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EDUCATION:

University of Cambridge, UK, Ph. D. in Condensed Matter Physics, May 1999
International Center for Theoretical Physics, Trieste, Italy, Diploma in Condensed Matter Physics, Sep 1993
University of Dhaka, Bangladesh, M.Sc. in Physics, Sep 1992
University of Dhaka, Bangladesh, B.Sc. (Honors in Physics), June 1990

APPOINTMENT:

Associate Professor, Nanoscience Technology Center, Department of Physics & School of Electrical Engineering and Computer Science, University of Central Florida, 08/2010 – present:
Assistant Professor, Nanoscience Technology Center and Department of Physics. University of Central Florida, 07/2005 – 07/2010:
Visiting researcher, semiconductor physics group, University of Cambridge, 06/2009
Guest Researcher, National Institute of Materials Sciences, Tsukuba, Japan, 07/2008
Assistant Director, Center for Nano- and Molecular Science & Technology, University of Texas at Austin, 08/2003- 07/2005
Post-doctoral Research Associate, Department of Physics and Center for Nano- and Molecular Science & Technology, University of Texas at Austin, 09/2001-07/2003:
Associate Professor of Physics, University of Dhaka, Bangladesh, 02/2001–08/2001
Assistant Professor of Physics, University of Dhaka, Bangladesh, 12/1998–02/2001

HONORS & AWARDS:

- Research Incentive Award 2010, University of Central Florida
- NSF CAREER Award, 2008-2014
- Junior Associate Member, 2001-2006, International Centre for Theoretical Physics, Trieste, Italy
- Scholarship of the Association of Commonwealth Universities, UK, 1994-1997
- Scholarship from the International Center for Theoretical Physics, Trieste, Italy, 1992-1993
- Raja Kali Narayan Scholarship, 1990 (most prestigious award of Dhaka University given for securing highest score for the graduating class of 1990)

GRANTS AWARDED:

- (i) Title: CAREER: Engineering and Parallel fabrication of Single Electron Transistor Devices Using Carbon Nanotubes
Agency: National Science Foundation
Amount: \$439,948
Award period: 2008 – 2014
Role: Principal Investigator
- (ii) Title: Organic electronic devices using epitaxially grown conjugated polymer crystalline nanowires on carbon nanotube and graphene electrodes
Agency: National Science Foundation
Amount: \$379999 (Khondaker's share \$235996)
Award period: 2011 – 2014
Role: Principal Investigator (with co-PI Lei Zhai)

- (iii) Title: Programmed Nanomaterial Assemblies in Large-Scale 3D Structures: Applications of Synthetic and Genetically-Engineered Peptides to Bridge Nano-Assemblies and Macro-Assemblies
 Agency: Department of Energy (subcontracted from Hunter College of CUNY)
 Amount: \$103,906 (Khondaker 100%)
 Award period: 2011 – 2014
 Role: Principal Investigator at UCF (Major PI: Hiroshi Matsui at CUNY)
- (iv) Title: Planar gated organic photovoltaic device
 Agency: National Science Foundation
 Amount: \$300,000 (Khondaker's share \$187313)
 Award period: 2008 – 2012
 Role: Principal Investigator (with co-PI Andre Gesquierre)
- (v) Title: Collaborative Research: Integration of Biomolecular Self-Assembly and Capacitance Spectroscopy on Pathogen Diagnostics-On-Chip
 Agency: National Science Foundation
 Amount: \$100,275
 Award period: 2008 – 2011
 Role: Principal Investigator
- (vi) Title: Room-Temperature Synthesis of Semiconductor Nanowires by Templating Collagen Triple Helices and Their Precise Assembly into Electric Circuits by Biomolecular Recognition
 Agency: Department of Energy (subcontracted from Hunter College of CUNY)
 Amount: \$108,503 (Khondaker 100%)
 Award period: 2007 – 2010
 Role: Principal Investigator at UCF (Major PI: Hiroshi Matsui at CUNY)
- (vii) Title: MFFA - CAREER: Engineering and Parallel fabrication of Single Electron Transistor Devices Using Carbon Nanotubes
 Agency: University of Central Florida (UCF)
 Amount: \$56,234
 Award period: 2008 – 2013
 Role: Principal Investigator
- (viii) Title: MFFA- Planar gated organic photovoltaic device
 Agency: UCF
 Amount: \$43,330 (Khondaker 62%)
 Award period: 2008 – 2012
 Role: Principal Investigator (with co-PI Andre Gesquierre)
- (ix) PI: Design and fabrication of a novel high efficiency organic solar cell
 Agency: UCF In house
 Amount: \$7500
 Award period: 2008 – 2009
 Role: Principal Investigator
- (x) Title: Low temperature – high magnetic field cryostat for quantum transport measurements of nanomaterials and composites
 Agency: UCF/Presidential equipment initiative
 Amount: \$45,495
 Period: 2007
 Role: Principal Investigator
- (xi) CoPI: Acquisition of transmission electron microscope for polymeric and biological studies at nanoscale
 Agency: UCF/Presidential equipment initiative
 Amount: \$123,410

Period: 2007

(xii) PI : Room temperature single electron transistor using carbon nanotube

Agency: UCF in house research

Amount: \$7500

Period: 2007 – 2008

TEACHING:

08/2005 – present:

Spring 2014: PHY 2053 section 2, College Physics I (4 credit). Enrollment = 220

Spring 2014: PHY 2053 Lab section 20, College Physics Laboratory (1 credit). Enrollment = 32

Fall 2013: PHY 2053 Lab section 12, College Physics Laboratory (1 credit). Enrollment = 32

Fall 2013: PHY 2053 Lab section 13, College Physics Laboratory (1 credit). Enrollment = 32

Fall 2013: PHY 2053 Lab section 16, College Physics Laboratory (1 credit). Enrollment = 32

Spring 2013: PHY 2053 section 1, College Physics I (4 credit). Enrollment = 281

Spring 2013: PHY 2053 Lab section 17, College Physics Laboratory (1 credit). Enrollment = 32

Spring 2013: PHY 2053 Lab section 18, College Physics Laboratory (1 credit). Enrollment = 32

Spring 2013: PHY 2053 Lab section 24, College Physics Laboratory (1 credit). Enrollment = 31

Spring 2012: PHY 2048, Physics for Scientists and Engineers (4 credit) , Enrollment = 224

Spring 2012: PHY 5704, Physics of Nanoelectronic Devices (3 credit), Enrollment = 5 ([This is a new graduate course designed by me as part of my CAREER education plan](#)).

Spring 2011, PHY 2048 Section 1, Physics for Scientists and Engineers (4 credit), Enrollment = 210

Spring 2011, PHY 2048 Honors section, Physics for Scientists and Engineers (3 credit),
Enrollment = 17

Spring 2011, PHY 2048H Lab, (1 credit) Enrollment = 17

Spring 2010, PHY 2048 Lab

Spring 2010, PHY 2048 Honors section, Physics for Scientists and Engineers (3 credit),
Enrollment = 20

Fall 09, PHY 5838 - Special Topics: Physics of NanoElectronic Devices (3 credit), Enrollment = 11
([This is a new course designed by me as part of my CAREER education plan](#))

Spring 09, PHY 2048, Physics for Scientists and Engineers (3 credit), Enrollment = 94

Fall 08, PHY 5846C Methods of Experimental Physics (3 credit), Enrollment = 10
([course modified to include a new lab module to integrate research into education as part of my CAREER education plan](#))

Spring 08, PHY 2048, Physics for Scientists and Engineers (3 credit), Enrollment = 90

Fall 07, PHY 5846C Methods of Experimental Physics (3 credit), Enrollment = 12

Spring 07, PHY 2048, Physics for Scientists and Engineers (3 credit), Enrollment = 89

Fall 06, PHY 5846C Methods of Experimental Physics (3 credit), Enrollment = 11

Spring 06, PHY 5846C Methods of Experimental Physics (3 credit), Enrollment = 8
([course modified to include several new cutting edge experiments](#))

Guest Lectures:

Fall 07: BSC 3424 Nanobiotechnology: Lecture on Nanodevice fabrication

Summer 07: Guest lecturer, PHY 6939 - Graduate Research Seminar

Summer 07: Nano –REU lecture on Nanotechnology, July 9, 2007

Summer 06: Guest lecturer, PHY 6939 - Graduate Research Seminar

THESIS COMPLETED UNDER MY SUPERVISION:

1. Ph.D. Thesis: Controlled assembly and electronic transport studies of solution processed carbon nanotube devices by Paul Stokes, Department of Physics, April 2010, University of Central Florida
2. Ph.D. Thesis: Electronic and optoelectronic transport properties of solution processed large area carbon nanotube and carbon nanotube-polymer devices by Biddut Sarker, Department of Physics, December 2012, University of Central Florida.

