Роль международной мобильности для формирования молодого исследователя и развития карьеры опытных ученых: влияние проектов 7РП CACOMEL и BYNANOERA

П.П.Кужир, С.А.Максименко

НИИ ЯП БГУ

Роль международной мобильности для формирования молодого исследователя и развития карьеры опытных ученых

Молодой ученый:

новый опыт,

умение работать в команде,

навык поиска актуальных и перспективных задач и их решения

Способность сформировать свою команду (группу) под научный проект

Молодой ученый → **Опытный ученый**

Роль международной мобильности для формирования молодого исследователя и развития карьеры опытных ученых

Опытный ученый:

новый опыт,

рост авторитета в профессиональной среде

(H-factor, публикации в высоко-рейтинговых журналах,

организация конференций (спецсекций),

участие в профессиональных сообществах),

привлечение научной молодежи и зрелых специалистов к выполнению

проектов, углубление и/или расширение поля деятельности,

рост и усиление научной команды;

подготовка, подача, получение и выполнение новых проектов

Стратегия развития приходит на смену стратегии выживания

Institute for Nuclear Problems, BSU

Laboratory of electrodynamics of nonhomogeneous mediums

~ 20 persons

2 ScD (Research professors)
5 PhD
5 PhD students
3 MS students
Undergraduate students

8 INTAS projects
2 NATO SfP
2 NATO linkage
1 ISTC
3 EU FP-7
3 IB BMBF (Germany)

Lecture Courses:
Physics of nanostructured materials,
Computational electrodynamics,
Light-matter interaction

Institute for Nuclear Problems, BSU

http://inp.bsu.by/

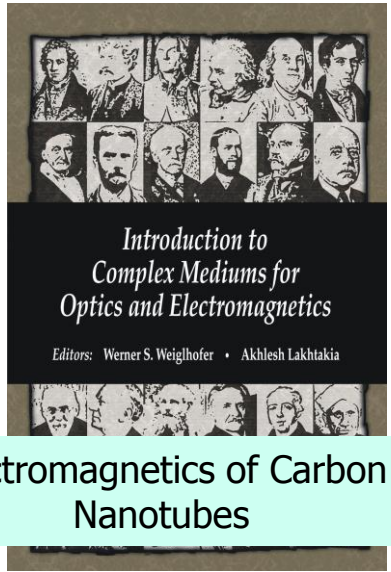
Laboratory of Electrodynamics of Nonhomogeneous Media

http://nano.bsu.by/

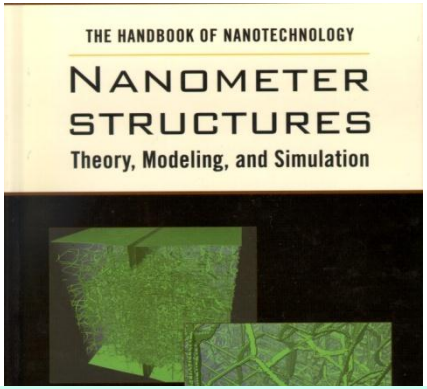
Research directions:

- Nano-scale elements of high-frequency (microwave-to-optical) electrical circuits
- Wave processes and signal propagation in nano-scale components and integrated nano-structured systems
- Electromagnetic response of composite materials with nano-sized fillers

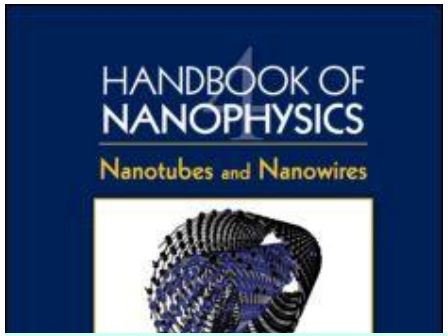
A new research discipline – nanoelectromagnetics – has been introduced



Electromagnetics of Carbon Nanotubes



Nanoelectromagnetics of low-dimensional structures



Terahertz radiation from carbon nanotubes

Финансирование

Республиканский бюджет / МНТС = 50/50

Nanoelectro-magnetics

Institutional Development of Applied Nanoelectromagnetics: Belarus in ERA Widening, **FP7-266529 BY-NanoERA**

