Erasmus code of the sending institution]	TO [Erasmus code of the receiving institution]	Subject area code * [ISCED]	Subject area name *	Number of staff mobility periods	
				Staff Mobility for Teaching [total No. of days of teaching periods or average duration *]	Staff Mobility for Training *
P LISBOA03	RS BELGRAD02 Institute for Chemistry, Technology and Metallurgy	0533	Physics		1 x 5 days (Per each year of the agreement) Meaning: 1 x 5 days for 2022
	RS BELGRAD02 Institute of Physics	0533	Physics	1 x 5 days (Per each year of the agreement) Meaning: 1 x 5 days for 2022	1 x 5 days (Per each year of the agreement) Meaning: 1 x 5 days for 2022
RS BELGRAD02 Institute for Chemistry, Technology and Metallurgy	P LISBOA03	- 053	- Physical sciences	/	1 x 5 days
RS BELGRAD02 Institute of Physics		- 053	- Physical sciences	/	2 x 5 days

⁵ Mobility numbers can be given per sending/receiving institutions and per education field (optional*:
<http://www.uis.unesco.org/Education/Pages/international-standard-classification-of-education.aspx>)

C. Recommended language skills

The sending institution, following agreement with the receiving institution, is responsible for providing support to its nominated candidates so that they can have the recommended language skills at the start of the study or teaching period:

Receiving institution [Erasmus code]	Optional: Subject area	Language of instruction 1	Language of instruction 2	Recommended language of instruction level ⁶	
				Student Mobility for Studies [Minimum recommended level: B1]	Staff Mobility for Teaching [Minimum recommended level: B2]
P LISBOA03		Portuguese (for 1 st cycles)	Portuguese and/or English (for 2 nd and 3 rd cycles)	Required: A2 – Portuguese or B1 – English	B2
RS BELGRAD02		Serbian	English	B1	B2

For more details on the language of instruction recommendations, see the course catalogue of each institution:

RS BELGRAD02 - <http://bg.ac.rs/en/education/search-study-programs.php>

D. Additional requirements

[To be completed if necessary, other requirements may be added on academic or organisational aspects, e.g. the selection criteria for students and staff; measures for preparing, receiving and integrating mobile students and/or staff]

[Please specify whether the institutions have the infrastructure to welcome students and staff with disabilities.]

RS BELGRAD02

1. Selection of students and staff of the University of Belgrade (RS BELGRAD02) shall be carried out by the University of Belgrade (RS BELGRAD02) as their sending institution, in a just, objective and transparent manner, with equal opportunities for all candidates by using the online application system: <http://mobion.bg.ac.rs/>.

Selection criteria are published at the following link:
<http://mobion.bg.ac.rs/howtoapply/selectioncriteria>.

2. All students and staff coming to the University of Belgrade (RS BELGRAD02) are required to register through the online application system at: <http://mobion.bg.ac.rs/> by the dates specified in the Calendar 1.a of the Section E of this Agreement.
3. All Erasmus+ KA1 mobility nominations from the University of Belgrade (RS BELGRAD02) must be sent exclusively from the International Relations Office of the UB, duly signed by the Rector, or Vice-Rectors. Those applications and nominations sent directly to host university by candidates or other Faculties/Institutes of the University of Belgrade should not be accepted and International Relations Office of the University of Belgrade should be informed about it. Please note that the applications received through the above manner will not be financially supported by the grant approved under the current project this agreement is subject to.

⁶ For an easier and consistent understanding of language requirements, use of the Common European Framework of Reference for Languages (CEFR) is recommended, see <http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr>

4. Persons with disabilities are asked to visit the following link:
<http://www.bg.ac.rs/en/members/centers/students-with-disabilities.php> .

E. Calendar

- 1.a. Applications/information on nominated students must reach the receiving institution by:
 [* to be adapted in case of a trimester system]

Receiving institution	Autumn term*	Spring term*
P LISBOA03	May 31 st	October 31 st
RS BELGRAD02	Nomination deadline: April 1st Applications by nominated students must reach the receiving institution by: May 1st	Nomination deadline: October 15th Applications by nominated students must reach the receiving institution by: November 1st

- 1.b. Academic calendar:

Receiving institution	Autumn term* [month]	Spring term* [month]
P LISBOA03	September - January	March - July
RS BELGRAD02	/	/

The nominations should be sent to the following email addresses:

when NOVA University of Lisbon, NOVA School of Science and Technology, FCT – NOVA, Physics Department ERASMUS CODE: P LISBOA03 is the receiving institution: div.a.incoming@fct.unl.pt

and when the University of Belgrade (RS BELGRAD02) is the receiving institution:
Jovana.ilic@rect.bg.ac.rs

- The receiving institution will send its decision within 5 weeks.
- A Transcript of Records will be issued by the receiving institution no later than 5 weeks after the assessment period has finished at the receiving HEI.
- Termination of the agreement

This agreement is valid from the date of the last signature and will stay in force for the period mentioned in the heading.