3. Ph.D. Thesis: High yield fabrication and electron transport studies chemically modified graphene sheets, by Daeha Joung, Department of Physics, December 2012, University of Central Florida.
4. Ph.D. thesis: Planar Organic Photovoltaic Devices by Feras Alzubi, Department of Physics, summer 2013, University of Central Florida.
5. MS Thesis: The Effect of Carbon Nanotube/Organic Semiconductor Interfacial Area on the Performance of Organic Transistors by Narae Kang, Department of Physics, December 2012, University of Central Florida.
6. MS Thesis: Investigation of Breakdown Power During Electrical Breakdown of Aligned Array Of Carbon Nanotubes by Udai Bhanu, Department of Physics, December 2012, University of Central Florida.
7. Honors in Major Thesis: High yield assembly and electron transport investigation of semiconducting-rich local-gated single-walled carbon nanotube field effect transistors by Krsity J. Kormondy, Department of Physics, April 2011, University of Central Florida.
8. Honors in Major Thesis: Fabrication and transport studies of n-type OFET using carbon nanotube aligned array electrodes by Edwards Jimenez, Department of Electrical Engineering, April 2012, University of Central Florida.

THESIS EXPECTED TO BE COMPLETED THIS YEAR UNDER MY SUPERVISION:

- Ph.D. Thesis: Parallel fabrication of single electron transistor using single wall carbon nanotube by Muhammad Islam, Department of Physics, University of Central Florida.
Graduation expected in Fall 2014.

MENTORING OF STUDENTS AND POST DOCTORAL SCHOLARS:

Current Postdoc:

1. Daeha Jung (Ph.D. in Physics, 2012)

Current Students:

1. Mohammad Islam (Ph.D Student, Fall 2009- present) Graduation expected in **Summer 2013**
2. Narae Kang (Ph.D student, Spring 2011 - present)
3. Udai Bhanu (Ph.D student, Summer 2011 - present)
4. Westley James, Undergraduate student.
5. Eric Smithson, Undergraduate student.
6. Justin Reyes, Undergraduate student.

Past Students and Postdoctoral Scholars:

1. Paul Stokes (Ph.D. in Physics, 2010). [Published 11 papers.](#)
[\(Now at Triquint Semiconductor. He is considered to be a valuable employee at his company and received three raises in his first year\).](#)
2. Biddut Sarker (Ph.D. in Physics, 2012) [Published 11 papers in high impact factor journals such as ACS Nano, APL under my supervision.](#) Now a postdoctoral fellow at Purdue University
3. Daeha Joung (Ph.D. in Physics, 2012) [Published 14 papers in high impact factor journals such as ACS Nano, APL, PRB under my supervision.](#) Now a postdoctoral fellow in my group
4. Feras Alzubi (Ph.D. in Physics, 2012)
5. Kristy Kormondy (undergraduate student in Physics, Spring 2009- 2011) [Completed Honors in Major Thesis. Published two papers.](#) Now a graduate student at the University of Texas at Austin.
6. Edwards Jimenez (undergraduate student in Electrical Engineering, Summer 2010- spring 2012). [Completed Honors in Major Thesis.](#) Now a MS student at UCF
7. Liwei Liu (postdoc 2006-2007). Now an Associate Professor, Suzhou Nano Institute, Chinese Academy of Sciences),

8. Tanusri Paul (Postdoc 2009-10). Now an Assistant Professor at Midnapore College, Westbengal, India)
9. Surajit Ghosh, (Postdoc 2009-10) Now an Assistant Professor at Vidyasagar University, West Bengal, India
10. Mohammad Ali Iftekhar Arif (postdoc 2008-2010). Now an Assistant Professor at Northern Virginia Community College)
11. Shashank Sekhar (postdoc 2008- 2011). Now postdoc at Seoul National University
12. Yodchay Jompol (postdoc 2008-2009). Now lecturer at Mahidol University, Thailand.
13. Robert Hudson, REU summer student 2012.
14. Eliot Silbar (undergraduate student, Spring 2008- 2011) Coauthored two papers. Now an engineer at Triquint Semiconductor
15. Yashira Zayas Gonzalez, REU summer student 07
16. Alexandra Dobrinescu, Romanian Undergraduate Exchange Student, Summer 07
17. Andrei Valentin Plamada, Romanian Undergraduate Exchange Student, Summer 07
18. Irin Nizam (undergraduate student, Spring 08)
19. Rachel Reedy (high school student Fall 07- Spring 08)
20. Jared Scholato (high school student, Fall 07)
21. Neha Bandivdekar (undergraduate student, Fall 08)
22. Pamela Caraballo (undergraduate student, Fall 08)
23. Justin Brooks (high school student, Fall 09)

AWARDS GIVEN TO MY STUDENTS:

18. Second Prize in Computational and Experimental Materials Science is given to my student Udai Bhanu at Florida chapter of American vacuum society meeting 2013.
17. Best poster award in the category of Engineering, Computer Science, Optics, Physical Sciences, Mathematics, Modeling and Simulation was given to my student Biddut Sarker at UCF Graduate research Forum 2012.
16. Best poster award in the category of Engineering, Computer Science, Optics, Physical Sciences, Mathematics, Modeling and Simulation was given to my student Daeha Joung at UCF Graduate Research Forum 2012.
15. Grand Award (1st prize) for poster presentation was given to my Undergraduate student Edwards Jiminez at 2012 Florida Chapter of AVS meeting , USA
14. Second Prize for Poster Presentation was given to my graduate student Biddut Sarker at 2012 Florida Chapter of AVS meeting, Orlando.
13. Grand (first) award for poster presentation in Computational and Experimental Material Science category was given to my graduate student Udai Bhanu at 2012 Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, Orlando, FL
12. Honorable Mention in Energy-Related Materials to my graduate student Feras Alzubi at 2012 Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, Orlando, FL
11. Honorable mention to my student Daeha Joung for poster presentation in Florida Chapter of AVS meeting of 2011 in Orlando, FL
10. NanoFlorida 2010: Second prize in undergraduate category was given to my student Kristy Kormondy
9. NanoFlorida 2010: Second prize in the graduate category was given to my student Muhammad Islam.
8. Seminole county science fair 2010: Justin Brooks (high school student worked in my group) received first prize in physics/astronomy category.
7. Nanoflorida 2009: Best poster award in Nanophotonics and Nanoelectronics category was give to my student Daeha Joung
6. Nanoflorida 2009: 2nd best poster award in Nanophotonics and Nanoelectronics category was give to my student Biddut Sarker

5. American Vacuum Society, Florida Chapter meeting 2009: Honorable mention to my student Biddut Sarker in materials characterization category
4. Nanoflorida 2008: Best Oral Presentation in Physics of Nanoscale Systems Session was given to my student Paul Stokes
3. UCF research week 2008: Best presentation in Physical Sciences awarded to Paul Stokes
2. Lindau Nobel lecture 2008: Paul Stokes received an award to attend the Nobel Laureate lecture in Lindau, Germany.
1. Seminole County Science Fair 2008: Rachael Reedy (high school student) received second place in Seminole County science fair for her project on “infrared photodetector with carbon nanotube”

SERVICES:

Professional Services:

- Associate Editor, Material Express (www.aspbs.com/mex): 2011- present
- Referee for Nature Nanotechnology, ACS Nano, Applied Physics Letters, Nano Letters, Nanotechnology, Journal of Physics D: Applied Physics, Journal of Physics: Condensed Matter, New Journal of Physics, Nanoscale Research Letters, ACS Applied Materials and Interfaces, Chemical Physics Letters, Sensor and Actuators B.
- Organizer, Florida chapter of the American Vacuum Society meeting 2011 and 2012.
- Session Chair: Nanoelectronics, 2012 Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, Orlando, FL
- Session Chair: American Physical Society March meeting 2012, Boston. Focus Session: Organic electronics and Photonics: this film transistors
- Session Chair: American Physical Society March meeting 2010, Focus Session: Carbon Nanotubes: Electron Transport
- Session Chair: 77th Annual Meeting of the Southeastern Section of the American Physical Society. Session: Liquids and Nanostructures, Baton Rouge, LA October 2010.
- Session Chair: 12th International Symposium on Advanced Materials, Islamabad, Pakistan, August 2009
- Session Chair: American Physical Society March Meeting, March 2008, Focus session - Transport and Optical Properties of Conjugated Polymers and other Solution Processable Semiconductors (stood for Prof. Zakhidov)
- Session Chair: American Physical Society March Meeting, March 2007, Session – Transport in Carbon Nanotubes: Theory
- Panelist, Challenges for Printable Electronics and Photonics, NSF workshop on Research and Technological Challenges for Hybrid Flexible Electronics and Photonics, Arlington, Virginia. Nov 2010
- Proposal Reviewer, National Science Foundation 2007 – 2012
- Reviewer for user proposals at Center for Nanophase Materials Sciences at Oak Ridge National Laboratory, 2013-present.
- Member, International Program committee, IASTED International Conference on Nanotechnology and Applications, September 29 – October 1, 2008, Crete, Greece
- Proposal Reviewer, CRDF, 2006
- Member, American Physical Society, American Chemical Society, Electrochemical Society.