Nanocarbon based components and materials for high frequency electronics, **FP7-247007 CACOMEL**

Задания ГКПНИ, проекты Минобразования, молодежные гранты Минобразования

БРФФИ

Terahertz applications of carbon-based nanostructures, **FP7-230778 TERACAN**

Nanocarbon based composite materials for electromagnetic applications **ISTC B-1708**

CNT-based composite materials for electromagnetic shielding in microwaves, **NATO CBP.EAP.CLG 98391**

BY-NANOERA Consortium

Institutional Development of Applied Nanoelectromagnetics: Belarus in ERA Widening

Institut für Festkörperphysik TUB
A. Hoffmann

FP7-266529

Inst for Nuclear Problems BSU
S.Maksimenko

Central Laboratory Physico-Chemical Mechanics, Sofia
R.Kotsilkova

National Institute Nuclear Physics, Frascati **S.Belucci**

Inst of Electronic Structure and Laser, Greece
M.Kafesaki

Institute of System Analysis and Information Support
O.Meerovskaya

Sci & Techn Park "Politechnik" BNTU
L.Shmygova

FP7-266529 BY-NanoERA: *Objectives*

Institutional Development of Applied Nanoelectromagnetics: Belarus in ERA Widening

As a principal goal, the project implies

Reinforcement of the cooperation capacities of INP BSU in ERA through the institutional development of the new research discipline – applied nanoelectromagnetics

- ✓ Организация конференции и спецсекций, посвященных наноэлектромагнетизму, на крупных конференциях;
- ✓ Аналитический обзор современного состояния и тенденций развития наноэлектромагнетизма;
- ✓ Формулировка долгосрочной стратегии развития научного коллектива (лаборатории электродинамики неоднородных сред НИИ ЯП БГУ);
- ✓ Усиление прикладной составляющей исследований;
- ✓ Налаживание и укрепление МНТС;
- ✓ Подача новых научных проектов на конкурсы (FP7, Horizon 2020) – необходим высокий уровень экспертизы.

Nano carbon based components and materials for high frequency electronics

Partner Number	Partner name	Partner short name	Country
1 (beneficiary)	Technische Universität Berlin, Institut für Festkörperphysik	TUB	Germany
2 (partner organization)	University of Joensuu	UJO	Finland
3 (partner organization)	Università degli Studi di Napoli Federico II	UNF	Italy
4 (partner organization)	University of Latvia, Institute of Solid State Physics	ISSP	Latvia
5 (partner organization)	Belarus State University, Institute for Nuclear Problems at	INP	Belarus
6 (partner organization)	A.M. Prokhorov General Physics Institute of Russian Academy of Sciences	GPI	Russia
7 (partner organization)	Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences	IGIC	Russia

EU FP7 CACOMEL project FP7-247007

Трансфер знаний

Table 1: *List of Work Packages*

Work package n°	Work package title	*Beneficiary*/Partner organisation short name	Start month	End month
1	Electromagnetic compatibility in nano scale	*TUB, UNF* / INP, IGIC	13	48
2	CNTs as interconnectors: the role of spatial irregularity	*TUB, ISSP, UNF* / INP, IGIC	1	48
3	Nonlinear optics of CNTs	*TUB, UJO* / GPI, INP	7	48
4	High-frequency response of nanocarbon-based materials	*UJO, ISSP, TUB* / GPI, INP	1	42

People
International Research Staff Exchange Scheme

Annex I - "Description of Work"

DESCRIPTION OF WORK

PART A

1. *Grant agreement* details

Full Title: Fundamental and Applied Electromagnetics of Nano-Carbons

Acronym: FAEMCAR

Proposal Number: 318617

Scientific Panel: Physics

Grant Agreement Number: PIRSES-GA-2012-

Duration of the project: 48 months

2. List of participants (*beneficiaries* and *partner organisations*)

Partner Number	Partner name	Partner short name	Country
1 *Beneficiary* 1	Lambin, Philippe	LPS	Belgium
2 *Beneficiary* 2	Márk, Gezá	MFA	Hungary
3 *Beneficiary* 3	Bellucci, Stefano	LNF	Italy
4 *Beneficiary* 4	Banys, Juras	LPTDS	Lithuania
5 Partner 5	Kuzhir, Polina	INP	Belarus
6 Partner 6	Chernozatonsky, Leonid	IBCP-RAS	Russia
7 Partner 7	Dovbeshko, Galyna	IP-NASU	Ukraine