This agreement may be amended or modified by mutual agreement in writing. It may be renewed on the same terms, or on terms as agreed by the two institutions.

In the event of unilateral termination, a written notice of at least one academic year is needed and started activities have to be finished in line with eventually signed documents. Neither the European Commission nor the National Agencies can be held responsible in case of a conflict.

F. Information

1. Grading systems of the institutions

NOVA University of Lisbon, NOVA School of Science and Technology, FCT – NOVA, Physics Department ERASMUS CODE: **P LISBOA03** Information available at:

http://www.fct.unl.pt/sites/default/files/erasmus_incoming/EU_Scale_FCT.pdf

RS BELGRAD02: Grading scale is published at the following website:

<http://bg.ac.rs/files/en/international/Grading-scale-FAQ.pdf>

2. Visa

The sending and receiving institutions will provide assistance, when required, in securing visas for incoming and outbound mobile participants, according to the requirements of the Erasmus Charter for Higher Education.

Information and assistance can be provided by the following contact points and information sources:

Institution [Erasmus code]	Contact details (e-mail, phone)	Website for information
P LISBOA03	Email: div.ri.incoming@fct.unl.pt Tel.: + 351 21 294 78 20/7	https://www.fct.unl.pt/en/student/student-orientation-and-mobility/students-mobility-study-sms
RS BELGRAD02	http://www.bg.ac.rs/en/international/contacts.php http://www.bg.ac.rs/en/international/projects/erasmus-plus.php	http://www.bg.ac.rs/welcomeguide.pdf http://www.bg.ac.rs/files/en/international/Additional%20information%20-%20visa%20travel,%20accommodation%20(1).pdf

3. Insurance

The sending and receiving institutions will provide assistance in obtaining insurance for incoming and outbound mobile participants, according to the requirements of the Erasmus Charter for Higher Education.

The receiving institution will inform mobile participants of cases in which insurance cover is not automatically provided. Information and assistance can be provided by the following contact points and information sources:

Institution [Erasmus code]	Contact details (e-mail, phone)	Website for information
P LISBOA03	Email: div.ri.incoming@fct.unl.pt Tel.: + 351 21 294 78 20/7	https://www.fct.unl.pt/en/student/student-orientation-and-mobility/students-mobility-study-sms
RS BELGRAD02	http://www.bg.ac.rs/en/international/contacts.php http://www.bg.ac.rs/en/international/projects/erasmus-plus.php	http://www.bg.ac.rs/welcomeguide.pdf http://www.bg.ac.rs/files/en/international/Additional%20information%20-%20visa%20travel,%20accommodation%20(1).pdf National Health Insurance Fund: http://www.eng.rfzo.rs/

All students enrolled in **P LISBOA03** are covered by an accident and third party liability insurance.

It is mandatory that Mobility Students and Staff bring:

- European Health Insurance Card for medical assistance (just for people from the European Union's 28 Member States plus Iceland, Liechtenstein, Norway and Switzerland) to access health care services during temporary visits abroad;
- Insurance Health for visitors outside European Union.

4. Housing

The receiving institution will guide incoming mobile participants in finding accommodation, according to the requirements of the Erasmus Charter for Higher Education.

Information and assistance can be provided by the following persons and information sources:

Institution [Erasmus code]	Contact details (e-mail, phone)	Website for information
P LISBOA03	Email: div.ri.incoming@fct.unl.pt Tel.: + 351 21 294 78 20/7	http://www.fct.unl.pt/en/student/student-orientation-and-mobility/students-mobility-study-sms
RS BELGRAD02	http://www.bg.ac.rs/en/international/contacts.php http://www.bg.ac.rs/en/international/projects/erasmus-plus.php	http://bg.ac.rs/files/en/international/Additional%20information%20-%20visa%20travel,%20accommodation%20(1).pdf

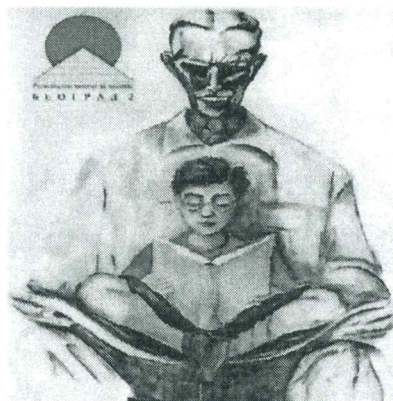
G. SIGNATURES OF THE INSTITUTIONS (legal representatives)⁷

Institution [Erasmus code]	Name, function	Date	Signature ⁸
P LISBOA03	Vice-Rector for International Development Prof. João Amaro de Matos		[Assinatura Qualificada] João Manuel Gonçalves Amaro de Matos Assinado de forma digital por [Assinatura Qualificada] João Manuel Gonçalves Amaro de Matos Dados: 2021.11.04 15:37:11 Z
RS BELGRAD02	Rector Prof. Dr. Vladan Đokić		Vladan Đokić 329881 Digitally signed by Vladan Đokić 329881 Date: 2021.12.10 09:18:41 +01'00'

⁷ The University of Belgrade may only sign hard copies of inter-institutional agreements at present.