Services at the university:

- Member, NSTC Professional science masters committee
- Faculty mentor for Debashish Chanda and Laurene Tetard.
- Developing a CAREER research project, Presentation at NSF CAREER workshop series, Organized by Office of Research and Commercialization, University of Central Florida, May 22-23, 2013
- Steering committee member for Materials Characterization Facility, UCF 2013 – present.

- Panelist of NSF CAREER faculty panel discussion, March 19, 2013, Organized by Office of Research and Commercialization, University of Central Florida
- Panelist of faculty panel discussion: Writing proposal for reviewers, January 23 2013 and February 19, 2014. Organized by Office of Research and Commercialization, University of Central Florida
- Panelist of faculty panel discussion: Will your CAREER proposal stand out, January 26, 2012, Organized by Office of Research and Commercialization, University of Central Florida
- Panelist of NSF CAREER Awardee's panel discussion, February 22, 2011 UCF.
- Talk on Proposal writing: NSF CAREER Proposal Writing – My Experience, A talk given at UCF grants day symposium, 2009.
- Presentation at UCF Scholars day 2006, First class experience – Nano: tiny Technology with a BIG Impact
- UCF research week 2007, Member, Programming committee.
- Chair, Faculty Search Committee 2009-2010: Nanoscience Technology Center, University of Central Florida
- Member, Faculty search committee 2010-2011 Nanoscience Technology Center, University of Central Florida
- Member, Faculty search committee 05-06, Nanoscience technology center, University of Central Florida
- K-16 outreach activities 2006-2011: UCF Nano day, UCF Summer research academy.
- UCF Scholars day 2006, First class experience – Nano: tiny Technology with a BIG Impact
- Chair, Instrument usage committee 07-08, Nanoscience Technology Center
- Member, Education committee, Nanoscience Technology Center,, 2006- 2007
- Member, Affiliation committee, Nanoscience Technology Center, 2007 - present
- Member, Building committee, Nanoscience Technology Center 2006-2007
- Member, Seminar committee, Nanoscience Technology Center
- Member, Graduate Admission Committee 2006- 2008, Department of Physics, University of Central Florida
- Member, Graduate affairs committee, Department of Physics, University of Central Florida

Services before coming to UCF:

- As an assistant director, I was actively involved with the University of Texas Nanotechnology Initiative (UTNI), a strategic planning forum for developing visions, missions, and future directions for UT Austin's nano initiative, 2004-05.
- Participated in the design and construction of a new \$35 million “Center for Nano Molecular science and technology (CNM)” building at the UT Austin 2003-2005.
- Represented CNM at various committees and meetings including funding agencies 2003-2005.
- Organized outreach activities including demonstrations to K-12 students, 2004-2005.

PUBLICATIONS:

(± denotes postdoc, † denotes graduate student and * denotes undergraduate student)

Submitted:

78. Narae Kang†, Hari P. Paudel, Michael N. Leuenberger, Laurene Tetard, and Saiful I. Khondaker, Photoluminescence Tuning in Single-layer MoS₂ via Oxygen Plasma Treatment. Cond-Mat arXiv:1404.0646
77. Udai Bhanu†, Muhammad R. Islam†, Laurene Tetard, and Saiful I. Khondaker, Photoluminescence quenching in gold - MoS₂ hybrid nanoflakes. Cond-Mat arXiv:1404.5645

76. Muhammad R. Islam†, Narae Kang†, Udai Bhanu†, Hari P. Paudel, Mikhail Erementchouk, Laurene Tetard, Michael N. Leuenberger, and Saiful I. Khondaker. Electrical property tuning via defect engineering of single layer MoS₂ by oxygen plasma. *Cond-Mat arXiv:1404.5089*
75. Lei Zhai, Saiful I. Khondaker, Jayan Thomas, Chen Shen, and Matthew McInnis, Ordered Conjugated Polymer Nano- and Microstructures: From Structural Control to High Performance. Submitted

Published:

74. Daeha Joung† and Saiful I. Khondaker, Two to one dimensional crossover in graphene quantum dot arrays observed in reduced graphene oxide nanoribbons. *Physical Review B* 2014 (accepted for publication)
73. Biddut K. Sarker† and Saiful I. Khondaker, Lower Activation Energy in Organic Field Effect Transistors with Carbon Nanotube Contact, *Solid State Electronics* 2014 (accepted for publication).
72. Mohammad R. Islam† and Saiful I. Khondaker, Recent progress in parallel fabrication of individual single walled carbon nanotube devices using dielectrophoresis (Invited Review). *Materials Express* 2014 (accepted for publication).
71. Biddut K. Sarker†, Narae Kang† and Saiful I. Khondaker, High Performance Semiconducting Enriched Carbon Nanotube Thin Film Transistors Using Metallic Carbon Nanotube Electrode. *Nanoscale* 6, 4896 (2014).
70. Daeha Joung† and Saiful I. Khondaker, Structural evolution of reduced graphene oxide with varying carbon sp² fractions investigated via Coulomb blockade transport, *J. Phys. Chem. C.* 117, 26776 (2013).
69. Paul Stokes†, Mohammad R. Islam† and Saiful I. Khondaker, Low temperature electron transport spectroscopy of mechanically templated carbon nanotube single electron transistors, *Journal of Applied Physics* vol 114, 084311 (2013).
68. Daeha Joung†, Luona Anjia, Hiroshi Matsui, and Saiful I Khondaker, Negative differential resistance in ZnO coated peptide nanotube. *Appl Phys A*, vol 112, 305 (2013).
- 67 Soumen Das, Sanjay Singh, Virendra Singh, Daeha Joung†, Janet M. Dowding, Lei Zhai, Saiful I. Khondaker, William T. Self and Sudipta Seal, Cell toxicity of GO/RGO: function of size and oxygenated functional group density, *Particle and Particle systems Characterization* **30**, 148 (2013).
66. Daeha Joung† and Saiful I. Khondaker, Efros-Shklovskii variable range hopping in reduced graphene oxide sheets of varying carbon sp² fraction, *Physical Review B*, 86, 235423 (2012).
65. Narae Kang†, Biddut K. Sarker†, and Saiful I. Khondaker. The Effect of Carbon Nanotube/Organic Semiconductor Interfacial Area on the Performance of Organic Transistors, *Applied Physics Letters*, 101, 233302 (2012).
64. Saiful I. Khondaker, Parallel fabrication of CMOS compatible single walled carbon nanotube devices, *Reviews in Nanoscience and Nanotechnology* vol 1, 187 (2012).
63. Zhongjian Hu, Simon Tang, Anne Ahlvers, Saiful I. Khondaker, Andre J. Gesquiere, Near-infrared Photoresponse Sensitization of Solvent Additive Processed Poly(3-hexylthiophene)/Fullerene Solar Cells by a Low Band Gap Polymer. *Applied Physics Letters* 101, 053308 (2012)
62. M. Arif†, Jianhua Liu, Lei Zhai, and Saiful I. Khondaker, Temperature dependent charge transport in poly (3-hexylthiophene)-block polystyrene copolymer field-effect transistor. *Synthetic Metals* 162, 1531 (2012).
61. L. De Los Santos Valladares, D. Hurtado Salinas, A. Bustamante Dominguez, D. Acosta Najarro, S.I. Khondaker, T. Mitrelias, C.H.W. Barnes, J. Albino Aguiar, and Y. Majima, Crystallization and electrical resistivity of Cu₂O and CuO obtained by thermal oxidation of Cu thin films on SiO₂/Si substrates, *Thin Solid Films* 520, 6368 (2012).
60. Biddut K. Sarker†, and Saiful I. Khondaker, Thermionic Emission and Tunneling at Carbon Nanotube-Organic Semiconductor Interface. *ACS Nano*, vol 6, 4993 (2012)