Work package n°	Work package title	*Beneficiary*/partner organisation short name	Start month	End month
1	Synthesis and fuctionalization of multi-walled CNTs and fabrication of composite materials on the basis of different forms of nanocarbon, both laboratory made and commercially available	*LNF* / INP, IP-NASU	1	36
2	Electromagnetic response of pure nanocarbons and nanocarbon-based composites in radio, microwave and THz frequency ranges	*LPS, MFA, LPTDS* / INP, IBCP-RAS	1	36
3	Electromagnetic wave interaction with functionalized nanocarbons. Radio frequency and microwave response of saline CNT solutions	*LPS, MFA, LPTDS* / INP, IBCP-RAS, IP-NASU	12	48
4	Electromagnetics of graphene and graphene-like structures	*LPS, MFA, LNF* / INP, IBCP-RAS	6	48

Future EU FP7 IRSES project FAEMCAR

PHYSICAL REVIEW B **85**, 165435 (2012)

Experimental evidence of localized plasmon resonance in composite materials containing single-wall carbon nanotubes

M. V. Shuba, A. G. Paddubskaya, A. O. Plyushch, P. P. Kuzhir, G. Ya. Slepyan, and S. A. Maksimenko
Institute for Nuclear Problems, Belarus State University, Bobruiskaya 11, 220050 Minsk, Belarus

V. K. Ksenevich and P. Buka
Department of Physics, Belarus State University, Nezalezhnastsi Avenue 4, 220030 Minsk, Belarus

D. Seliuta, I. Kasalynas, J. Macutkevic, and G. Valusis
Center for Physical Sciences and Technology, A. Gostauto 11, LT-01108 Vilnius, Lithuania

C. Thomsen
Institut für Festkörperphysik, Technische Universität Berlin, Hardenbergstraße 36, D-10623 Berlin, Germany

A. Lakhtakia
Nanoengineered Metamaterials Group, Department of Engineering Science and Mechanics, Pennsylvania State University, University Park, Pennsylvania 16802-6812, USA

PHYSICAL REVIEW B **81**, 205423 (2010)

Terahertz conductivity peak in composite materials containing carbon nanotubes: Theory and interpretation of experiment

G. Ya. Slepyan, M. V. Shuba, and S. A. Maksimenko
Institute for Nuclear Problems, Belarus State University, Bobruiskaya 11, 220050 Minsk, Belarus

C. Thomsen
Institut für Festkörperphysik, Technische Universität Berlin, Hardenbergstr. 36, D-10623 Berlin, Germany

A. Lakhtakia

Projects visibility (2010-2012)

Invited talks: 7 (INP)
e.g. *2010 International Symposium on Electromagnetic Theory (Berlin)*

Talks: 45 in total, most of them are oral presentations

Papers published: 39 in total in PRB, APL, DMR ,etc

Thin Solid Films 519 (2011) 4114–4118

Contents lists available at ScienceDirect

Thin Solid Films

journal homepage: www.elsevier.com/locate/tsf

Microwave probing of nanocarbon based epoxy resin composite films: Toward electromagnetic shielding

P. Kuzhir [a,*], A. Paddubskaya [a], D. Bychanok [a], A. Nemilentsau [a], M. Shuba [a], A. Plusch [a], S. Maksimenko [a], S. Bellucci [b], L. Coderoni [b], F. Micciulla [b], I. Sacco [b], G. Rinaldi [c], J. Macutkevic [d], D. Seliuta [d], G. Valusis [d], J. Banys [e]

Diamond & Related Materials 19 (2010) 91–99

Contents lists available at ScienceDirect

Diamond & Related Materials

journal homepage: www.elsevier.com/locate/diamond

Dielectric properties of a novel high absorbing onion-like-carbon based polymer composite

