Nafiseh Sharifi

Assistant Professor

College: faculty of Physics

Department: Laser and Photonics

Education

Degree	Graduated in	Major	University
BSc		Atomic and molecular physics	Alzahra University
MSc		Solid State Physics	Sharif University of Technology
Doctoral		Nanotechnology - NanoPhysics	Sharif University of Technology
Post Doctoral		Nanotechnology - Nanophysics	Sharif University of Technology

Papers in Conferences

1. F. Esmaeilzade Kalantari, N. Sharifi ,Comparison of Spin-coated and Spray Coated Active Layer in Perovskite Solar Cells ,The 7th International Conference on Nanostructures (ICNS7) ,2018.
2. Z. Kheikhah, N. Sharifi ,Synthesis and Characterization of Ag/N-doped Reduced Graphene Oxide (Ag/N-RGO) Nanocomposites for Sensor Applications ,The 7th International Conference on Nanostructures (ICNS7) ,2018.
3. S. Fallahi, N. Sharifi, H. A. Rafieipour ,An electrochemical nanobiosensor for early detection of breast cancer biomarker miRNA-21, using methylene blue as redox indicator, graphene oxide and polyaniline ,The first international congress of Iranian ,2017.
4. F. Esmaeilzade Kalantari, N. Sharifi،Fabrication of Investigation of Photovoltaic Properties of Provskite Solar Cells: Spin-Coated and Sprayed Pyrolysis Blocking Layers،Conference on Nanostrcutured Solar Cells (NSSC۹۶)،۲۰۱۷.
5. K. Heidarian, M. Almasi Kashi, N. Sharifi, Z. Kheirkhah،Synthesis of Reduced Graphene Oxide/Silver Nanocomposites Using Tribulus Terrestris Extract for Detection of Hydrogen Peroxide،Annual Physics Conference،۲۰۱۷.
6. F. Hasanzade, N. Sharifi, M. Zahedifar،Electrochemical Comparison of Spin- and Dip-coated TiO۲ Blocking Layers in Nanostructured Solar Cells،The ۶th International Conference on Nanostructures (ICNS۶)،۲۰۱۶.
7. N. Aeineh, A. Behjat, N. Sharifi،Optimization of Photoanode in Provskite Solar cells Using SiO۲ Nanoparticles،Annual Physics Conference،۲۰۱۶.
8. S. Falahi, N. Sharifi, M. J. Safikhani،Environmental Friendly Reduction of Graphene Oxide and Subsequent in Situ Decoration with Silver Nanoparticles for Nanosensors،Annual Physics