⁸ Scanned signatures are not accepted by the University of Belgrade.

Регионални центар за таленте Београд II



ДОДЕЉУЈЕ

Захвалницу

Др АЛЕКСАНДЕРУ КОВАЧЕВИЋУ

Институт за ФИЗИКУ

ЗА

**ДОПРИНОС У РАЗВОЈУ РАДА С
НАДАРЕНОМ И ТАЛЕНТОВАНОМ
ШКОЛСКОМ ПОПУЛАЦИЈОМ У СКЛОПУ
ПРОГРАМСКОГ РАДА ЦЕНТРА ЗА ТАЛЕНТЕ
У ШКОЛСКОЈ 2015/2016. ГОДИНИ**

У Београду,
26. децембар 2016. године

Регионални центар за таленте Београд II



Директор
Никола Срзентић

УНИВЕРЗИТЕТ „УНИОН“

Београд

Број: А 33А-02/10

Датум: 28.09.2010. године

На основу члана 44. тачка 21. Статута Универзитета Унион, дана 16.09.2010. Сенат Универзитета Унион донео је

ОДЛУКУ

О ФОРМИРАЊУ КОМИСИЈЕ ЗА ПИСАЊЕ ИЗВЕШТАЈА О ИСПУЊЕНОСТИ УСЛОВА И ПОДОБНОСТИ ТЕМЕ ЗА ДОКТОРСКУ ДИСЕРТАЦИЈУ

(1) Формира се комисија за писање извештаја о испуњености услова и подобности теме за докторску дисертацију кандидата мр Зорана Фидановског под називом „Аналитичка и нумеричка анализа интеракције ласерског зрачења са материјалом“ у саставу:

1. др Милан Меркле, председник комисије, професор Рачунарског факултета, научна област: Математика-примењена математика.
2. др Станко Остојић, члан комисије, доцент Технолошко-металуршког факултета, научна област: Квантна електроника, Ласерска техника, Физичка електроника, Нумерички прилаз теорији и експерименту у вези са применом квантних генератора.
3. др Александер Ковачевић, члан комисије, научни сарадник Института за физику научна област: Алгоритми неуромских мрежа у ласерској техници, квантној електроници и оптици и Нумеричке методе и примена на проблематику интеракције и пропагације кохерентног зрачења.

(2) Задатак Комисије, у складу са Статутом Универзитета Унион, је да размотри поднету пријаву и да утврди да ли кандидат мр Зоран Фидановски испуњава услове прописане законом и актима Универзитета Унион за одобрење израде дисертације. Комисија је дужна и да оцени научну заснованост предложене теме и њену подобност за докторску дисертацију.

(3) Комисија је дужна да у року од 30 дана достави извештај о испуњености услова и подобности теме за докторску дисертацију, кандидата мр Зорана Фидановског, Сенату Универзитета Унион.

ОБРАЗЛОЖЕЊЕ

Дана 20. септембра кандидат мр Зоран Фидановски поднео је захтев за формирање комисије за писање извештаја о испуњености услова и подобности теме за докторску дисертацију под називом „Аналитичка и нумеричка анализа интеракције ласерског зрачења са материјалом“.

У складу са Статутом Универзитета Унион формира се комисија чији је задатак да испита да ли кандидат мр Зоран Фидановски испуњава законске услове. Комисија испитује и подобност теме за докторску дисертацију. О свему наведеном комисија ће поднети извештај Сенату, на основу кога ће Сенат одлучити о захтеву.

У Београду,
28.09.2010.

Доставити: - члановима комисије,
- кандидату,
- Рачунарском факултету,
- у досије кандидата
- архиви





Subject RE: expiration of the deadline
From department1 <department1@gacr.cz>
To Aleksander Kovacevic <Aleksander.Kovacevic@ipb.ac.rs>
Date 2019-09-09 09:57

Dear Dr. Kovacevic,

I would like to thank you for the review of the project proposal submitted to GACR.

We highly appreciate your willingness and time devoted to the review using your professional knowledge and expertise.

Thank you for your contribution that enables us to maintain objectivity and high international standard of the peer review evaluation.

Should you wish to be remunerated for your review, please fill out the request of payment and all required fields. Make also sure your banking data are correct and complete.

The remuneration will be sent to you on your bank account after the completion of tender (probably at the end of November or beginning of December 2019). Kindly notify your bank that you are expecting a payment from abroad.