J. Macutkevic [a,*], P. Kuzhir [b,2], D. Seliuta [a,1], G. Valusis [a,1], J. Banys [c,3], A. Paddubskaya [b,2], D. Bychanok [b,2], G. Slepyan [b,2], S. Maksimenko [b,2], V. Kuznetsov [d,4], S. Moseenkov [d,4], O. Shenderova [e,5], A. Mayer [f,6], Ph. Lambin [f,6]

APPLIED PHYSICS LETTERS **97**, 073116 (2010)

Terahertz sensing with carbon nanotube layers coated on silica fibers: Carrier transport versus nanoantenna effects

Dalius Seliuta,[1,2,a)] Irmantas Kašalynas,[1] Jan Macutkevic,[1] Gintaras Valušis,[1] Mikhail V. Shuba,[3] Polina P. Kuzhir,[3] Gregory Ya. Slepyan,[3] Sergey A. Maksimenko,[3] Vitaly K. Ksenevich,[4] Vladimir Samuilov,[5] and Qi Lu[5]

Current activity

To organize a set of workshops and seminars on NEM;

A The talk **"Presentation of new EU projects FP7-247007 CACOMEL and FP7-266529 BY-NanoERA"**, has been delivered by Sergey Maksimenko

NATURE PHOTONICS | VOL 4 | OCTOBER 2010

The Second International Workshop on Nanocarbon Photonics and Optoelectronics Koli/North Karelia/Finland 1-6 August 2010

Current activity

Int. Conference on Electromagnetics in Advanced Applications September 12-17 2011 Torino, Italy

SS on Electromagnetics of nanowires and nanotubes

THURSDAY, SEPTEMBER 15

SALA GIOLITTI	SALA EINAUDI	SALA SELLA	SALACAVOUR	SALA STAMPA
Session 31 ICEAA Integral Equations And Hybrid Methods Chairs: C. Brennan, D.B. Davidson, J-F. Lee, Y. Shao 8:20 ÷ 12:00	**Session 33 IEEE APWC** Cognitive Radio &Wireless Networks Chairs: D.Erricolo, K. Kagoshima 8:00 ÷ 12:20	**Session 36 ICEAA** Organized by D.V. Giri High-Power Electromagnetics Chairs: D.V. Giri, L. Kahlberg 8:20 ÷ 12:00	**Session 38 ICEAA** Inverse Scattering and Remote Sensing Chairs: R. Pierri, R. Salimene 8:00 ÷ 11:00	**Session 42 IEEE APWC** Organized by E. Pancera and W. Wiesbeck Ultra Wide-band Body Area Networks and Medical Applications Chair: W.Wiesbeck 8:20 ÷ 11:00
			Session 39 ICEAA Organized by J. Simpson Propagation Models for VLF to SHF EM Waves Chairs: C.Carrano, J.Simpson 11:00 ÷ 12:20	
Session 32 ICEAA Finite Methods Chairs: C. Brennan, D.B.Davidson, J-F. Lee, Y. Shao 14:00 ÷ 17:00	**Session 34 IEEE APWC** Channel Modelling Chairs: A.V. Boriskin, E. Plaukinec 14:00 ÷ 16:00	**Session 37 ICEAA** Organized by F. Canavero Electromagnetic Analysis of Packages and Boards Chairs: F. Canavero, T. Suda 14:00 ÷ 18:00	**Session 40 ICEAA** Organized by G.Slepyan Electrodynamics of Nanowires and Nanotubes Chairs: G. Miano, G. Slepyan 14:00 ÷ 15:40	
	Session 35 IEEE APWC Antennas forWireless Applications Chairs: C. Ullrich, G. Virone 16:20 ÷ 18:00		**Session 41 ICEAA** Electromagnetic Applications to Biomedicine Chairs: D. Pauhe, O.H. Talcath 16:20 ÷ 18:00	
Coffee break 10:00 10:20 Lunch break 12:20 14:00 Coffee break 16:00 16:20				

A Special Session "Electrodynamics of nanowires and nanotubes" headed by Prof. G. Slepyan (INP) has been organized as a part of BY-NANOERA activity at the Intern Conf on Electromagnetics in Advanced Applications & IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications, September 12-17, 2011 Torino, Italy, http://www.iceaa.net/

Current activity

To organize a set of workshops and seminars on NEM;

A

http://www.nanomeeting.org/

Special Session
"Nanoelectromagnetics"

International conference on Physics, Chemistry and Applications of Nanostructures "Nanomeeting 2011", May 24-29, 2011, Special session on Nanoelectromagnetics has been organized under a support from BY-NANOERA. The support is acknowledged in the Conference Program and in the Conference Proceedings (World Scientific, 2011).