Conference،۲۰۱۶.
9. F. Hasanzade, N. Sharifi, M. Zahedifar ,Electron Recombination Study of TiO2 Compact Layers for Solid-States Solar Cells ,Hybrid and Organic Photovoltaics Conference (HOPV2015) ,2015.
10. N. Sharifi, F. Hasanzade, M. Zahedifar ,TiO2 Blocking Under-layer in Nanostructured Solar Cells ,Asian Nano Forum Congress- ANFC 2015 ,2015.
11. F. Hasanzade, N. Sharifi, M. Zahedifar،The Effect of Spin- and Dip-coating on Hole Defects of Blocking Layer،Conference on Nanostrcutured Solar Cells (NSSC۹۴)،۲۰۱۵.
12. N. Aeineh, N. Sharifi, A. Behjat،Investigation the Effect of Silver Nanoparticles on Perovskite Solar Cells،Conference on Nanostrcutured Solar Cells (NSSC۹۴)،۲۰۱۵.
13. N. Sharifi،Study of Optical Absorption in Dye-sensitized Solar Cells،The ۲۱st Iranian Conference on Optics and Photonics and the Seventh Iranian Conference on Photonics Engineering and technology،۲۰۱۵.
14. Afshin Sadeghi, Nafiseh Sharifi ,Plasmonic Effect of Silver Spherical Nanostructured Array on Light Absorption in Two- and Four-Terminal Perovskite/Si Tandem Solar Cells ,The 8th International Conference on Nanostructures (ICNS8) ,Tehran ,2020.
15. N. Sharifi, A. Dabirian and N. Taghavinia ,Plasmonic Dye-Sensitized Solar Cells Using Agglomerated Core-Shell Au-SiO2 Nanoparticles ,The 5th International Conference on Nanostructures (ICNS5) ,2014.
16. N. Sharifi, F. Hasanzade, M. Zahedifar،Fabrication and Characterization of TiO۲ Blocking Under-Layer in Perovskite Solar Cells،Conference on Nanostrcutured Solar Cells (NSSC۹۳)،۲۰۱۴.
17. M. Malekshahi Byranvand, N. Taghavinia, A. Nemati Kharat, N. Sharifi and A. Dabirian،Synthesis of Silver-Silica Nanostructures for Photon Management in Dye-sensitized Solar Cells،Conference on Nanostrcutured Solar Cells (NSSC۹۲)،۲۰۱۳.
18. N. Sharifi, N. Taghavinia and A. Irajizad ,Cobalt-based and Iodine-based Electrolytes in Dye-sensitized Solar Cell ,The 4th International congress on Nanoscience and Nanotechnology (ICNN2012) ,2012.
19. N. Sharifi, N. Taghavinia ,Freestanding Scattering Hollow Silver Spheres Prepared by a Facile Sacrificial Templating Method and Their Application in Dye-sensitized Solar Cells ,The 4th International Conference on Nanostructures (ICNS4) ,2012.
20. N. Sharifi, N. Taghavinia, A. Irajizad ,Application of Nobel Metals in Dye-sensitized Solar Cells: Near Field and Far Field", Winter College on Optics: Advances in Nano-Optics and Plasmonics ,The Abdus Salam International Centre for Theoretical Physics (ICTP) ,2012.
21. N. Sharifi, N. Taghavinia and A. Irajizad،Photon Management in Dye-sensitized Solar Cell Using Metallic Structures،Nanostructured Solar Cells Conference (NSSC۹۱)،۲۰۱۲.
22. A. Khoshroo, M. Mazlum Ardakani, N. Taghavinia and N. Sharifi،Investigation of the effect of fluorene on Photocatalytic effect of Titanium Dioxide in Dye-sensitized Solar Cells،Nanostructured Solar Cells Conference (NSSC۹۱)،۲۰۱۲.
23. N. Sharifi, N. Taghavinia and A. Irajizad ,Cobalt-based and Iodine-based Electrolytes in Dye-sensitized Solar Cell ,The 4th International congress on Nanoscience and Nanotechnology (ICNN2012) ,2012.
24. N. Sharifi, N. Taghavinia and A. Irajizad،Photon Management in Dye-sensitized Solar Cells Using Light Scattering Layer: Silver or Titanium Dioxide،Annual Physics Conference،۲۰۱۲.
25. N. Sharifi, S. Dadgostar, N. Taghavinia, A. Irajizad ,Hollow Silver Spheres Prepared by a Facile Sacrificial Templating Method ,International Congress on Nanoscience and Nanotechnology (ICNN2010) ,2010.
26. N. Sharifi, N. Taghavinia, A. Irajizad ,Comparison of the Optical Effect of Gold and Silver Nano-islands on the Sensitizer for Application in Dye-sensitized Solar Cells ,International Conference on Nanoscience and Technology (ICN+T2010) ,2010.
27. N. Sharifi, N. Taghavinia, A. Irajizad ,Enhanced Conversion Efficiency in Dye-sensitized Solar Cell by using Titanium as a Reflecting Layer ,18th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-18) ,2010.