We are looking forward to our cooperation in the future.

Sincerely,

Vojteska Hervertova
The Czech Science Foundation

-----Original Message-----
From: Aleksander Kovacevic <Aleksander.Kovacevic@ipb.ac.rs>
Sent: Sunday, September 8, 2019 11:52 PM
To: department1 <department1@gacr.cz>
Subject: RE: expiration of the deadline

Dear Ms. Hervertová,

Just to inform the Department1 of the GAČR that I had completed and finalized the review of the project.

Regards,
Aleksander.

On 2019-08-30 09:39, department1 wrote:

Dear Dr. Kovacevic,

Thank you very much for your e-mail and information.
We are looking forward to receive your peer review.

Yours sincerely,

Vojteska Hervertova
The Czech Science Foundation

-----Original Message-----

From: Aleksander Kovacevic <Aleksander.Kovacevic@ipb.ac.rs>
Sent: Thursday, August 29, 2019 7:18 PM
To: department1 <department1@gacr.cz>
Subject: expiration of the deadline

Dear Ing. Jirmanová,

I appreciate very much kind offer from Dr. Valkarová of the GAČR for the prolongation of the deadline for peer review. It will help the reviewing process. I have made the prolongation at the GAČR site.

Thank you very much,
Aleksander.

--
Dr Aleksander Kovacevic

Institute of Physics, University of Belgrade Pregrevica 118, 11080
Belgrade, Serbia <http://www.ipb.ac.rs/>

--
Dr Aleksander Kovacevic

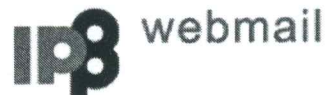
Institute of Physics, University of Belgrade Pregrevica 118, 11080 Belgrade, Serbia <http://www.ipb.ac.rs/>

11/6/2018

Institute of Physics Belgrade Roundcube Webmail :: Thank you for reviewing for Nanotechnology - NANO-106553.R1

Subject Thank you for reviewing for Nanotechnology - NANO-106553.R1

From <nano@iop.org>



Sender <onbehalfof+nano+iop.org@manuscriptcentral.com>

To <Aleksander.Kovacevic@ipb.ac.rs>

Date 2015-05-05 12:00

Dear Dr Kovacevic,

Re: [REDACTED]

Article reference: NANO-106553.R1

Thank you for your report on this Paper, which is being considered by Nanotechnology.

We appreciate the time and effort that you have spent reviewing this manuscript and we are very grateful for your assistance.

We hope that we will be able to call upon you again to review future manuscripts.

Yours sincerely

Danny Turner and Estelle Hartley-McDonald

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Letter reference: ERWPSNFR05

Subject **Re: recenzija**
 From Caslav Lačnjevac <caslav.lacnjevac@gmail.com>
 To Aleksander Kovacevic <Aleksander.Kovacevic@ipb.ac.rs>
 Date 2018-03-19 21:14



Postovani kolega Kovacevic,

Zahvaljujemo Vam se na uradjenoj i poslatoj recenziji rada.
 Vasi komentari ce biti prosledjeni autorima.
 Ono sto treba da znate Vase ime kao recenzenta rada je potpuno zasticeno. Autori radova ne znaju ko im je
 vrsio recenziju rada.
 Vasa recenzija ce biti poslata bez vaseg imena .
 Ja se nadam da cemo imati i dalje saradnju.

S postovanjem,

vd glavni urednik
 prof. dr Caslav Lačnjevac,
 Univerzitet u Beogradu, Pijoprivredni fakultet,
 Beograd, Srbija
editor@idk.org.rs ,
idk@idk.org.rs
 + 381 63 8339 184

2018-03-19 18:47 GMT+01:00 Aleksander Kovacevic <Aleksander.Kovacevic@ipb.ac.rs> :
 Поштовани уредниче,

у прилогу шаљем два фајла: један је рукопис у коме су у оквиру коментара дате смернице за
 унапређење, а други је табела за рецензију са препорукама и коментарима. Било би добро да су
 рецензенти у односу на ауторе анонимни.

Срдачно,
 Александер Ковачевић

On 2018-02-25 21:20, Caslav Lačnjevac wrote:
 Postovani kolega Kovacevic,

U prilogu ovog dopisa saljemo Vam rad sa molbom da izvrsite recenziju
 za casopis Zastita materijala, M24, sajt www.idk.org.rs/casopis [1]
 U prilogu je i tabela za recenziju. Rok za dostavu recenzije je 30
 dana.

Nadam se da cete prihvatiti ovu nasu molbu.