ORGANIZERS

Ministry of Education of Belarus
Belarusian State University of Informatics and Radioelectronics

Université de la Méditerranée Aix-Marseille II

Nanyang Technological University

EU FP7 project FP7-266529 BY-NANOERA

Centre National de la Recherche Scientifique

Belarusian Republican Foundation for Fundamental Research

Faldes

Motorola

1C Company

Professional Radio Systems

Fundamental and Applied NanoElectroMagnetics

FANEM' 12

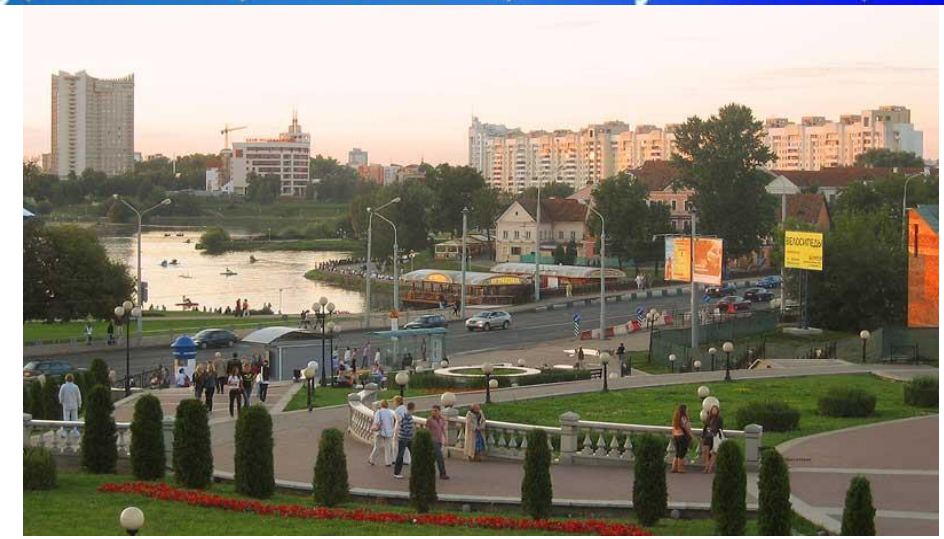
25th anniversary of the Research Institute for Nuclear Problems BSU

Belarusian State University, Minsk, Belarus, May 22-25, 2012

A

We acknowledge a financial support from

- **EU FP7 BY-NANOERA**
- **ISTC**
- **BSU**
- **Representative office of Optec Holding B.V. in Belarus**



Chairmen: O. Ivashkevich
S.Maksimenko

www.nano.bsu.by/

***Akhlesh Lakhtakia**, Pennsylvania State University, USA*

Elasticity at the nanoscopic scale
***Philippe Lambin**, Dept of Physics, FUNDP, Belgium*

Enhanced light-matter interaction in plasmonic nanostructures
***Sergey Gaponenko**, Stepanov Institute of Physics, Belarus*

Towards Single Photon Sources at Room Temperatures for Quantum Cryptography Application
***Axel Hoffmann**, Institut für Festkörperphysik, TU Berlin, Germany*

Solid-state based room temperature terahertz imaging systems
***Gintaras Valusis**, Center for Physical Sciences and Technology, Lithuania*