59. Surajit Ghosh \pm , Tanusri Pal \pm , Daeha Joung \dagger and Saiful I. Khondaker, One pot synthesis of RGO/PbS nanocomposite and its near infrared photoresponse study. *Applied Physics A*, vol 107, 995 (2012).
58. Muhammad R. Islam \dagger , Kristy J. Kormondy*, Eliot Silbar*, and Saiful I. Khondaker, A general approach for high yield fabrication of CMOS compatible all semiconducting carbon nanotube field effect transistors. *Nanotechnology* vol 23, 125201 (2012). (* denotes undergraduate students)
57. Shashank Shekhar \pm , Helge Heinrich, and Saiful I. Khondaker, Huge Volume Expansion and Structural Transformation of Carbon Nanotube Aligned Arrays during Electrical Breakdown in Vacuum. *CARBON* 50 (2012) 1635-1643.
56. Biddut K. Sarker \dagger , and Saiful I. Khondaker, High Performance Short Channel Organic Transistors using Densely Aligned Carbon Nanotube Array Electrodes, *Appl. Phys. Lett.* 100, 023301 (2012)
55. Daeha Joung \dagger , Virendra Singh, Sanghoon Park, Alfons Schulte, Sudipta Seal, and Saiful I. Khondaker, Anchoring ceria nanoparticles on reduced graphene oxide and their electronic transport properties. *J. Phys. Chem. C*, 115, 24494–24500 (2011)
54. Kristy J. Kormondy*, Paul Stokes \dagger , and Saiful I. Khondaker, High yield assembly and electron transport investigation of semiconducting-rich local-gated single-walled carbon nanotube field effect transistors, *Nanotechnology* 22, 415201 (2011)
53. Biddut K. Sarker \dagger , Shashank Shekhar \pm and Saiful I. Khondaker, Semiconducting enriched carbon nanotube align arrays of tunable density and their electrical transport properties. *ACS Nano* 5, 6297 (2011).
52. Shashank Shekhar \pm , Mikhail Erementchouk, Michael N. Leuenberger, and Saiful I. Khondaker, Correlated breakdown of carbon nanotubes in an ultra-high density aligned array, *Applied Physics Letters*, vol 98, 243121 (2011).
51. Virendra Singh, Daeha Joung \dagger , Lei Zhai, Soumen Das, Saiful I. Khondaker, and Sudipta Seal. Graphene Based Materials: Past, Present and Future. *Prog Mater Sci* vol 56, 1178 (2011). ([Most downloaded article](#))
50. Biddut K. Sarker \dagger , Jianhua Liu, Lei Zhai, and Saiful I. Khondaker, Fabrication of Organic Field Effect Transistor by Directly Grown Poly(3 Hexylthiophene) Crystalline Nanowires on Carbon Nanotube Aligned Array Electrode, *ACS Appl. Mater. Interfaces* 2011, 3, 1180–1185.
49. Biddut K. Sarker \dagger , Muhammad R. Islam \dagger , Feras Alzubi \dagger , and Saiful I. Khondaker, Fabrication of Aligned Carbon Nanotube Array Electrodes for Organic Electronics Devices, *Mater. Express* 1, 80-85 (2011)
48. Muhammad R. Islam \dagger , Daeha Joung \dagger , and Saiful I. Khondaker, Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts (invited article), *New J. Phys.* 13, 035021 (2011) (special issue of chemically modified graphene).
47. Daeha Joung \dagger , Lei Zhai, and Saiful I. Khondaker, Coulomb blockade and hopping conduction in graphene quantum dots array, *Phys. Rev. B* 83, 115323 (2011).
46. Shashank Shekhar \pm , Paul Stokes \dagger , and Saiful I. Khondaker, Ultra-high density alignment of carbon nanotubes array by dielectrophoresis, *ACS Nano*, vol 5, 1739 (2011).
45. Shashank Shekhar \pm , Luona Anjia, Hiroshi Matsui, and Saiful I. Khondaker, Electrical transport properties of peptide nanotube coated with gold nanoparticles via peptide-induced biomineralization, *Nanotechnology* Vol 22, 095202 (2011)
44. Jianhua Zou, Jianhua Liu, Ajay Singh Karakoti, Amit Kumar, Daeha Joung \dagger , Saiful I. Khondaker, Sudipta Seal, and Lei Zhai. Ultra-light Flexible Multi-walled Carbon Nanotube Aerogel and Its Pressure Responsive Properties. *ACS Nano*, Vol 4, 7293 (2010)
43. Paul Stokes \dagger and Saiful I. Khondaker, Directed assembly of solution processed single walled carbon nanotubes via dielectrophoresis: from aligned array to individual nanotube devices *J. Vac. Sci. Technol. B* 28, C6B7 (2010)
42. V Luis De Los Santos, F Lizbet Leon, D Angel Bustamante, Thanos Mitrelias, Francois Sfigakis, Saiful I Khondaker, Crispin HW Barnes and YutakaMajima, Controlled electroplating and electromigration in nickel electrodes for nanogap formation, *Nanotechnology* 21, 445304 (2010) (cover article)

41. Anindarupa Chunder, Tanusri Pal \pm , [Saiful I. Khondaker](#), and Lei Zhai, Reduced Graphene Oxide/Copper Phthalocyanine Composite and Its Optoelectrical Properties, *J. Phys. Chem. C* **114**, 15129 (2010)
40. Daeha Joung \dagger , A. Chunder, Lei Zhai and [Saiful I. Khondaker](#), Space charge limited conduction with exponential trap distribution in reduced graphene oxide sheets. *Applied Physics Letters* **97**, 093105 (2010).
39. Tanusri Pal \pm , M. Arif, and [Saiful I. Khondaker](#), High performance organic phototransistor based on regioregular poly(3-hexylthiophene), *Nanotechnology* 21, 325201 (2010)
38. M. Arif, Jianhua Liu, Lei Zhai and [Saiful I. Khondaker](#), Poly (3-hexylthiophene) crystalline nanoribbon network for organic field effect transistors, *Applied Physics Letters* **96**, 243304 (2010).
37. Surajit Ghosh \pm , Biddut K. Sarker \dagger , Anindarupa Chunder, Lei Zhai, and [Saiful I. Khondaker](#), Position dependent photodetector from large area reduced graphene oxide thin films. *Applied Physics Letters* 96, 163109 (2010).
36. Paul Stokes \dagger and [Saiful I. Khondaker](#), Evaluating defects in solution processed carbon nanotube devices via low temperature transport spectroscopy, *ACS Nano Vol 4*, 2659 (2010)
35. Daeha Joung \dagger , A. Chunder, Lei Zhai, and [Saiful I. Khondaker](#), High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. *Nanotechnology* 21, 165202 (2010). Highlighted article for 2010 by *Nanotechnology Journal*
34. Paul Stokes \dagger and [Saiful I. Khondaker](#), High quality solution processed carbon nanotube transistors assembled by AC dielectrophoresis, *Applied Physics Letters* 96, 083110 (2010)
33. [Saiful I. Khondaker](#), Kang Luo, and Zhen Yao, Fabrication of Single-Electron Transistors Using Dielectrophoretic Trapping of Individual Gold Nanoparticles. *Nanotechnology* 21, 095204 (2010)
32. Biddut K. Sarker \dagger , M. Arif \pm , and [Saiful I. Khondaker](#), Near-infrared photoresponse in single walled carbon nanotube/polymer composite films, *CARBON* 48, 1539 (2010).
31. Jianhua Liu, Mohammad Arif \pm , Jianhua Zou, [Saiful I. Khondaker](#) and Lei Zhai, Controlling Poly(3-hexylthiophene) Crystal Dimension: Nanowhiskers and Nanoribbons, *Macromolecules* 42, 9390 (2009)
30. Daeha Joung \dagger , M. Arif \pm , Subhajit Biswas, Soumitra Kar, Swadeshmukul Santra, and [Saiful I. Khondaker](#), Electronic transport properties of ternary CdZnS nanowire network. *Nanotechnology* 20, 445204 (2009)
29. Biddut Sarker \dagger , M. Arif \pm , Paul Stokes, and [Saiful I. Khondaker](#), Diffusion mediated photoconduction in multi-walled carbon nanotube film, *Journal of Applied Physics* 106, 074307 (2009)
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27. Paul Stokes \dagger , Eliot Silbar*, Yashira M. Zayas* and [Saiful I. Khondaker](#), Solution processed large area field effect transistors from dielectrophoretically aligned arrays of single-walled carbon nanotubes. *Appl. Phys. Lett.* 94, 113104 (2009).
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24. Jianhua Zou, [Saiful I. Khondaker](#), Lei Zhai and Qun Huo, A General Strategy to Disperse and Functionalize Carbon Nanotubes Using Conjugated Block Copolymers, *Advance Functional Materials* 19, 479 (2009).
23. Paul Stokes \dagger and [Saiful I. Khondaker](#), Controlled fabrication of single electron transistors from single-walled carbon nanotubes, *Appl. Phys. Lett.* **92**, 262107 (2008).
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5. S. I. Khondaker, I. S. Shlimak, J. T. Nicholls, D. A. Ritchie, and M. Pepper, "Electron-electron interaction assisted hopping and crossover phenomenon in two-dimensional electron system," *Proceedings of 24th Int. Conf. on Physics of Semic.*, Jerusalem, August 2-7, 1998, Editor David Gershoni, World Scientific, Singapore, CD-part, V-D-5.
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PATENT:

1. Qun Huo, Saiful Khondaker, Jianhua Zou, Lei Zhai, Hui Chen, and Harish Muthuraman, Polymer composites having highly dispersed carbon nanotubes and methods for forming same. US Patent # 7951850
2. Qun Huo, Saiful Khondaker, Jianhua Zou, Lei Zhai, Hui Chen, and Harish Muthuraman, Polymer composites having highly dispersed carbon nanotubes, US Patent number: 8709292. Issued: April 29, 2014.
3. Saiful Khondaker, Laurene Tetard, Mohammad Islam, Plasma treated semiconductor dichalcogenide materials and devices there from, Saiful Khondaker, Laurene Tetard, Mohammad Islam. Submitted for US Patent.