28. N. Sharifi, N. Taghavinia, A. Irajizad ,Plasmonic Nanoparticles as a light Harvesting in Dye-sensitized Solar Cells ,Hybrid and Organic Photovoltaic(HOPV2010) ,2010.
29. N. Sharifi, N. Taghavinia ,Nanostructured silver fibers: Facile synthesis based on natural cellulose and application to carbon composite electrode for oxygen reduction ,3ed Conference on Nanostructures (NS2010) ,2010.
30. Z. Hosseini, N.Taghavinia, N. Sharifi, M. Rahman, and F. Tajabadi ,Evaluation of a High Conductivity TiO2/Ag Fibrous Electrode with EIS Measurements ,Quantsol 2010 Winter Workshop ,2010.
31. N. Sharifi, N. Taghavinia, A. Irajizad ,Enhanced Absorption of N719 dye in the presence of plasmonic nano-islands ,Summer School on Plasmonic 2009 (SSOP2009) ,2009.
32. N. Sharifi, N. Taghavinia ,Synthesis and characterization of silver nanofibers using cellulose fibers as templates ,2nd Conference on Nanostructures (NS2008) ,2008.
33. Z. Hosseini, M. Chavoshi, N. Sharifi, N. Taghavinia ,Electrophoretic deposition of titnia nanoparticles on silver fibres ,2nd Conference on Nanostructures (NS2008) ,2008.
34. N. Sharifi, N. Taghavinia ,The growth of silver nanoparticles and coating on fibers and surfaces ,The Second Nanotechnology Student Conference ,2007.
35. N. Sharifi, N. Taghavinia،The growth and characterization of nanometric silver islands on glass fibers using top-down method،Annual Physics Conference،۲۰۰۷.
36. N. Sharifi, N. Taghavinia،The growth of silver nanoparticles and fabrication of nanometric islands on glass substrate،Eighth Conference of Condensed Matter،۲۰۰۷.
37. N. Sharifi, N. Taghavinia ,Conductive silver fibers and nanofibers by silver reduction on the surface ,International Conference on Nano-Materials for Electronics (ICNME) ,Puna ,2006.
38. N. Sharifi, N. Taghavinia ,Synthesis and characterization of silver nanoparticles through wet chemical methods ,International Congress on Nanoscience & Nanotechnology (ICNN) ,2006.
