

Proceedings
of 24th International Competition
"First Step to Nobel Prize in
Physics"
(FSNPP 2016)

Organizer:
Institute of Physics PAS
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Prizes and Honorable Mentions in the International Competition First Step to Nobel Prize in Physics 2016

AWARD

1. **Huseyin Kutluay Cakadur, TURKEY**, Investigation of polarization dependent magneto-optical properties of DNA - magnetic liquid mixture, p p. 4-31
2. **Kun-Woo Song, THAILAND**, The kinematic of a falling *Dipterocarpus Alatus* seed, pp. 32- 36

HONOURABLE MENTIONS

CATEGORY: RESEARCH PAPERS (All the honourable mentions in this category are equivalent)

3. **David Ackerman, ISRAEL**, Dynamics, prediction and preventing the phenomenon of "frost heave" at the design and building stages in regions of permafrost, pp. 37-62
4. **Gulce Afacan, TURKEY**, Lithium-ion battery production using new generation nanomaterials by electrospinning method, pp. 63-88
5. **Egemen Akar, TURKEY**, Developing single atom thickness graphene based electrode for bended or curved electronic devices, pp. 89-100
6. **Mohanned Yoosef Aljboor, ISRAEL**, Freezing process of porous media in spectrum of the temperatures, pp. 101-125
7. **Cenanda Ra'ifan Arido, INDONESIA**, The difference of modulus Young and its effect to transmission rate in spider web, pp. xx-xx
8. **Can Goksal, TURKEY**, Epigenetic investigation of antibiotic-tolerant persister wake-up chronic infection mimicking conditions, pp. xx-xx
9. **Kim Seung-Rae, Lee Joong-woo, Park Hyo-chol, REPUBLIC OF KOREA**, On the Glug-Glug phenomenon of incompressible fluid, pp. xx-xx
10. **Or Haim Liebembuk, ISRAEL**, Planning of electrostatic lens in ion map imaging system: experiment and simulation, , pp. 187-209
11. **Adam Pahlavan, USA**, Modeling virtual electrodes using biophysics, pp. 210-232
12. **Nitsan Gusty Sheinberg, ISRAEL**, Model of the ice lenses formation in freezing porous media, pp. 233-256

13. İlayda Sirbaş, TURKEY, A new eco-friendly method for increasing blast and impact resistance of concrete buildings, pp. 257-283

14. Mehmet Bora Turan, Utku Budak, TURKEY, Organic phosphor-conversion white light emitting diode, pp. 284-293

CATEGORY: CONTRIBUTIONS (All the honourable mentions in this category are equivalent)

15. Natasha Sarah Abrams, USA, Galaxy morphology dependence on mass and luminosity, pp. 294-306

16. Kangjia Cai, P.R.CHINA, The mechanism of blender lift, pp. 307-314

17. Yosi Kohen Kutucu, TURKEY, "ALTERNA-TESLA" alternative energy bag that can store energy from renewable resources, pp. 315-333

18. Yaacov Shitrit, ISRAEL, FERMIS - fire event remote management information system, pp. 334-454

19. Taiki Takahashi, JAPAN, Extracting the energy of thermal radiation from input electric power, pp. 455-469

20. Onat Yapici, TURKEY, Sound insulation panel design with selective frequency and airflow, pp. 470-502

CATEGORY: INSTRUMENTS (All the honourable mentions in this category are equivalent)

21. Oguz Baykut, TURKEY, Measuring viscosity by using Stokes-Einstein equation, pp. 503-514

22. Rifat Birmizrahi, TURKEY, Alternative communication with solar-laser walky talky, pp. 515-530

23. Zeynep Karacan, Hatice Sena Türetken , TURKEY, Multi-purpose new generation portable pocket notebook, cell phone charging device "FIVE IN ONE", pp. 531-550

24. Ilker Rodrig, Emre Eros Kohen , TURKEY, High efficiency vertical axis wind turbine "3D WIND GENERATOR", pp. 551-573

25. Yusuke Sugimoto, JAPAN, Dynamics of exercise ball, pp. 574-579

26. Ece Yücer, TURKEY, Obtaining drinkable water with new generation technology for a sustainable world "SILVER NANO-TECH PURIFICATION", pp. 580-596