INVITED TALKS:

49. Invited Talk: Coulomb blockade and hopping conduction in reduced graphene oxide sheets, ICONSAT 2014, Chandigarh, March 4, 2014.
48. Invited Talk: Efros-Shklovskii Variable Range Hopping in Reduced Graphene Oxide Sheets, TIDS 15, Barcelona, Sep 3, 2013.
47. Invited Talk: Semiconducting Enriched Carbon Nanotube Thin Film Transistors Using Metallic Carbon Nanotube Electrodes, 223rd Electrochemical Society Meeting, Toronto, CA. May 14, 2013
46. Semiconducting Enriched Carbon Nanotube Thin Film Transistors Using Metallic Carbon Nanotube Contact, 224th electrochemical society meeting, Toronto, May 14, 2013.
45. Electron Transport Investigations of Reduced Graphene Oxide (RGO) sheets, South Eastern Section of American Chemical Society Meeting, Tallahassee, Nov 15, 2012
44. Planar Organic Photovoltaic Device, Workshop on key scientific and technological issues for development of next generation organic solar cells, Nantional Science Foundation and Office of Naval Research, September 20-21, Arlington, VA.
43. Electron Transport Investigations of Reduced Graphene Oxide (RGO) and RGO/Nanoparticle Composites, 1st international Symposium on Graphene for Energy and Fuels, 244th American Chemical Society Meeting, Aug 21, Philadelphia, PA.
42. Organic field effect transistors using aligned carbon nanotube array electrodes: Device properties and charge injection mechanism, 244th American Chemical Society Meeting, Aug 20, Philadelphia, PA.
41. Charge Injection Mechanism at Carbon Nanotube-Organic Semiconductor Interface, 221st Electrochemical Society Meeting, May 8 2012, Seattle WA,
40. Efros-Shklovskii Variable Range Hopping in Reduced Graphene Oxide Sheets. Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, 2012, Orlando, FL
39. Advanced Lithography for Nanoscale Carbon Nanotubes and Graphene Oxide Devices, Advanced Lithography Workshop, University of Florida, Nov 8-9, 2011
38. Parallel fabrication and electron transport investigations of carbon nanotubes and graphene based devices Department of Physics, Lehigh University, July 5, 2011
37. Recent progress in carbon nanotubes and graphene based electronic devices, University of Dhaka, Bangladesh, June 27, 2011
36. Parallel fabrication and electron transport investigations of carbon nanotubes and graphene based devices Department of Physics, University of Central Florida, April 28, 2011
35. Parallel fabrication and electron transport investigations of carbon nanotubes and graphene based devices Florida A&M University, April 8, 2011.
34. Directed assembly and electron transport properties of chemically functionalized graphene, MRSEC Seminar, Georgia Tech, March 1, 2011
33. CAREER: Engineering and Parallel fabrication of Single Electron Transistor Devices Using Carbon Nanotubes, NSF ECCS grantees' conference, Honolulu, Hawaii, Nov 30-Dec 3, 2010.

32. Planar organic photovoltaic devices, NSF ECCS grantees' conference, Honolulu, Hawaii, Nov 30-Dec 3, 2010.
31. Parallel fabrication of CMOS compatible single walled carbon nanotube field effect transistor and single electron transistor devices, 77th Annual Meeting of the Southeastern Section of the American Physical Society, Baton Rouge, LA, October 22, 2010.
30. Controlling the assembly and electronic properties of carbon nanotube devices: from large area arrays to individual nanotubes, SUNY Albany, November 13 2009.
29. Solution processed carbon nanotube (CNT) based electronic devices: from single CNT to large area CNT/polymer composites, Villa Conference on Interactions among Nanostructures, September 6-11, 2009, St Thomas, US Virgin Island.
28. Keynote and Invited Talk: Controlling the assembly and electronic properties of carbon nanotube devices: from large area arrays to individual nanotubes, 12 th International Symposium on Advanced Materials, Islamabad, Pakistan, August 10, 2009.
27. Solution processed carbon nanotube (CNT) based electronic devices: from single CNT to large area CNT/polymer composites, Bangladesh University of Engineering and Technology, July 1, 2009.
26. Controlling the assembly and electronic properties of carbon nanotube devices: from large area arrays to individual nanotubes, Cavendish Laboratory, University of Cambridge, June 10, 2009
25. Controlling the assembly and electronic properties of carbon nanotube devices: from large area arrays to individual nanotubes, Nano Romania, Alexandru Ion Cusa University, Iasi, Romania, June 5, 2009
24. Solution processed carbon nanotube (CNT) based electronic devices: from single CNT to large area CNT/polymer composites, Queen Mary, University of London, UK, May 28 2009
23. Nanoscale electronic devices using individual chemical nanostructures, Nagoya Institute of Technology, Japan, July 29 2008.
22. Saiful I. Khondaker, Fabrication and Electronic Properties of Single Nanoparticle and Single Molecule Nanodevices, National Institute of Materials Sciences, Tsukuba, Japan, July 24, 2008.
21. Electron transport properties of nanoparticle and molecular devices, 33rd International Nathiagali Summer College, Pakistan, June 30 – July 5, 2008.
20. Electron transport properties of carbon nanotube devices, 33rd International Nathiagali Summer College, Pakistan, June 30 – July 5, 2008.
19. Fabrication of Nanoscale Devices, 33rd International Nathiagali Summer College, Pakistan, June 30 – July 5, 2008.
18. Large scale fabrication approach of carbon nanotube based electronic devices, Particle 2008, Orlando, May 13, 2008
17. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structure, Ohio University, Condensed Matter and Surface Science, January 17, 2008.
16. Nanotechnology – Ultrasmall material with big impact, University of Dhaka, Bangladesh, 12/29/07,
15. Fabrication and electron transport properties of nanodevices containing chemical nano-structures Hunter College of CUNY, 10/31/07,
14. Fabrication and electron transport properties of nanodevices containing chemical nano-structures, University of South Florida, 09/14/07,
13. Fabrication and electron transport properties of nanodevices containing chemical nano-structures, Naval Research Lab, 06/22/07
12. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structure, University of Florida, Dept of Material Science and Engineering (Prof. Henry Hess group), 4/25/07.
11. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structures, Materials Seminar AMPAC, UCF, October 27, 2006
10. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structures, Nanoscience Technology Center, University of Central Florida, April 2005
9. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structures, Department of Physics, University of Texas at Dallas, March 2005
8. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structures, Department of Physics, Texas Tech University, March 2005

7. Fabrication and electron transport properties of nanodevices containing individual chemical nano-structures, Department of Physics, University of Wyoming, February, 2005
6. Electron transport properties individual chemically synthesized nano-structures, Department of Physics, UT Arlington, October 2004
5. Electron transport properties of low dimensional semi-conductor structure, Physics Department, University of Texas at Austin, 2002
4. Electron transport properties of low dimensional semi-conductor structure, S. N. Bose National Center for basic sciences, Calcutta, December 1999
3. Electron transport properties of low dimensional semi-conductor structure, Institute of Mathematical Sciences, Chennai, India, December 1999
2. Electron transport properties of low dimensional semi-conductor structure, Indian Institute of Science, Bangalore, India, December 1999
1. Electron transport properties of low dimensional semi-conductor structure, International Nathiagali Summer College, PC Bhurban, Pakistan, July 1999.