39. احمد عباسی دشتکی,سیدمحمدباقر قریشی,نفیسه شریفی،بهینه سازی چگالی نقص لایه های مختلف سلول خورشیدی پروسکایتی بر پایه قلع جهت افزایش بازدهی به وسیله نرم افزار اسکپس،سی‌امین کنفرانس اپتیک و فوتونیک ایران و شانزدهمین کنفرانس مهندسی و فناوری فوتونیک ایران،۱ - دامغان،۲۰۲۴ ۰۱ ۲۹ .
40. پریسا کریمی مونه,نفیسه شریفی،اثر پروسکایتهای هالیدی مبتنی بر متیل آمونیوم بر عملکرد سلول خورشیدی با ساختار FTO/SnO۲(ETL)/perovskite/Cu۲O(HTL)/carbon،سی‌امین کنفرانس اپتیک و فوتونیک ایران و شانزدهمین کنفرانس مهندسی و فناوری فوتونیک ایران،۱ - دامغان،۲۰۲۴ ۰۱ ۲۹ .
41. پریسا کریمی مونه,نفیسه شریفی،مقایسه سلولهای خورشیدی پروسکایتی هالیدی مبتنی بر سزیم شامل لایه های Cu۲O،سی‌امین کنفرانس اپتیک و فوتونیک ایران و شانزدهمین کنفرانس مهندسی و فناوری و SnO۲ انتقال دهنده بار فوتونیک ایران،۱ - دامغان،۲۰۲۴ ۰۱ ۲۹ .
42. پریسا کریمی مونه,نفیسه شریفی،اثر پروسکایتهای هالیدی مبتنی بر متیل آمونیوم بر عملکرد سلول خورشیدی با ساختار FTO/SnO۲(ETL)/perovskite/Cu۲O(HTL)/carbon،سی‌امین کنفرانس اپتیک و فوتونیک ایران و شانزدهمین کنفرانس مهندسی و فناوری فوتونیک ایران،۱ - دامغان،۲۰۲۴ ۰۱ ۲۹ .
43. احمد عباسی دشتکی,سیدمحمدباقر قریشی,نفیسه شریفی،مطالعه¬ی تغییرات چگالی نقص سلول خورشیدی پروسکایتی بر پایه¬ی سرب به وسیله¬ی نرم¬افزار SCAPS-1d،۲۸ ۰۸ ۲۰۲۳ . کنفرانس فیزیک ایران،۱ - اصفهان
44. پریسا کریمی مونه,نفیسه شریفی،مطالعه سلول های خورشیدی با لایه های جاذب پروسکایتی تمام معدنی و آلی معدنی حاوی قلع و ید: SCAPS-1D،۲۸ ۰۸ ۲۰۲۳ - اصفهان،۱۴۰۲ . کنفرانس فیزیک ایران
45. زهرا مخلص ابادی فراهانی,پریسا کریمی مونه,نفیسه شریفی،ساخت و مشخصه یابی پروسکایت نقطه کوانتومی به هدف کاربرد در لایه جاذب نور سلولهای خورشیدی،دومین کنفرانس بین المللی کاربرد مواد و ساخت CsPbBr۳ پیشرفته در صنایع،۱ - تهران،۲۰۲۲ ۰۷ ۲۰ .
46. پریسا کریمی مونه,زهرا مخلص ابادی فراهانی,نفیسه شریفی،اثر چگالی نقص بر عملکرد سلول خورشیدی مطالعه شبیه سازی،بیست وهشتمینکنفرانس اپتیک و فوتونیک ایران وچهاردهمین کنفرانس مهندسی و:CsPbI۳غیرآلی فناوری فوتونیک ایران، دانشگاه شهید چمران اهواز، خوزستان، ایران. ۱۴-۱۲بهمن۱،۴۰۰۱ - اهواز،۲۰۲۲ ۰۲ ۰۱ .
47. N. Sharifi, M. Chavoshi and N. Taghavinia،Coating of Silver on cellulose fibers and glass fibers،Seventh Surface Engineering and Heating Processes conference of the Iranian Society of Surface Science and Technology،۲۰۰۶.