U ocekivanju dalje saradnje,
 s postovanjem,

vd glavni urednik
 prof. dr Caslav Lačnjevac,
 Univerzitet u Beogradu, Pijoprivredni fakultet,
 Beograd, Srbija
editor@idk.org.rs ,

https://mail.ipb.ac.rs/roundcube/?_task=mail&_safe=0&_uid=7&_mbx=2018journals&_action=print&_extwin=1

1/2

idk@idk.org.rs
 + 381 63 8339 184

Links:

[1] <http://www.idk.org.rs/casopis>

Dr Aleksander Kovacevic

Institute of Physics, University of Belgrade
 Pregrevice 118, 11080 Belgrade, Serbia
<http://www.ipb.ac.rs/>



Review History Report

Aleksander Kovačević



From: 1 January 2023

To: 31 December 2023

All dates in GMT

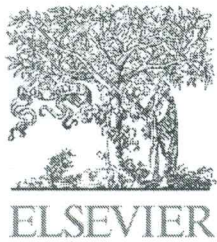
Total journals reviewed for: **1**

Total reviews completed: **2**



Applied Surface Science

2



Review History Report

Aleksander Kovačević



From: 1 January 2023

To: 31 December 2023

All dates in GMT



Applied Surface Science

2 reviews completed

Manuscript title	Revision	Date completed
Self-organized structures in thin film of phase-change material upon femtosecond laser excitation: from periodic ordering to ablation	3	20 March 2023
Self-organized structures in thin film of phase-change material upon femtosecond laser excitation: from periodic ordering to ablation	2	24 February 2023

REVIEW CONFIRMATION CERTIFICATE



We are pleased to confirm that

Aleksander G. Kovačević

has reviewed 2 papers for the following MDPI journals in 2023:

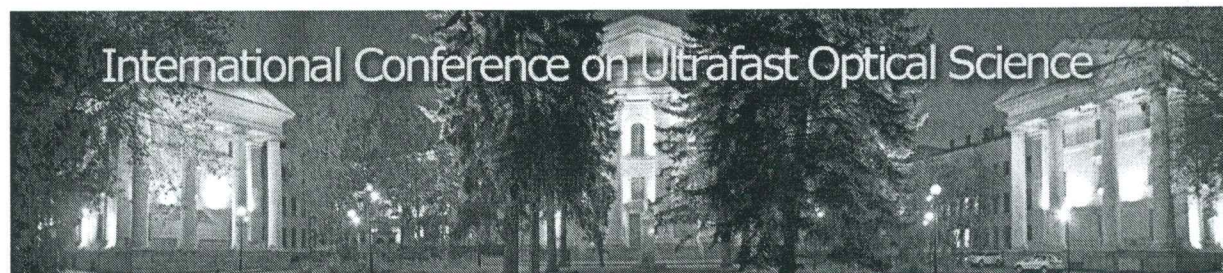
Applied Sciences, Micromachines

A handwritten signature in black ink, reading "S. Tochev".

Stefan Tochev, Chief Executive Officer
4 December 2024



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CERTIFICATE OF ATTENDANCE

This document certifies that:

Aleksander Kovačević

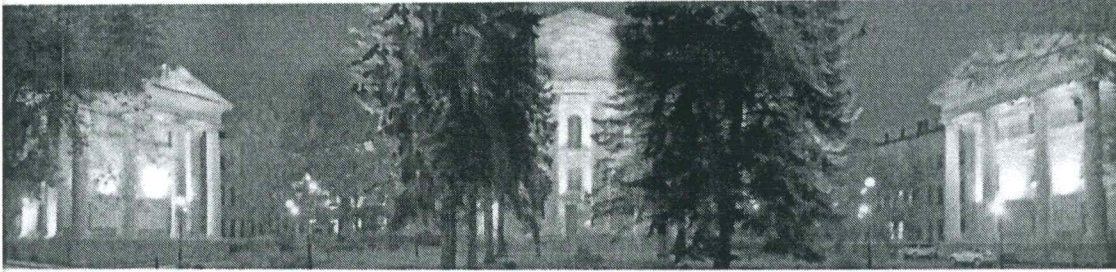
has presented the **invited talk** "*Inducing LIPSS by multi-pass and cross-directional scanning of femtosecond beam over surface of thin metal films*" at the International Conference on Ultrafast Optical Science "UltrafastLight-2018" held in Moscow from October 1st to October 5th, 2018.

A handwritten signature in black ink, appearing to read "Andrey A. Ionin".

Andrey A. Ionin,
Vice-chair of the Conference

October 5th, 2018
Moscow, Russia

Book of Abstracts



International Conference
on Ultrafast Optical Science

UltrafastLight-2018

October 1-5, 2018, Moscow
Lebedev Physical Institute



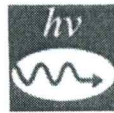
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СПЕЦПОСТАВКА



photonics

International Conference on Ultrafast Optical Science (UltrafastLight-2018), is the broad-scope, annual international symposium dedicated to the most important aspects of ultrafast phenomena in different fields of natural sciences and engineering.