PRESENTATIONS (Contributed talks and posters):

108. Contributed Talk : Narae Kang, Christian W. Smith, Masa Ishigami, and Saiful I. Khondaker, Simple Patterning of Graphene by Metal Mask using Sacrificial Polymer Layer and Their Applications in Organic Field-Effect Transistors, The Electrochemical Society (ECS) meeting, Orlando, USA, May 11-16, 2014
107. Poster: Udai Bhanu, Muhammad R. Islam, Saiful I. Khondaker, Carbon Nanotube - MoS₂ P-N Junction: Fabrication and Transport Properties, Graduate Research Forum, University of Central Florida, USA, April 1, 2014.
106. Poster : Narae Kang, and Saiful I. Khondaker, The Impact of Carbon sp² Fraction of RGO on the Performance of RGO-Contacted Organic Field-Effect Transistors, Graduate Research Forum, Orlando, USA, April, 1 (2014)
105. Poster : Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, High performance semiconducting enriched carbon nanotube thin film transistors using metallic carbon nanotube electrodes, Industrial Advisory Board (IAB) Meeting for Professional Science Master's (PSM) Program, Orlando, USA, Feb 7, 2014
104. Contributed Talk : Narae Kang, and Saiful I. Khondaker, Investigating Organic Field-Effect Transistors with Reduced Graphene Oxide Electrodes of Different Reduction Efficiency, American Physics Society (APS) March Meeting, Denver, USA, March 3-7, 2014
103. Contributed Talk: Muhammad R Islam, Daeha Joung, Saiful I Khondaker, Towards parallel, CMOS-compatible fabrication of carbon nanotube single electron transistors, APS March Meeting 2014, Denver, Colorado, USA, March 3-7, 2014.
102. Contributed Talk: Udai Bhanu, Muhammad R Islam, Saiful I Khondaker, Carbon nanotube- MoS₂ p-n junction: Fabrication and transport properties, APS March Meeting 2014, Denver, Colorado, USA, March 3-7, 2014.
101. Contributed Talk : Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, Semiconducting enriched carbon nanotube thin film transistors using metallic carbon nanotube electrodes, Nano Florida, Gainesville, USA, Sep 29-30, 2013
100. Contributed Talk: Biddut Sarker, Narae Kang and Saiful I Khondaker. High Performance Organic Electronic Devices Using Carbon Nanotube Electrodes, 224th electrochemical society meeting, Toronto, May 14, 2013.
99. Contributed Talk: Daeha Joung and Saiful I. Khondaker, Electron Transport Properties of Reduced Graphene Oxide (RGO) Sheets, 224th electrochemical society meeting, Toronto, May 14, 2013.
98. Poster: Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, Carbon Nanotube Thin Film Transistors using Carbon Nanotube Electrodes, Graduate Research Forum, University of Central Florida, USA, April 2, 2013
97. Poster: Muhammad R Islam, Daeha Joung, Saiful I Khondaker, Design rule for the fabrication of carbon nanotube single electron transistor, Graduate Research Forum, University of Central Florida, USA, April 2, 2013

96. Poster: Udai Bhanu and Saiful I. Khondaker, Reduction of input power during sequential breakdown of aligned array carbon nanotubes, Graduate Research Forum, University of Central Florida, USA, April 2, 2013
95. Contributed Talk: Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, Carbon Nanotube Thin Film Transistors using Carbon Nanotube Electrodes, American Physics Society March Meeting, Baltimore, MD, March 18-22, 2013
94. Poster: Udai Bhanu and Saiful I. Khondaker, Reduction of input power during sequential breakdown of aligned array carbon nanotubes, 2013 Symposium of Florida Chapter of the AVS Science and Technology Society (FLAVS), March 4-5, 2013. Second Prize in Computational and Experimental Materials Science
93. Poster: Muhammad R Islam, Daeha Joung, Saiful I Khondaker, Design rule for the fabrication of carbon nanotube single electron transistor, 2013 Symposium of Florida Chapter of the AVS Science and Technology Society (FLAVS), March 4-5, 2013
92. Poster: Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, Carbon Nanotube Thin Film Transistors using Carbon Nanotube Electrodes, 2013 Symposium of Florida Chapter of the AVS Science and Technology Society (FLAVS), March 4-5, 2013
91. Poster: Narae Kang, Biddut K. Sarker, and Saiful I. Khondaker, Does Organic Field-Effect Transistors (OFETs) Device Performance using Single-walled Carbon Nanotubes (SWNTs) Depend on the Density of SWNT in the Electrodes? Nano Florida, September 28-19, 2012, University of South Florida.
90. Poster: Daeha Joung and Saiful I. Khondaker. Reduction efficiency dependent electronic transport properties of reduced graphene oxide sheets. Graduate Research Forum, University of Central Florida, USA, April 3, 2012. Received best poster award
89. Poster: Biddut K. Sarker and Saiful Khondaker. High-Performance Short Channel Organic Transistors Using Densely Aligned Carbon Nanotube Array Electrode. Graduate Research Forum, University of Central Florida, USA, April 3, 2012. Received best poster award
88. Contributed Talk: Biddut K. Sarker, Saiful Khondaker. Charge Injection Mechanism at Carbon Nanotube-Organic Semiconductor Interface. APS March Meeting, Boston, USA, (2012).
87. Contributed Talk: Saiful Khondaker, Biddut K. Sarker. Semiconducting Enriched Carbon Nanotube Aligned Arrays of Tunable Density and Their Electrical Transport Properties. APS March Meeting, Boston, USA, (2012).
86. Contributed Talk: Narae Kang, Biddut K. Sarker, Saiful Khondaker. Does Organic Field Effect Transistors (OFETs) Device Performance using Single-walled Carbon Nanotubes (SWNTs) Depend on the Density of SWNT in the Electrode? APS March Meeting, Boston, USA, (2012).
85. Poster: Udai Bhanu, Shashank Sekhar and Saiful I Khondker, 'Nanofissure formation during selective breakdown of mSWNT in an aligned array', 2012 Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, Orlando, FL. Awarded grand (first) prize in Computational and Experimental Material Science category.
84. Poster: Fears Alzubi, Saiful I. Khondaker, Planar Organic Photovoltaics for More Opportunities of Efficiency Enhancement and Parameters Controlling. 2012 Annual joint symposium of the Florida chapter of the American Vacuum Society and Florida Society for Microscopy, March 5-6, Orlando, FL. Received honorable mention in Energy-Related Materials category.
83. Poster: Biddut K. Sarker, Saiful Khondaker. Charge Injection Mechanism at Carbon Nanotube-Organic Semiconductor Interface. Florida Chapter of AVS Science and Technology Society (FLAVS), USA, March 2012.
82. Poster: Edwards G. Jimenez, Biddut K. Sarker, Saiful Khondaker. N-type Organic Field Effect Transistor Using Densely Aligned Carbon Nanotube Array Electrodes. APS March Meeting, Boston, USA, (2012).
81. Contributed Talk: Narae Kang, Biddut K. Sarker, Saiful Khondaker. Does Organic Field Effect Transistors (OFETs) Device Performance using Single-walled Carbon Nanotubes (SWNTs) Depend on the Density of SWNT in the Electrode? Florida Chapter of AVS Science and Technology Society (FLAVS), USA, March 2012.

80. Poster: Edwards G. Jimenez, Biddut K. Sarker, Saiful Khondaker. N-type Organic Field Effect Transistor Using Densely Aligned Carbon Nanotube Array Electrodes. Florida Chapter of AVS Science and Technology Society (FLAVS), USA, March 2012.
79. Contributed Talk: Daeha Joung and Saiful I. Khondaker, "Efros-Shklovskii Variable Range Hopping in Reduced Graphene Oxide Sheets" American Physical Society Annual Meeting, Boston, MA, March 2012.
78. Contributed Talk: Udai Bhanu, Shashank Shekhar and Saiful I. Khondaker, Nanofissure formation during selective breakdown of m-SWNT in an aligned array, American Physical Society Annual Meeting, Boston, MA, March 2012.
77. Contributed Talk: Muhammad R. Islam, Kristy Kormondy, Eliot Silbar, and Saiful I. Khondaker A general approach for high yield fabrication of CMOS compatible all semiconducting carbon nanotube field effect transistor, American Physical Society Annual Meeting, Boston, MA, March 2012.
76. Contributed Talk: Fears Alzubi, Saiful I. Khondaker, Planar Organic Photovoltaics for more Opportunities of Efficiency Enhancement and Parameters Controlling, American Physical Society Annual Meeting, Boston, MA, March 2012.
75. Contributed Talk: Biddut K. Sarker, Jianhua Liu, Lei Zhai, Saiful Khondaker; Organic field effect transistor fabricated by directly grown poly (3 hexylthiophene) crystalline nanowires on solution processed carbon nanotube aligned array electrodes; MRS Fall Meeting, Boston, USA, 2011.
74. Contributed Talk: Biddut K. Sarker, Jianhua Liu, Lei Zhai, Saiful Khondaker; Organic field effect transistor fabricated by directly grown poly (3 hexylthiophene) crystalline nanowires on solution processed carbon nanotube aligned array electrodes; APS March Meeting, Dallas, Texas, USA, 2011.
73. Poster: Biddut K. Sarker, Jianhua Liu, Lei Zhai* and Saiful I. Khondaker; Organic Transistor Fabricated by Directly Grown Poly (3-hexylthiophene) Crystalline Nanowires on Carbon Nanotube Electrodes; Florida Chapter of AVS Science and Technology Society (FLAVS), Orlando, Florida, March 2011
72. Contributed Talk: Daeha Joung, A, Chunder, Lei, Zhai, Saiful Khondaker, "Coulomb blockade and hopping conduction in graphene quantum dots array" American Physical Society Annual Meeting, Dallas, Texas, March 2011.
71. Poster: Daeha Joung, Lei Zhai, and Saiful I. Khondaker "Coulomb blockade and hopping conduction in chemically reduced graphene oxide sheets" FLAVS, Orlando, FL 2011.
70. Contributed Talk: Saiful I. Khondaker, Paul Stokes Low temperature electron transport spectroscopy of mechanically templated carbon nanotube quantum dots American Physical Society Annual Meeting, Dallas, Texas, March 2011.
69. Contributed talk: Muhammad R. Islam, Daeha Joung, Saiful Khondaker, Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts American Physical Society Annual Meeting, Dallas, Texas, March 2011.
68. Contributed talk: Kristy Kormondy, Paul Stokes, Saiful Khondaker High yield assembly and electron transport investigation of semiconducting-rich local-gated single-walled carbon nanotube field effect transistors American Physical Society Annual Meeting, Dallas, Texas, March 2011.
67. Poster: Kristy Kormondy, Eliot Silbar, Paul Stokes and Saiful I. Khondaker "High yield fabrication of semiconducting local-gated carbon nanotube field effect transistors." , Nanoflorida, September 2010, UCF (awarded 2nd prize)
66. Poster: Kristy Kormondy, Eliot Silbar, Paul Stokes and Saiful I. Khondaker, "High yield semiconducting local-gated carbon nanotube field effect transistors." Showcase of Undergraduate Research Excellence (SURE), April 2010, UCF
65. Poster: Eliot Silbar, Kristy Kormondy, Paul Stokes and Saiful I. Khondaker, High yield assembly and transport properties of semiconducting carbon nanotubes, Nanoflorida, September 2010, UCF
64. Poster: Eliot Silbar, Kristy Kormondy, Paul Stokes and Saiful I. Khondaker, High yield assembly and transport properties of semiconducting carbon nanotubes, Showcase of Undergraduate Research Excellence (SURE), April 2010, UCF
63. Contributed talk: Shashank Shekhar and Saiful I. Khondaker, Ultra-High Density Alignment of Carbon Nanotubes by Dielectrophoresis, NanoFlorida 2010.