Papers in Journals

1. Vahid Eskandari, Nafiseh Sharif،Molecule Detection of Gelatin and Comparison the Effect of Silver and Gold on Gelatin Raman Enhancement،Lasers in Medicine،۳۵،۲۰۲۰-۲۶ شماره صفحات.
2. Vahid Eskandari, Nafiseh Sharif،Study of The Molecular vibrations of Serotonin Using Raman Spectroscopy and Silvery Substrates made by Electrophoretic Deposition،Lasers in Medicine،۲۰۲۱.
3. Vahid Eskandari and Nafiseh Sharifi,Rapid and Easy Fabrication of Tryptophan Amino Acid Plasmonic Detection Kit,Advanced Materials and Novel Coatings,2020.
4. Vahid Eskandari and Nafiseh Sharifi,Facile and Rapid Detection of Methyl Parethion by Plasmonic Flexible Substrates,Laser in Medicine,2020.
5. Kamran Heydaryan, Mohammad Almasi Kashi, Nafiseh Sharifi and Mohammad Ranjbar Azad,Efficiency improvement in non-enzymatic H2O2 detection induced by the simultaneous synthesis of Au and Ag nanoparticles in an RGO/Au/Fe3O4/Ag nanocomposite,New Journal of Chemistry,2020.
6. Nafiseh Sharifi, Vahid Eskandari,Molecular diagnosis of plasma phenyalanine in neonates with phenylketonuria disease using biological sensors based on surface enhanced Raman spectroscopy (SERS),International Journal of Optics and Photonics,2019.
7. Kamran Heydaryan, Mohammad Almasi Kashi and Nafiseh Sharifi,Reduced Graphene Oxide/Magnetite Nanocomposites: Synthesis and Characterizati,Nanomeghyas,1398.
8. Vahid Eskandari and Nafiseh Sharifi,Fabrication of Plasmonic Substrates Using Facile Technique of Spin-Coating for Salmonella Bacteria Detection,Laser in Medicine,2019.
9. Vahid Eskandari and Nafiseh Sharifi,Glucose and Froctose Detection Using Raman Spectroscopy and Plasmonic Substrates Coated with Gold Nanoparticles,Laser in Medicine,2019.
10. Naemeh Aeineh, Nafiseh Sharifi and Abbas Behjat,Application of Au@SiO2 plasmonic nanoparticles at interface of TiO2 mesoporous layers in perovskite solar cells,International Journal of Optics and Photonics,2018.
11. برای ساخت نانو زیست حسگرهای نوکلئیک اسید،دنیای DNA صدیقه فلاحی و نفیسه شریفی،روش های تثبیت نانو،۱۳۹۷.
12. Naemeh Aeineh, Eva M. Barea, Abbas Behjat, Nafiseh Sharifi and Iv□n Mora ,& Ser□,Inorganic Surface Engineering to Enhance Perovskite Solar Cell Efficiency,ACS Appl. Mater. Interfaces,2017.
13. فاطمه اسماعیل زاده کلنتری و نفیسه شریفی،سلول های خورشیدی پروسکایتی،دنیای نانو،مجلد ۴۷،شماره صفحات ۳۳،۲۰۱۷-۲۹،ISC. ۰۱ ۸
14. نفیسه شریفی و صدیقه فلاحی،کاهش گرافن اکسید با استفاده از واکنش گرهای طبیعی و روش های جایگزین،دنیای نانو،شماره ۴۷،شماره صفحات ۵-۲۰۱۶،۱۲ ۹ ۰۱ ISC.
15. N. Aeineh, N. Sharifi, A. Behjat,Application of Au@SiO2 plasmonic nanoparticles at interface of TiO2 mesoporous layers in perovskite solar cells,International Journal of Optics and Photonics (IJOP),2017.
16. Nafiseh Sharifi, Nahid Ghazyani and Nima Taghavinia,Morphological dependence of light backscattering from metallic back reflector films: Application in dye-sensitized solar cells,Physical Status Solidi (a): applications and materials,2015.
17. نفیسه شریفی،مدیریت نور در سلول های خورشیدی رنگدانه ای،دنیای نانو،۲۰۱۵ ۰۱ ۴ ISC.
18. N. Aeineh, E.M. Barea, A. Behjat, N. Sharifi, I. Mora ,& Ser□,Inorganic Surface Engineering to Enhance Perovskite Solar Cell Efficiency,ACS Applied Materials & Interfaces,2017.
19. F. Esmaeilzade Kalantari, N. Sharifi،Provskite Solar Cells،Donyaye Nano،۱۳۹۶.
20. Nafiseh Sharifi, Fariba Tajabadi and Nima Taghavinia,Recent Developments in Dye-sensitized Solar Cells,A European Journal of Chemical Physics and Physical Chemistry,2014.
21. N. Sharifi, A. Dabirian, D. Danaei, N. Taghavinia,Aggregates of plasmonic nanoparticles for broadband light trapping in dye-sensitized solar cells,Journal of Optics,2016.
22. Nafiseh Sharifi, Shabnam Dadgostar, Nima Taghavinia, Azam Iraji zad,Freestanding Light Scattering Hollow Silver Spheres Prepared by a Facile Sacrificial Templating Method and Their Application in Dye-sensitized Solar Cells,Journal of Power Sources,2013.

