Списък на публикациите*
на доц.дфн. Вера Маринова

с които участва в конкурс за заемане на академичната длъжност "Професор" по професионално направление 4.1 „Физически науки", научна специалност „Електрични, магнитни и оптични свойства на кондензираната материя", обявен от ИОМТ-БАН в ДВ брой 87 от 31.10.2017 г.

А) Глави от книги и обзорни работи

1. **Vera Marinova**, Shiuan Huei Lin and Hsu Yuh Ken "Two-wave mixing in organic-inorganic hybrid structures for dynamic holography" book chapter in Holographic Materials and Optical Systems, InTech, ISBN 978-953-51-3038-3, Ch 21, p. 479-503 (2017)

2. **Vera Marinova**, Shiuan Huei Lin and Ken Hsu Yuh "Photorefractive Effect: Principle, Materials and Near-Infrared Holography" book chapter in Wiley Encyclopedia of Electrical and Electronics Engineering, invited, EEEE-15-0078 (2016), брой цитати-1

3. **В. Маринова**, Автореферат на дисертация за получаване на научната степен „доктор на физическите науки", м. Фев. 2016 г.

В) Публикации в реферирани списания (общо 36 бр) с импакт фактор и SJR (34 бр)

1. Stefan Petrov, **Vera Marinova**, Shiuan Huei Lin, Chia Ming Chang, Yi Hsin Lin, and Ken Y. Hsu "Large Scale Liquid Crystal Device with Graphene-based Electrodes" Opt. Data Process. Storage, De Gruyter 3:114–118 (2017) Open Access
2. K. Shrestha, D. Graf, **V. Marinova**, B. Lorenz, and C. W. Chu "Weak anti-localization effect due to topological surface states in $Bi_2Se_{2.1}Te_{0.9}$" Journal of Applied Physics 122, 145901 (2017). IF=2.068
3. K. Shrestha **V. Marinova**, D. Graf, B. Lorenz, and C. W. Chu "Large magnetoresistance and Fermi surface study of Sb_2Se_2Te single crystal" Journal of Applied Physics 122, 125901 (2017). IF=2.068
4. K. Shrestha, **V. Marinova,** D. Graf, B. Lorenz, and C. W. Chu "Simultaneous detection of quantum oscillations from bulk and topological surface states in metallic $Bi_2Se_{2.1}Te_{0.9}$" Philosophical Magazine, 97, (20), 1740–1754 (2017). IF=1.505
5. K. Shrestha, **V. Marinova,** D. Graf, B. Lorenz, and C. W. Chu "Quantum oscillations in metallic Sb_2Te_2Se topological insulators" Phys. Rev. B 95, 075102 (2017). IF=3.836, брой цитати-2
6. **V Marinova**, Z F Tong, S Petrov, S H Lin, M S Chen, Y H Lin, Y C Lai, P Yu and K Y Hsu "Liquid crystal cell with graphene electrodes " J. Phys.: Conf. Ser. 794, 012009 (2017). SJR=0.22, брой цитати-1
7. **Vera Marinova**, Shiuan Huei Lin and Ken Yuh Hsu "Electro-optically and all optically addressed spatial light modulator devices based on organic-inorganic hybrid structures" Proc. of SPIE, Vol. 10022 p.100220V-1 (2017) SJR=0.21 , брой цитати-2

**Списъкът не включва публикации, които са използвани при получаване на научните степени „доктор" и „доктор на физическите науки", като и публикации, използвани в конкурса за доцент. В списъка е включен само авторефератa за дфн, в който са обобщени резултати от 35 публикации в списания с импакт фактор и 23 доклада на конференции, отпечатани в пълен текст.*

8. N. Berberova, D. Daskalova, V. Strijkova, D. Kostadinova, D. Nazarova, L. Nedelchev, E. Stoykova, **V. Marinova**, C. H. Chi, S. H. Lin "Polarization holographic recording in thin films of pure azopolymer and azopolymer based hybrid materials" Optical Materials 64, 212-216 (2017) IF=2.238

9. **Vera Marinova**, Ren-Chung Liu, Shiuan Huei Lin, Ming-Syuan Chen, Yi-Hsin Lin and Ken-Yuh Hsu "Near infrared sensitive organic–inorganic photorefractive device" Optical Review 23 (5,) 811–816 (2016) IF=0.600

10. **V. Marinova,** C. H. Chi, Z. F. Tong, N. Berberova, R. C. Liu, S. H. Lin, Y. H. Lin, E. Stoykova and K. Y. Hsu "Liquid crystal light valve operating at near infrared spectral range" Optical and Quantum Electronics, 48, 270 (2016) IF=1.055 , брой цитати-2