The Conference topics:

1. Radiation and nuclear photonics at high fields
2. Ultrafast phenomena in condensed matter and ionized gases
3. Ultrafast laser nanofabrication and nanophotonics
4. Femtosecond non-linear optics. Filamentation. High field THz generation.
5. Femtosecond laser photobiology and photochemistry.
6. Physics and technology of ultrashort laser pulses and innovative femtosecond laser technology.
7. Femtosecond radiation in spectroscopy and optical frequency metrology.

Website: ultrafastlight.lebedev.ru

Chair - Nikolay Kolachevsky (Lebedev Physical Institute of the RAS),
Vice-chair - Andrey Iomin (Lebedev Physical Institute of the RAS)

I.P. Fedoruk, N.M. Bulgakova, J. Opt. Soc. Am. B 31

M.P. Fedoruk, A.M. Rubenchik, Proc. SPIE 10228

Section 3: Ultrafast laser nanofabrication and nanophotonics

Section Chair: Sergey Kudryashov (ITMO university; LPI), email: sikudr@lebedev.ru

Program committee

Ioanna Faisari (FORTH, Greece)

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Scope

Ultrafast nanostructured light + nanostructured matter

Ultrafast nanophotonics

Ultrafast second-laser nanofabrication

Inducing LIPSS by multi-pass and cross-directional scanning of femtosecond beam over surface of thin metal films

A.G. Kovačević¹, S. Petrović², M. Lekić¹ and B.M. Jelenković¹

¹Institute of Physics, University of Belgrade, Belgrade, Serbia;

²Institute of Nuclear Sciences "Vinča", University of Belgrade, Belgrade, Serbia
e-mail: Aleksander.Kovacevic@ipb.ac.rs

During interaction of femtosecond laser beam with metal surfaces, laser induced periodic nanostructures, LIPSS can be formed, which may improve properties of materials. Having excellent mechanical properties, multilayer thin films, like $5x(Al/Ti)@Si$, are convenient for forming of high quality LIPSS [1] due to their multilayer structure. We exposed the multilayer thin film metal systems $5x(Al/Ti)@Si$ with femtosecond beam by the laser system Coherent Mira 900 in NIR with various scanning configurations. Irradiated samples have been analyzed by Tescan Mira3 SEM. The beam scanning on the surface of the samples with multi-pass and cross-directional scanning configurations with the change of polarization direction. The formation of LIPSS is most probably due to the occurrence of surface plasmon polariton, which leads to the periodic distribution of energy on the sample surface. The orientation of the LIPSS is related to the direction of the beam polarization. During multi-pass scanning, LIPSS maintained its configuration. The preservation of structures occurred to some extent. Depending on the accumulated energy, two forms of LIPSS were generated: "hills", for less accumulation, and "trenches" for greater accumulation. "Hills" are non-ablative, probably are due to the build-up of material and are parallel to the polarization direction. "Trenches" are formed by ablation and are perpendicular to the polarization direction. During cross-directional scanning, LIPSS of orthogonal directions have been generated. The value of the "hills" period is around 360 nm and the width was ~ 285 nm. The values of "trenches" period fluctuate between 320 and 380 nm, while width was between 85 and 45 nm. Proposed mechanism is that, for less accumulated energy, "hills" formed, while more accumulated energy leads to the ablation and formation of "trenches".

The work has been supported by the Ministry of Science, Republic of Serbia, Grant No III45016, OI171038 and OI171005. The authors deeply thank dr. Dejan Panković, dr. Radoš Gajić, both of Institute of Physics, University of Belgrade, for valuable suggestions.

REFERENCES

- [1] A.G. Kovačević, S. Petrović et al., Appl.Surf. Sci. 326 , 91 (2015).
- [2] A.G. Kovačević, S. Petrović et al., Appl.Surf. Sci. 417 , 155 (2017).

Registration of periodical structure by interference of picosec

Z. Kozma¹, Y. Andreeva¹, R. Zakoldaev¹, M. Š. and T. Itina¹

¹Tbilisi University, Saint Petersburg, Russia;
Laboratoire Curien Laboratory, UMR CNRS 5516/UJM/1
kozma@curien.fr

Thin films impregnated by metal salts or nanostructures composite media for registration of periodical structure attractive feature of the sol-gel films is their composition various impurities, including in this way, the aim of the work is a fabrication and optical properties of laser-induced structures impregnated with a silver salt in view of interest in the sample the thin porous SiO_2 film ($h = 300$ nm) deposited on glass substrate was used. Silver salt in an aqueous solution of $AgNO_3$ (0.5M) was used at temperature for 12 hours. Nd:YAG laser beam was used as a laser source. Laser beam pulse width $\tau = 30$ μ s fabricated by laser-induced μ -plasma beams. The beams were overlapped after coating in the sample. Confocal optical system allowed to study of ~ 520 nm. Periodical structures were observed. The number of pulses 100–1000. The mechanism and seems to be combined from photochemical and diffusion spectra show the correlation