62. Poster: Biddut K. Sarker, and Saiful I. Khondaker; Solution processed carbon nanotube aligned array electrodes for organic thin film transistor; NanoFlorida-2010, University of Central Florida, U.S.A, August 2010
61. Poster: Biddut K. Sarker, and Saiful I. Khondaker; Solution processed carbon nanotubes electrodes for organic thin film transistors; Graduate Research Forum, University of Central Florida, USA, April 2010
60. Poster: Biddut K. Sarker, M. Arif, Lei Zhai and Saiful I. Khondaker Near-infrared photoresponse in single walled carbon nanotube /polymer composite film; The third international Conference on vibrations at surfaces” Orlando, U.S.A, March 2010
59. Poster: Surajit Ghosh, Biddut K. Sarker, Anindarupa Chunder, Lei Zhai, and Saiful I Khondaker; “Position dependent photocurrent generation in large area reduced graphene oxide thin films; The third international conference on vibrations at surfaces” Orlando, U.S.A, March, 2010.
58. Poster: Daeha Joung, A, Chunder, Lei, Zhai, Saiful Khondaker, "Large scale assembly of reduced graphene oxide field effect transistors via ac dielectrophoresis" VAS 13, March 2010, Orlando Florida
57. Poster: Daeha Joung, A, Chunder, Lei, Zhai, Saiful Khondaker, High yield assembly and electron transport properties of chemically derived reduced graphene oxide field effect transistor • UCF Research Forum, March 2010, Orlando Florida
56. Poster: Daeha Joung, A, Chunder, Lei, Zhai, Saiful Khondaker, "Space charge limited conduction with exponential trap distribution in RGO sheets" Nano Florida, September 2010, Orlando Florida.
55. Poster: Muhammad Islam, M. Arif, Lei Zhai, and Saiful I. Khondaker, Low temperature charge transport in regioregular poly (3-hexylthiophene) crystalline nanoribbon field effect transistor, Annual Graduate Research Forum, April-2010, held in UCF.
54. Poster: Muhammad R. Islam, Shashank Shekhar and Saiful I. Khondaker, Luttinger-liquid behavior in aligned array of single wall carbon nanotube, NanoFlorida, September-2010, UCF (Awarded the 2nd best Prize in the graduate student poster competition)
53. Poster: Saiful I. Khondaker, Paul Stokes and Shashank Sekhar, Directed assembly of solution processed single walled carbon nanotubes via dielectrophoresis: from aligned array to individual nanotube devices, EIPBN, June 1-4, 2010 Anchorage, Alaska.
52. Contributed talk: Paul Stokes and Saiful I. Khondaker, Evaluating defects in solution processed carbon nanotube devices by low temperature transport spectroscopy, APS March meeting, Portland 2010.
51. Contributed talk: Daeha Joung, Anindarupa Chunder, Lei Zhai and Saiful I. Khondaker, High yield assembly and electron transport properties of reduced graphene oxide field effect transistors, APS March meeting, Portland 2010.
50. Contributed talk: Tanusri Pal, M. Arif and Saiful I. Khondaker, High Performance Phototransistor based on Nanostructured Regioregular Poly (3-hexylthiophene), APS March meeting, Portland 2010.
49. Contributed talk: Muhammad Islam, M. Arif, Lei Zhai and Saiful I. Khondaker, Temperature dependent charge transport in regioregular poly (3-hexylthiophene) crystalline nanoribbon field effect transistor, APS March meeting, Portland 2010.
48. Contributed talk: Biddut K. Sarker, M. Arif and Saiful I. Khondaker, Near-infrared photoresponse in single walled carbon nanotube/polymer composite films, APS March meeting, Portland 2010.
47. Contributed talk: Surajit Ghosh, Biddut K. Sarkar and Anindarupa Chunder, Lei Zhai, Saiful I. Khondaker , Photoresponse in reduced graphene oxide thin films, APS March meeting, Portland 2010.
46. Poster: Eliot Silbar, Kristy Kormondy, Paul Stokes and Saiful I. Khondaker, High yield assembly and transport properties of semiconducting carbon nanotubes, APS March meeting, Portland 2010.
45. Poster: Kristy Kormondy, Eliot Silbar, Paul Stokes and Saiful I. Khondaker, High yield semiconducting local-gated carbon nanotube field effect transistors, APS March meeting, Portland 2010.
44. Kristy Kormondy, Eliot Silbar, Paul Stokes and Saiful I. Khondaker, “High yield solution processed carbon nanotube field effect transistors assembled via AC dielectrophoresis." Nanoflorida, September 2009, UCF(awarded 2nd prize)

43. Kristy Kormondy, Eliot Silbar, Paul Stokes and Saiful I. Khondaker "High yield solution processed carbon nanotube field effect transistors assembled via AC dielectrophoresis." NSTC Undergraduate Research Showcase, July 2009, UCF
42. Eliot Silbar, Kristy Kormondy, Paul Stokes and Saiful I. Khondaker, High yield solution processed carbon nanotube field effect transistors assembled via AC dielectrophoresis, Nanoflora, September 2009, UCF
41. Eliot Silbar, Kristy Kormondy, Paul Stokes and Saiful I. Khondaker, High yield solution processed carbon nanotube field effect transistors assembled via AC dielectrophoresis, NSTC Undergraduate Research Showcase, July 2009, UCF
40. Poster: M. Arif, Jianhua Liu, Lei Zhai, and Saiful I. Khondaker, Low molecular weight poly (3-hexylthiophene) crystalline nanoribbons for high performance organic field effect transistors. Nano Florida 2009, September 25-26, Orlando, Florida
39. Poster: Daeha Joung, Anindarupa Chunder, Lei Zhai, Saiful I. Khondaker, Large scale assembly of reduced graphene oxide field effect transistors via ac dielectrophoresis, Nano Florida 2009, September 25-26, Orlando, Florida (received 1st place in poster award in Nanophotonics and Nanoelectronics category)
38. Poster: Tanusri Pal, M. Arif, Soumitra Kar, S. Santra, Saiful I. Khondaker, Photoresponse study in poly (3-hexylthiophene)/CdZnS nanocomposite field effect transistors, Nano Florida 2009, September 25-26, Orlando, Florida
37. Poster: Biddut K. Sarker, M. Arif, Lei Zhai and Saiful I. Khondaker, Near-infrared photoresponse in single walled carbon nanotube /polymer composite films, , Nano Florida 2009, September 25-26, Orlando, Florida (received 2nd place in poster award in Nanophotonics and Nanoelectronics category)
36. Poster: Shashank Shekhar, Paul Stokes, and Saiful I. Khondaker, Macroscopic Level Alignment of Carbon Nanotube Devices at Pre-Defined coordinates, Nano Florida 2009, September 25-26, Orlando, Florida
35. Contributed talk: Paul Stokes and Saiful I. Khondaker, Evaluation of surfactant free commercial carbon nanotube solution for directed assembly of nanoelectronic devices, Nano Florida 2009, September 25-26, Orlando, Florida
34. Poster: Biddut Sarker, M. Arif, Paul Stokes, and Saiful I. Khondaker, Near infrared photoresponse study of large area multi-walled carbon nanotube film with different electrode spacing. UCF research week, March 30 - April 3, 2009.
33. Poster: Daeha Joung, Y. Jompol, M. Arif, Subhajit Biswas, Soumitra Kar, Swadeshmukul Santra, and Saiful I. Khondaker, Photoconduction in CdZnS nanowire network film. UCF research week, March 30 - April 3, 2009.
32. Contributed Talk: Saiful I. Khondaker, Paul Stokes, Yodchay Jompol and Shashank Shekhar, Controlling the assembly and electronic properties of solution processed CNT devices: From large area arrays to individual CNT, APS March Meeting, Pittsburgh, March 16-20, 2009
31. Contributed Talk: Paul Stokes, Yodchay Jompol, and Saiful I Khondaker, Fabrication and transport properties of size tunable single-walled carbon nanotube quantum dots, APS March Meeting, Pittsburgh, March 16-20, 2009
30. Contributed Talk: Biddut Sarker, M. Arif, Paul Stokes, and Saiful I. Khondaker, Near infrared photoresponse study of large area multi-walled carbon nanotube film with different electrode spacing. APS March Meeting, Pittsburgh, March 16-20, 2009
29. Poster: Paul Stokes, Liwei Liu, Jinhua Zou, Lei Zhai, Qun Huo and Saiful I. Khondaker, Photoresponse in large area multi-walled carbon nanotube/ polymer nanocomposite films, APS March Meeting, Pittsburgh, March 16-20, 2009
28. Poster: Eliot Silbar, Paul Stokes, Yashira M. Zayas-Gonzalez and Saiful I. Khondaker, Solution processed large area field effect transistors from dielectrophoretically aligned arrays of single-walled carbon nanotubes. APS March Meeting, Pittsburgh, March 16-20, 2009
27. Poster: Biddut Sarker, M. Arif, Paul Stokes, and Saiful I. Khondaker, Near infrared photoresponse study of large area multi-walled carbon nanotube film with different electrode spacing. AVS Florida Chapter meeting, Orlando, March 8-12, 2009