11. Marco Caputo, Mirko Panighel, Simone Lisi, Lama Khalil, Giovanni Di Santo, Evangelos Papalazarou, Andrzej Hruban, Marcin Konczykowski, Lia Krusin-Elbaum, Ziya S. Aliev, Mahammad B. Babanly, Mikhail M. Otrokov, Antonio Politano, Evgueni V. Chulkov, Andrés Arnau, **Vera Marinova**, Pranab K. Das, Jun Fujii, Ivana Vobornik, Luca Perfetti, Aitor Mugarza, Andrea Goldoni, and Marino Marsi "Manipulating the Topological Interface by Molecular Adsorbates: Adsorption of Co-Phthalocyanine on Bi_2Se_3" Nano Letters, 16 (6), 3409-14 (2016) IF=12.712 , брой цитати-8

12. **Vera Marinova**, Zhon Fang Tong, Stefan Petrov, Daniela Karashanova, Yi Hsin Lin, Shiuan Huei Lin and Ken Yuh Hsu "Graphene oxide doped PDLC films for all optically controlled light valve structures" Proc. of SPIE, 9970 doi: 10.1117/12.2238508 (2016) SJR=0.21

13. Y-C Lai, P M Rafailov, E Vlaikova, **V Marinova**, S H Lin, P Yu, G C Chi, D Dimitrov, P Sveshtarov V Mehandjiev and M M Gospodinov "Chemical vapour deposition growth and Raman characterization of graphene layers and carbon nanotubes" J. Phys.: Conf. Ser. 682, 012009 (2016) SJR=0.292

14. N. Berberova, D. Nazarova, L. Nedelchev, B. Blagoeva, D. Kostadinova, **V. Marinova** and E. Stoykova "Photoinduced variation of the Stokes parameters of light passing through thin films of azopolymer-based hybrid organic/inorganic materials" J. Phys.: Conf.Ser. 700 (1) 012032 (2016) SJR=0.292

15. Keshav Shrestha, **Vera Marinova**, Bernd Lorenz and Paul C. W. Chu "Shubnikov-de Haas oscillations from topological surface states of metallic $Bi_2Se_{2.1}Te_{0.9}$" Phys. Rev. B 90, 241111(R) (2014) IF=3.836, брой цитати-8

16. M. V. Costache, I. Neumann, J. F. Sierra, **V. Marinova**, S. Roche and S. O. Valenzuela "Fingerprints of Inelastic Transport at the Surface of the Topological Insulator Bi_2Se_3: Role of Electron-Phonon Coupling" Phys. Rev. Lett. 112, 086601 (2014) IF=8.462, брой цитати-34

17. T. Vitova, S. Mangold, C. Paulmann, M. Gospodinov, **V. Marinova** and B. Mihailova "X-ray absorption spectroscopy of Ru-doped relaxor ferroelectrics with a perovskite-type structure" Phys. Rev. B **89**, 144112 (2014) IF=3.836, брой цитати-2

18. Y-C Lai, S-C Yu, P M Rafailov, E Vlaikova, S Valkov, S Petrov, J Koprinarova, P Terziyska, **V Marinova**, S H Lin, P Yu, G C Chi, D Dimitrov, and M M Gospodinov Chemical vapour deposition growth of graphene layers on metal substrates" J. Phys.:Conf.Ser. 558, 01205 (2014) SJR=0.292

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Commun. 45, 222-225 (2013) IF=0.238, брой цитати-1

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26. N. Waeselmann, B. Mihailova, B. J. Maier, C. Paulmann, J. M. Engel, M. Gospodinov, **V. Marinova**, U. Bismayer "Local structural phenomena in pure and Ru-doped $0.9PbZn_{1/3}Nb_{2/3}O_3$-$0.1PbTiO_3$ near the morphotropic phase boundary as revealed by Raman spectroscopy" Phys. Rev. B 83, 214104 (2011) IF=3.836, брой цитати-20
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28. Chun-I Chuang, **Vera Marinova**, Shiuan-Huei Lin, Yu-Faye Chao "Phase-modulated ellipsometry for probing the temperature-induced phase transition in ruthenium-doped lead zinc niobate-lead titanate single crystal" Thin Solid Films 519, 2867-2869 (2011) IF=1.879
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С) Публикации в пълен текст в сборници от международни конференции (18 бр.)