The reported study was financial supported by the Russian Federation, research agreement № 1

REFERENCES

- [1] Z. Kozma, Y. Battie, N. Crespo-Monteiro et al., Opt. Express 21(1), 1422 (2013).
- [2] Z. Kozma, N. Crespo-Monteiro, G. Vitran et al., Journal of Materials Chemistry C 2 (31) (2014).
- [3] Z. Kozma, R.A. Zakoldaev, V.V. Koval, M. Š. et al., Optics in Engineering 92, 63 (2017).

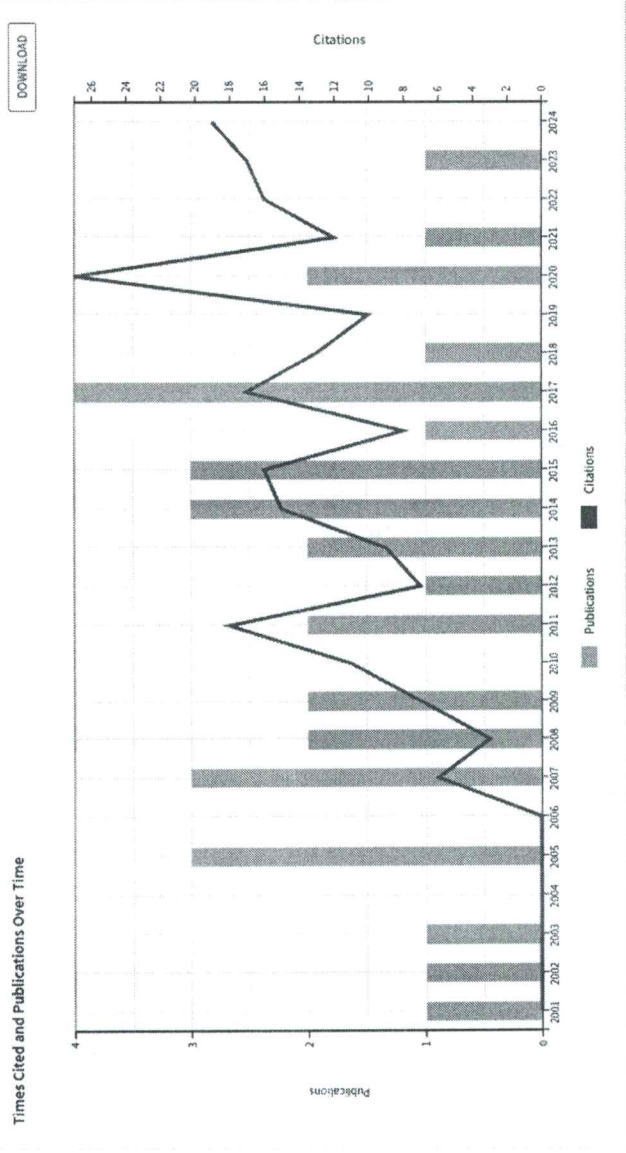
Citation Report

Aleksandar G. Kovacevic (Author)

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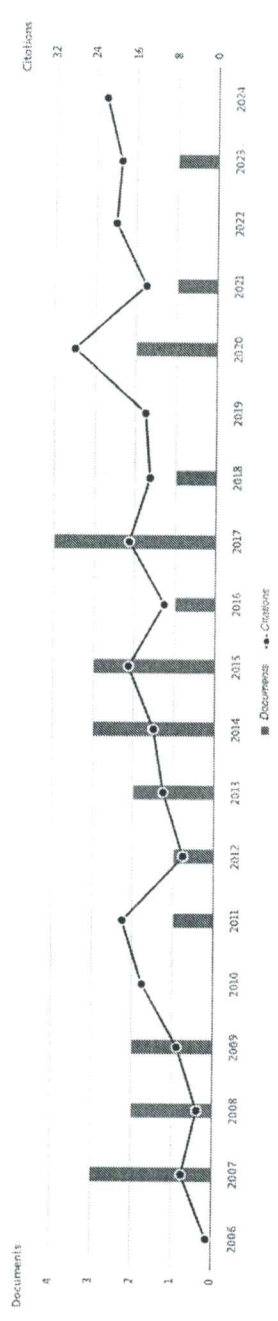
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Total		0	1	6	3	7	14	18	6	10	12	17	10	13	14	28	14	20	19	22	251	
1	Structural properties of femtosecond laser ...	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
2	Effects of static and dynamic femtosecond...	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
3	Holding wetting by laser-induced nanosir...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	5
4	Inducing LIPSS on multilayer thin metal fil...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
5	Inducing subwavelength periodic nanosir...	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3
6	Design of co-existence parallel periodic su...	2017	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	1	6
7	Influence of Nd:sup3+⁴YAG laser ir...	2017	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	4	0	1	8
8	Improvement of magneto-optical quality o...	2017	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	3