26. Poster: Daeha Joung, Y. Jompol, M. Arif, Subhajit Biswas, Soumitra Kar, Swadeshmukul Santra, and Saiful I. Khondaker, Photoconduction in CdZnS nanowire network film. AVS Florida Chapter meeting, Orlando, March 8-12, 2009
25. Contributed Talk: Paul Stokes and Saiful I. Khondaker, Controlled fabrication of single electron transistor from single walled carbon nanotubes. NanoFlorida, Orlando, Florida Sep 2008 (received award for best oral presentation in Physics of Nanoscale Systems Session)
24. Poster: Eliot Silbar(*), Paul Stokes, Yashira M. Zayas(*) and Saiful I. Khondaker, Large Area Field Effect Transistors from Aligned Arrays of Single-Walled Carbon Nanotube, NanoFlorida, Orlando, Florida Sep 2008 (* denotes undergraduate students).
23. Contributed Talk: Paul Stokes and Saiful I. Khondaker, Local-Gated Single-Walled Carbon Nanotube Field Effect Transistors Assembled by AC Dielectrophoresis, UCF Research week, March 31-April 4, 2008. (Recipient award for best presentation in physical sciences)
22. Contributed Talk: Paul Stokes and Saiful I. Khondaker, Controlled Fabrication of single electron transistors from single-walled carbon nanotubes, APS March Meeting, New Orleans, March 2008.
21. Contributed Talk: Yi Liu, Liwei Liu, Paul Stokes, Harish Muthuraman, Qun Huo, and Saiful I. Khondaker Solution Processed Carbon Nanotube /PMMA Nano Composite Infrared Photodetectors, APS March Meeting, New Orleans, March 2008.
20. Contributed Talk: Liwei Liu, Paul Stokes, Artem E. Masunov, and Saiful I. Khondaker, Near infrared photoresponse in annealed CdSe nanocrystal films, APS March Meeting, New Orleans, March 2008.
19. Contributed Talk: Firoze Haque, Paul Stokes, Lei Zhai, and Saiful I. Khondaker, Temperature dependent charge transport properties of poly(3-hexylthiophene) block poly(styrene) copolymer field-effect transistor, APS March Meeting, New Orleans, March 2008.
18. Poster: Paul Stokes and Saiful I. Khondaker, Local-gated single-walled carbon nanotube field effect transistors assembled by AC dielectrophoresis, APS March Meeting, New Orleans, March 2008.
17. Poster: Liwei Liu, Paul Stokes, Harish Muthuraman, Qun Huo, and Saiful I. Khondaker, Solution processed carbon nanotube/PMMA nanocomposite bolometric infrared photodetectors, Nanoelectronic Devices for Defense and Security, Washington DC, 18-21 June, 2007
16. Contributed talk: Paul Stokes, Liwei Liu, and Saiful I. Khondaker, Low temperature electron transport measurements of dielectrophoretically assembled Single Wall Carbon Nanotube, UCF Research Week, April 2007
15. Poster: Yashira Zayas Gonzalez, Paul Stokes, and Saiful I Khondaker, Large Area Field Effect Transistor from Aligned Arrays of Single-Walled Carbon Nanotubes, National Science Foundation Research Experience for Undergraduates (NSF REU) and NSF International (Poland USA) poster presentation and symposium on Nanotechnology (Functional Nanostructures), University of Central Florida, 27 July 2007
14. Poster: Firoze Haque, Hui Chen, Harish Muthuraman, Lei Zhai, Qun Huo, and Saiful I. Khondaker, Electronic transport study of carbon nanotube and poly3-hexylthiophene composite in poly(methyl methacrylate) matrix. UCF Research Week, April 2007
13. Poster: P. Stokes, H. Mutharaman, H. Chen, Q. Huo, and Saiful I. Khondaker, Dispersion of Carbon Nanotubes in Polymer Matrices using Trifluoroacetic Acid as a Co-solvent, APS March Meeting, Denver 2007
12. Contributed talk: Paul Stokes, Liwei Liu, and Saiful I. Khondaker, Low temperature electron transport measurements of dielectrophoretically assembled Single Wall Carbon Nanotube, APS March Meeting, Denver 2007
11. Poster: Paul Stokes, Firoze Haque, and Saiful I Khondaker, Electronic Transport Study of Regioregular Polyhexylthiophene Block Copolymer. Materials Research Society Fall Meeting, Boston, November 26 - December 1, 2006.
10. Contributed talk: C. M. Ramsey, E. del-Barco, E. Mucciolo, F. Haque, S. I. Khondaker, M. Leuenberger, A. Mishra, and G. Christou Single-electron transport through a Mn₁₂ (2-thiophenecarboxylate) single-molecule magnet, APS March meeting 2006.
9. Contributed talk: T. Hanrath, S. I. Khondaker, and B. A. Korgel, "Fabrication and electronic behavior of single Ge nanowire devices," APS March meeting 2004.

8. Contributed talk: L. Wang, D. Fine, T. Jung, S. I. Khondaker, Z. Yao, H. V. Seggern, and A. Dodabalapur, "The electrical characteristics of nanoscale polymer field effect transistors," MRS Fall meeting 2003, Boston.
7. Contributed talk: L. Wang, D. Fine, T. Jung, S. I. Khondaker, Z. Yao, H. V. Seggern, and A. Dodabalapur, "Nanoscale Polymer field effect sensor", MRS Fall meeting 2003, Boston.
6. Contributed talk: S. I. Khondaker, L. Cheng, J. C. Henderson, D. W. Price Jr., J. M. Tour, and Z. Yao, "Electronic transport through individual molecules," APS March Meeting, 2003.
5. Contributed talk: S. I. Khondaker, K. Luo, and Z. Yao, "Single electron transistors with individual gold colloidal nanoparticles," APS March Meeting, 2003.
4. Contributed talk: T. Hanrath, S. I. Khondaker, Z. Yao, and B. A. Korgel, "Electron transport properties of Ge nanowires," APS March Meeting, 2003.
3. Contributed talk: R. C. Doty, S. I. Khondaker, Z. Yao, and B. A. Korgel, "Electron transport through metal nanocrystal superlattices," APS March Meeting, 2003.
2. Contributed talk: L. Wang, S. I. Khondaker, H. von Seggern, T. Jung, Z. Yao, Z. Bao, and A. Dodabalapur, "Characterization of 50 nm channel length polythiophene transistors," APS March Meeting, 2003.
1. Contributed talk: A. J. Gesquiere, D. Y. Kim, S. I. Khondaker, A. Dodabalapur, and P. F. Barbara, "Morphology of thin organic films in field effect transistor geometry," APS March Meeting, 2003.