

Списък на статиите за участие в конкурса, разделени на показатели А,В и Г според таблицата на ЗРАС

А. Дисертационен труд за присъждане на образователна и научна степен „доктор“

P.B. Santhosh, Effects of Iron oxide nanoparticles on the physical properties of liposomes, дисертация за присъждане на образователна и научна степен, доктор”, (2015), Университет на Люблина, Словения. **50**

В. Научни приноси – хабилитационен труд

(Хабилитационна разширена справка за научните приноси съгласно т. 12 от Забележките в края на Правилника за прилагане на ЗРАСРБ)

Публикации в хабилитационния труд (класификацията по квартали е според Scimago):

B1. Santhosh, P.B.; Tenev, T.; Šturm, L.; Ulrih, N.P.; Genova, J. Effects of hydrophobic gold nanoparticles on structure and fluidity of SOPC lipid membranes. International Journal of Molecular Sciences, 2023, 24, 10226. **25**
ISSN: 14220067; **IF**: 6.2; DOI: 10.3390/ijms241210226; **Q1**
<https://www.mdpi.com/1422-0067/24/12/10226>

B2. Santhosh P.B., Drasler B., Drobne D., Kreft M.E., Kralj S., Makovec D., Ulrih N. P. Effect of superparamagnetic iron oxide nanoparticles on fluidity and phase transition of phosphatidylcholine liposomal membranes. International Journal of Nanomedicine, 2015, 10, 6089-103. **25**
ISSN: 11782013; **IF**: 7.0; DOI: 10.2147/IJN.S89679; **Q1**
<https://pubmed.ncbi.nlm.nih.gov/26491286>

B3. Santhosh P.B., Thomas N., Sudhakar S., Chadha A., Mani E. Phospholipid stabilized gold nanorods: Towards improved colloidal stability and biocompatibility. Physical Chemistry Chemical Physics, 2017, 19, 18494-18504. ISSN: 14639084; **IF**: 3.67; DOI: 10.1039/C7CP03403B; **Q1** **25**
<https://pubs.rsc.org/en/content/articlelanding/2017/cp/c7cp03403b>

B4. Santhosh P.B., Velikonja, A., Perutkova, S., Gongadze, E., Kulkarni, M., Genova, J., Elersic, K., Igljic, A., Kralj-Igljic, V., Ulrih, N.P. Influence of nanoparticle-membrane electrostatic interactions on membrane fluidity and bending elasticity. Chemistry and Physics of Lipids, 2014, 178, 52-62. ISSN: 18732941; **IF**: 3.57; DOI: 10.1016/j.chemphyslip.2013.11.009; **Q2** **20**
<https://pubmed.ncbi.nlm.nih.gov/24309194>

B5. Santhosh P.B., Velikonja, A., Gongadze, E., Igljic, A., Kralj-Igljic, V., Ulrih, N.P. Interactions of divalent calcium ions with head groups of zwitterionic phosphatidyl choline liposomal membranes. Acta Chimica Slovenica, 2014, 61, 215-222. ISSN: 15803155; **IF**: 1.5; PMID: 25125103; **Q3** **15**
<https://pubmed.ncbi.nlm.nih.gov/25125103>