Documents	Year	06	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total	
Total		0	1	6	3	7	14	18	6	10	12	17	10	17	13	14	28	14	20	19	22	251	
1	Structural properties of femtosecond laser ...	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
2	Effects of static and dynamic femtosecond...	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	
3	Molding wetting by laser-induced nanostr...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	5	
4	Inducing LIPSS on multilayer thin metal fil...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	
5	Inducing subwavelength periodic nanostr...	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3	
6	Design of co-existence parallel periodic su...	2017	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	2	1	6	
7	Influence of Nd:cup>3+</sup>; YAG laser ir...	2017	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	4	0	1	8	
8	Improvement of magneto-optical quality of...	2017	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	3	
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13	Femtosecond laser induced periodic surfac...	2014	0	0	0	0	0	0	0	0	0	1	4	2	3	1	7	1	2	3	1	25	
14	Damage effects on multi-layer graphene fr...	2014	0	0	0	0	0	0	0	1	1	1	1	1	1	0	3	0	3	2	0	13	
15	Characterization of laser beam interaction...	2013	0	0	0	0	0	0	0	0	2	2	0	1	0	0	1	0	0	1	0	7	
16	Laser shock peening of Ni-155 superalloy of...	2013	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	3	
17	Microstructural changes of Nimonic-263 su...	2012	0	0	0	0	0	0	1	1	4	1	3	0	2	0	1	0	1	0	0	14	
18	High angular and spectral selectivity of pu...	2011	0	0	0	0	0	1	3	2	2	1	0	0	1	1	3	1	1	1	0	17	
19	Microstructure changes of nickel-base sup...	2009	0	0	0	0	0	1	1	3	0	1	0	1	0	0	4	0	0	0	3	14	
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21	Dark Raman resonances due to Ramsey int...	2008	0	0	0	3	4	4	1	1	4	1	0	0	1	3	2	0	1	1	0	26	
22	Interaction of lasers of various types with ...	2008	0	0	0	0	1	2	0	2	0	0	0	1	0	0	1	0	0	0	0	7	
23	Models of interactions of laser beams with ...	2007	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	5	
24	Laser-PMMA interaction and mechanical s...	2007	0	0	1	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	6	
25	Zeeeman coherences narrowing due to Ra...	2007	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
26	Sub-Doppler absorption narrowing in ato...	2005	0	0	1	2	3	4	5	0	0	0	1	0	0	1	1	1	0	1	6	26	
27	Digital control of an iodine stabilized He-N...	2003	0	1	3	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	11	
28	Damages induced by laser beams in organ...	2001	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	6	

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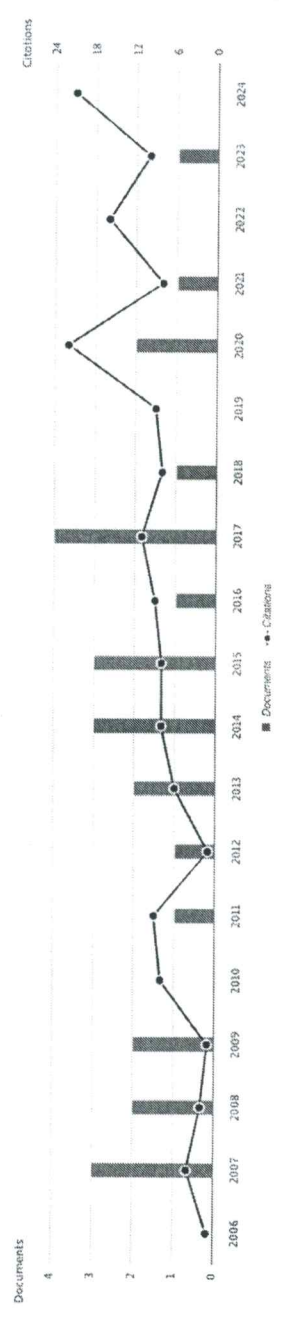
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Total		0	1	4	0	0	0	0	1	6	8	9	11	8	9	22	8	16	10	21	162			
1	Structural properties of femtosecond laser ...	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
2	Effects of static and dynamic femtosecond...	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
3	Molding wetting by laser-induced nanostr...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3	
4	Inducing LIPSS on multilayer thin metal fil...	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	
5	Inducing subwavelength periodic nanostr...	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	
6	Design of co-existence parallel periodic su...	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Influence of $\text{hd-csp}^2\text{-c}/\text{sup}^2\text{-YAG laser ir...}$	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	1	7	
8	Improvement of magneto-optical quality a...	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	