1. Zi Fan Chen, Shiuan Huei Lin,**Vera Marinova** and Ken Yuh Hsu "Three dimensional imaging thought a thin turbid medium using in line digital holographic technique" *Proceeding of Optics and Photonics* OPTIC 2017, Taiwan, Paper No. 2017-THU-S0401-O003 (2017)
2. Keng Chang Hsu, Shiuan Huei Lin,**Vera Marinova**, and Ken Yuh Hsu "Design of see-through edge-lit computer generated hologram for augmented reality" *Proceeding of Optics and Photonics* OPTIC 2017, Taiwan, Paper No. 2017-THU-S0402-O004 (2017)
3. Han Sheng Xu, Shiuan Huei Lin, **Vera Marinova** and Ken Yuh Hsu "Study of volume holographic recording in Irgure 784 doped PMMA photopolymer at 432 nm" *Proceeding of Optics and Photonics* OPTIC 2017 Taiwan, Paper No. 2017-FRI-S0404-O004 (2017)
4. Stefan Petrov, **Vera Marinova**, Shiuan Huei Lin, Yi Hsin Lin, Peichen Yu and Ken Yuh Hsu "Large Scale Liquid Crystal Device with Graphene-based Electrodes" *Proceeding of Optics and Photonics OPTIC* 2017, Taiwan, Paper No. 2017-FRI-S0404-O003 (2017)
5. **Vera Marinova**, Shiuan Huei Lin, Stephan Petrov, Chia Ming Chang, Yi Hsin Lin, and Ken Yuh Hsu "Graphene Based LC Devices for Near Infrared Image Processing" Optics and Photonics International Congress 2017, Information Photonics, 21PM-2-2, Yokohama, Japan (2017)
6. **Vera Marinova**, Shiuan Huei Lin, Zhon Fang Tong, Stefan Petrov, Yi Hsin Lin, Peichen Yu and Ken Yuh Hsu "Graphene based optically addressed spatial light modulator devices" *Proceeding of Optics and Photonics Taiwan* (OPTIC 2016) paper 270874, Taipei 3-5 Dec (2016)
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8. Lun Kuang Lin, Shiuan Huei Lin, **Vera Marinova** and Ken Y. Hsu "In-line Polarization Holographic Memory using PQ/PMMA Photopolymer" *Proceeding of Optics and Photonics Taiwan* (OPTIC 2016), paper 270796, Taipei 3-5 Dec (2016)
9. **Vera Marinova**, Shiuan Huei Lin and Ken Yuh Hsu "Graphene based organic-inorganic holographic elements and devices" *International Workshop on Holography and related technologies* (IWH 2016), Technical Digest p.30-32, Jiaoxi Taiwan, 11-13 Nov. (2016)-invited

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11. Shiuan Huei Lin, Lun Kuang Lin, **Vera Marinova** and Ken Y. Hsu "Optical data storage using volume polarization hologram" *International Workshop on Holography and related technologies* (IWH 2016)*, Technical Digest p.158-159, Jiaoxi Taiwan,* 11-13 Nov. (2016)
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14. Zhong-Fan Tong, Shiuan Huei Lin, **Vera Marinova**, Ming-Syuan Chen, Yi-Hsin Lin, Yi-Chun Lai, Peichen Yu, and Ken Y. Hsu "Graphene-based liquid crystal device fabricated by photo alignment technique" *International Workshop on Holography and related technologies* (IWH 2015), Technical Digest paper We5-P14, Okinawa, Japan, 1-3 Dec (2015)
15. Lun Kuang Lin, Shiuan Huei Lin, **Vera Marinova**, and Ken Y. Hsu "Demonstration of a In-line Polarization Holographic Memory System using PQ/PMMA photopolymer" *International Workshop on Holography and related technologies* (IWH 2015), Technical Digest paper We5-P4, Okinawa, Japan, 1-3 Dec (2015)
16. **Vera Marinova**, Ren C. Liu, Zong F. Tong, Yi C. Lai, Ming S. Chen, Shiuan H. Lin, Yi H. Lin, Peichen Yu, Gou C. Chi and Ken Y. Hsu "Hybrid light valve device with graphene-based electrodes", *Proceeding of Optics and Photonics Taiwan* (OPTIC 2015) paper S0403-O002; 2 pages (2015)
17. **Vera Marinova**, Ren C. Liu, Zong F. Tong, Shiuan H. Lin and Ken Y. Hsu "All–Optically Controlled Hybrid Structure Assembled by $Bi_{12}SiO_{20}$ Crystal and PDLC Layer" *Proceeding of Optics and Photonics Taiwan* (OPTIC 2015) paper P0401-P018; 2 pages (2015)
18. Lun Kuang Lin, Shiuan Huei Lin, **Vera Marinova** and Ken Y. Hsu "Study on Volume Polarization Holographic Recording in PQ/PMMA for Optical Memory" *Proceeding of Optics and Photonics Taiwan* (OPTIC 2015) paper P0401-P001; 2 pages (2015)