23. N. Sharifi, N. Ghazyani, N. Taghavinia,Morphological Dependence of Light Backscattering from Metallic Back Reflector Films: Application in Dye-sensitized Solar Cells,physica status solidi (a): applications and materials science,2015.
24. Nafiseh Sharifi, Fariba Tajabadi, Nima Taghavinia,Nanostructured silver fibers: Facile synthesis based on natural cellulose and application to carbon composite electrode for oxygen reduction,International Journal of Hydrogen Energy,2010.
25. S. Fallahi, N. Sharifi،Alternative Methods and Nature-based Reagents for the Reduction of Graphene Oxide،Donyaye Nano،۱۳۹۵.
26. Nafiseh Sharifi, Ali Dabirian, Davood Danaei and Nima Taghavinia,Aggregates of plasmonic nanoparticles for broadband light trapping in dye-sensitized solar cells,Journal of Optics,2016.
27. N. Sharifi،Photon Management in Dye-sensitized Solar Cells،Donyaye Nano،۱۳۹۴.
28. Nafiseh Sharifi, Nima Taghavinia,Silver nano-islands on glass fibers using heat segregation method,Materials Chemistry and Physics,2008.
29. N. Sharifi،Transparency Effect of Electrolyte on Light Back-scattering in Dye-sensitized Solar Cells،Journal of Advanced Materials in Engineering،۱۳۹۴.
30. Z. Hosseini, N. Taghavinia, N. Sharifi, M. Chavoshi and M. Rahman,Fabrication of High Conductivity TiO2 Fibrous electrophoretic Deposition Method,Journal of Physical Chemistry C,2008.
31. N. Sharifi, F. Tajabadi, N. Taghavinia,Recent Developments in Dye-Sensitized Solar Cells,A European Journal of Chemical Physics and Physical Chemistry (ChemPhysChem),2014.
32. N. Sharifi, S. Dadgostar, N. Taghavinia, A. Irajizad,Freestanding Light Scattering Hollow Silver Spheres Prepared by a Facile Sacrificial Templating Method and Their Application in Dye-sensitized Solar Cells,Journal of Power Sources,2013.
33. N. Sharifi, N. Taghavinia and A. Iraji Zad،Fabrication of Silver Microspheres as Metallic Scattering Centers in Dye-sensitized Solar Cells: Light Harvesting،Research and Scientific Journal Energy Management،۱۳۹۱.
34. N. Sharifi, F. Tajabadi, N. Taghavinia,Nanostructured silver fibers: Facile synthesis based on natural cellulose and application to carbon composite electrode for oxygen reduction,International Journal of Hydrogen Energy,2010.
35. N. Sharifi, N. Taghavinia,Nanometric silver islands on glass fibers using heat segregation method,Journal of Materials Chemistry and Physics,2009.
36. Nafiseh Sharifi,Transparency Effect of Electrolyte on Light Back-scattering in Dye-sensitized Solar Cells,Journal of Advanced Materials in Engineering,1394.
37. Z. Hosseini, N. Taghavinia, N. Sharifi, M. Chavoshi, M. Rahman,,"Fabrication of high conductivity TiO2/Ag fibrous electrode by the electrophoretic deposition method,Journal of Physical Chemistry C,2008.
38. N. Sharifi, N. Taghavinia and A. Iraji Zad,Fabrication of Silver Microspheres as Metallic Scattering Centers in Dye-sensitized Solar Cells: Light Harvesting,Research and Scientific Journal Energy Management,1391.
39. وحید اسکندری,نفیسه شریفی،بهبود ارتعاشات مولکولی آمینواسیدهای فنیل آلانین، بتا آلانین، لوسین و گلیسین با استفاده از نانوذرات نقره به هدف شناسایی آن ها،پژوهش های نوین فیزیک،مجلد ۴،شماره صفحات ۱،۱۳۹۹/۱۱/۲۰.
40. N. Sharifi, M. Chavoshi and N. Taghavinia،Coating of silver on cellulose fibers and glass fibers،Journal of Iran Surface Coatings Magazine،۱۳۸۵.
41. پریسا کریمی مونه,نفیسه شریفی,Performance and stability of different all-inorganic and hybrid organic-inorganic perovskites in p-n planar device structure FTO/ SnO2/Perovskite/Cu2O/Carbon using SCAPS-1D simulation,journal of optics,Vol. 53,pp. 2863,2024 09 18,SCOPUS ,JCR.
42. پریسا کریمی مونه,نفیسه شریفی,Performance and stability of different all-inorganic and hybrid organic-inorganic perovskites in p-n planar device structure FTO/ SnO2/Perovskite/Cu2O/Carbon using SCAPS-1D simulation,journal of optics,Vol. 53,pp. 2863,2024 09 18,SCOPUS ,JCR.
43. پریسا کریمی مونه,نفیسه شریفی,Comparison of Pb-based and Sn-based perovskite solar cells using SCAPS simulation: optimal efficiency of eco-friendly CsSnI3 devices,Environmental Science and

Pollution Research,Vol. 31,pp. 51447,2024 08 07,SCOPUS ,PubMed ,JCR.
44. N. Sharifi, M. Chavoshi and N. Taghavinia,Coating of silver on cellulose fibers and glass fibers,Journal of Iran Surface Coatings Magazine,1385.