Показател В **110**

- Γ1. Sudhakar S., Santhosh P.B., Mani E. Dual Role of Gold Nanorods: Inhibition and Dissolution of Aβ Fibrils Induced by Near IR Laser. *ACS Chemical Neuroscience*, 2017, 8, 2325-2334. ISSN: 19487193; **IF**: 5.78; DOI: 10.1021/acschemneuro.7b00238; **Q1**
<https://pubs.acs.org/doi/10.1021/acschemneuro.7b00238> 25
- Γ2. Sudhakar S., Kalipillai P., Santhosh P.B., Mani E. Role of surface charge of inhibitors on amyloid beta fibrillation. *Journal of Physical Chemistry C*, 2017, 121, 6339–6348. ISSN: 19327447; **IF**: 4.17; DOI: 10.1021/acs.jpcc.6b12307; **Q1**
<https://pubs.acs.org/doi/10.1021/acs.jpcc.6b12307> 25
- Γ3. Santhosh P.B., Ulrih, N.P. Multifunctional superparamagnetic iron oxide nanoparticles: promising tools in cancer theranostics. *Cancer Letters*, 2013, 336, 8-17. ISSN: 03043835; **IF**: 9.75; DOI: 10.1016/j.canlet.2013.04.032; **Q1**
<https://pubmed.ncbi.nlm.nih.gov/23664890> 25
- Γ4. Santhosh P.B., Genova J., Slavkova Z., Chamati H. Influence of melatonin on the structural and thermal properties of SOPC lipid membranes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2022, 647, 129081. ISSN: 09277757; **IF**: 5.5; DOI: 10.1016/j.colsurfa.2022.129081; **Q1**
<https://www.sciencedirect.com/science/article/abs/pii/S0927775722008366> 25
- Γ5. Santhosh P.B., Genova J. Archaeosomes: New generation of liposomes based on archaeal lipids for drug delivery and biomedical applications. *ACS Omega*, 2023, 8, 1, 1-9. ISSN: 24701343; **IF**: 4.1; DOI: 10.1021/acsomega.2c06034; **Q1**
<https://pubs.acs.org/doi/10.1021/acsomega.2c06034> 25
- Γ6. Santhosh, P.B., Genova, J., Iglič, A., Kralj Iglič, V., Poklar Ulrih, N. Influence of cholesterol on bilayer fluidity and size distribution of liposomes. *Comptes Rendus de L'Academie Bulgare des Sciences*, 73(7), 2020. ISSN: 13101331; **IF**: 0.326; DOI: 10.7546/CRABS.2020.07.07, 947-956; **Q2**
http://www.proceedings.bas.bg/DOI/doi2020_7_07.html 20
- Γ7. Velikonja A., Santhosh P. B., Gongadze, E., Kulkarni, M., Elersic, K., Perutkova, S., Kralj-Iglic, V., Ulrih, N. P., Iglic, A. Interaction between dipolar lipid headgroups and charged nanoparticles mediated by water dipoles and ions. *International Journal of Molecular Sciences*, 2013, 14, 15312-15329. ISSN: 14220067; **IF**: 6.2; DOI: 10.3390/ijms140815312; **Q2**
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3759861> 20
- Γ8. Santhosh P.B., Genova J., Chamati H. Green Synthesis of Gold Nanoparticles: An Eco-Friendly Approach. *Chemistry*, 2022, 4(2): 345-369. ISSN: 26248549; Citescore: 2.5; DOI: 10.3390/chemistry4020026; **Q2**
<https://www.mdpi.com/2624-8549/4/2/26> 20
- Γ9. Santhosh, P.B, Slavkova, Z, Yotova, N, Genova, J. Interaction of melatonin with zwitterionic model lipid membranes. *C R Acad Bulg Sci, JCR-IF (Web of Science)*: 0.321 Q3 (In Print) 15

Научни публикации показател Г 200

Глави от книги

Г10. Sudhakar S., Santhosh P.B. Gold Nanomaterials: Recent Advances in Cancer Theranostics. Advances in Biomembranes and Lipid Self-Assembly, Elsevier publications, Volume 25, 2017, 161-180. ISSN: 24519634; **Scopus IF:** 1.16; **SJR:** 0.304; **Q3** DOI:10.1016/bs.abl.2017.01.003 <https://www.sciencedirect.com/science/article/abs/pii/S2451963417300031> 15

Г11. Santhosh P.B. Gold Nanoparticles-Phospholipid Membrane Interactions. Advances in Biomembranes and Lipid Self-Assembly, Elsevier publications, Volume 34, 2021, 173-206. ISSN: 24519634; **Scopus IF:** 1.16; **SJR:** 0.304; DOI: 10.1016/bs.abl.2021.11.006; **Q4** <https://www.sciencedirect.com/science/article/abs/pii/S2451963421000170> 12

Глави от книги 27

Общо показател Г 227

В допълнение към материалите по конкурса представям една статия, в процес на ревизия с две рецензии, препоръчващи публикуването след корекции:

Babunagappan, K.V.; Seetharaman, A.; Ariraman, S.; **Santhosh, P.B.**; Genova, J.; Ulrich, N.P.; Sudhakar, S. Nanoarchaeosomes: A next-generation thermostable drug carrier for cancer therapeutics. RSC Nanoscale Advances (under revision). **IF 5.598 Q1**