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Educations

1) Ph.D, ---, Photonics, Shahid Beheshti University

Teaching Course

1) , B.Sc

2) , M.Sc

Papers in International Journals

1) Siahpoush Vahid, Amirhamzeh Tafreshi Mohammad, Sobhanian Samad, Khorram Sirous, 2005/06/20, Adaptation of Sing Lee's model to the Filippov type plasma focus geometry, *Plasma Physics and Controlled Fusion*, 47, 1065-1075

2) Siahpoush Vahid, Sondergaard Thomas, Jung Jesper, 2012/02/01, Green's function approach to investigate the excitation of surface plasmon polaritons in a nanometer-thin metal film, *Physical Review B - Condensed Matter and Materials Physics*, 85, 075305

3) Sondergaard Thomas, Siahpoush Vahid, Jung Jesper, 2012/08/29, Coupling light into and out from the surface plasmon polaritons of a nanometer-thin metal film with a metal nanostrip, *Physical Review B - Condensed Matter and Materials Physics*, 86, 085455

4) Siahpoush Vahid, Shokri Babak, 2014/02/01, Numerical investigation of coupling efficiency between a magnetic line dipole emitter and surface plasmon polariton modes of a nanometer thin metallic film, *Optics Communications*, 313, 315-320

5) Siahpoush Vahid, Shokri Babak, 2016/01/27, Change of radiation pattern in a plasma monopole antenna, *Waves in Random and Complex Media*, 26, 328-338

6) Soltanmoradi Elmira, Shokri Babak, Siahpoush Vahid, 2016/03/01, Study of electromagnetic wave scattering from an inhomogeneous plasma layer using Green's function volume integral equation method, *Physics of Plasmas*, 23, 033304

7) Piralaee Mina, Asgari Asghar, Siahpoush Vahid, 2016/11/01, Modeling and optimizing the performance of plasmonic solar cells using effective medium theory, *PHYSICS LETTERS A*, 381, 489-493

8) Siahpoush Vahid, 2016/11/07, Pinch Current Limitation in Sahand Plasma Focus, *JOURNAL OF FUSION ENERGY*

9) Khoubarfarain Doust Somayeh, Siahpoush Vahid, Asgari Asghar, 2016/11/30, The Tunability of Surface Plasmon Polaritons in Graphene Waveguide Structures, *Plasmonics*

Presented Papers in International Conferences

Preliminary experimental studies and modeling of Surface plasmon resonance-based biosensors, 2015/05/25, 2015/05/26 Sohrab, Siahpoush Vahid, ANNUAL RIAPA MEETING ON LOW DIMENSIONAL SYSTEMS, poster presentation, brief article, 1) Nikniazi Arash, Ahmadi Kandjani

2) Nikniazi Arash, Ahmadi Kandjani Sohrab, Siahpoush Vahid, Rashidi Mohammadreza, Naghsara Hamid, Fathi Farzaneh, Ranjbar Farideh, Proceedings of the 6th International Conference on Nanostructures (ICNS6), poster presentation, brief article, Experimental investigation and simulation of surface plasmon resonance biosensor with human serum albumin for small drugs detection, 2016/03/07, 2016/03/10

Presented Papers in National Conferences

- 1) Sadeghi Babak, Siahpoush Vahid, Ahmadi Kandjani Sohrab, The 2nd Iranian Nanomedicine congress, poster presentation, brief article, Localized Heating in Skin Subcutis Layer with Plasmonic Nanoparticles, 2016/09/27, 2016/09/29
- 2) Soltanmoradi Elmira, Siahpoush Vahid, Shokri Babak, The second Conference of Engineering and Physics of Plasmas, poster presentation, complete article, Study the Efficiency of Green's Function Integral Equation Method for Analyzing the Propagation Properties of Electromagnetic Wave in Plasma, 2014/05/22, 2014/05/23
- 3) Khoobafarin Doost Somayeh, Asgari Asghar, Siahpoush Vahid, 21st Iranian Conference on Optics and Photonics and 7th Iranian Conference on Photonics Engineering, announcer, brief article, The Effect of Electron - Phonon Scattering on Propagation of SPP in Double Graphene Layers Structure, 2015/01/13, 2015/01/15
- 4) Mohammadi Mohammad Ali, Kermani Mahdi, Siahpoush Vahid, The 3rd Conference of Engineering and Physics of Plasmas, announcer, complete article, Experimental Study Of Current Sheath Velocity With Different Inductance In Sahand Plasma Focus Device, 2015/05/21, 2015/05/22
- 5) Siahpoush Vahid, The 3rd Conference of Engineering and Physics of Plasmas, announcer, complete article, Investigation of the effect of gas pressure on the energy transfer process in Sahand plasma focus, 2015/05/21, 2015/05/22
- 6) Jafari Rahileh, Siahpoush Vahid, Ahmadi Kandjani Sohrab, The 3rd Conference of Engineering and Physics of Plasmas, poster presentation, complete article, Investigation of metal nanoparticles thermoplasmonic effect in biological tissue, 2015/05/21, 2015/05/22
- 7) Farshid Elnaz, Siahpoush Vahid, The 3rd Conference of Engineering and Physics of Plasmas, poster presentation, complete article, Simulation of Microwaves scattering from a Conducting plane covered with an inhomogeneous plasma layer, 2015/05/21, 2015/05/22
- 8) Soltanmoradi Elmira, Siahpoush Vahid, Shokri Babak, The 3rd Conference of Engineering and Physics of Plasmas, poster presentation, complete article, Study the Propagation Properties of Electromagnetic Waves in Inhomogeneous collisional Plasma slab with Green's Function Volume Integral Equation Method, 2015/05/21, 2015/05/22
- 9) navayebaghban Naeimeh, Asgari Asghar, Siahpoush Vahid, The 4th Iranian conference on optics & laser engineering, poster presentation, complete article, Investigation of Spp in Graphene based cylindrical waveguide, 2015/09/01, 2015/09/03