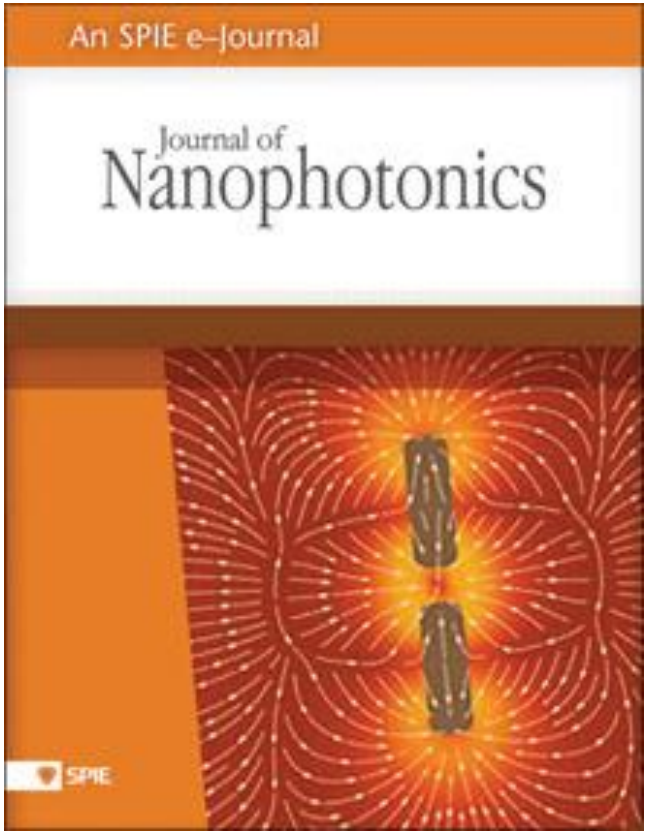
Concept of photonic density of states in nanoelectromagnetics: theory and applications
***Gregory Slepyan**, Research Institute for Nuclear Problems, Belarus*

Average H-factor is 28!

A special tutorial "Emerging Nanoscientific Developments" has been presented by 6 key lectures and 11 invited talks.

SPIE

Proceedings: A special issue "Fundamental and Applied Nanoelectromagnetics" is under development in ***Journal of Nanophotonics***, http://spie.org/x3650.xml



Impact Factor: 1.570*

Subject Category Rankings: 29th out of 77 journals in Optics; 37th out of 66 journals in Nanoscience & Nanotechnology*

*From the 2011 Science Edition of Thomson Reuters' Journal Citation Report®

Current activity

To prove necessity and promising capability of NEM in the core objective of FP7 Theme 4 'NMP' and ***to develop a concept of nanoelectromagnetics*** *as a perspective direction in NMP;*

B

Аналитический обзор современного состояния и тенденций развития наноэлектромагнетизма

http://nano.bsu.by/

Планируется спецвыпуск журнала «Наука и Инновации» Наноструктуры в электромагнитных полях

Current activity

***To develop the strategy of INP BSU** as a focus institution for the applied NEM evolution on the national and European levels;*

C A concept of the Strategy has been presented and discussed at

Policy Stakeholder Conference on "EU-EECA Cooperation in Research and Innovation: The way towards 2020" (Warsaw, Poland 15-16/11/2011)

Benchmarking of the European, Eastern European and Central Asian RTDI Institutions from the field of Nano- Science/Nano-Technology, carried out in the frame of the project IncoNet EECA (http://www.inco-eeca.net/) at the

Kick-off Meeting, ZSI – Zentrum für Soziale Innovation, February 16 -17, 2012, Vienna, Austria

European evaluators visit the Institute for Nuclear Problems, April 10-14, 2012

Closing meeting, Athens, Greece 17-18 June, 2012

Оценка:

- ✓ **Высокая и продуктивная МНТС активность**
- ✓ **Хорошие публикации в рейтинговых журналах**

Молодежные гранты

INTAS Young Scientist Fellowship

Electrodynamical properties of a semiconductor quantum dot: The Influence of Local fields, from the INTAS Young Scientist Fellowship, 2005-2007, Ref. Nr 04-83-3607, grant holder: A.V.Magyarov, supervisors Dr. A. Hoffmann, (Berlin, Germany) and S.A. Maksimenko.

Endohedral metallofullerene peapod as a vibrator nanoantenna in the optical range: method of excitation and spectral-angular characteristics, from the INTAS Young Scientist Fellowship, 2006-2008, Ref. Nr 05-109-4595, grant holder: A..Nemilentsau, supervisors Prof. E. Campbell, (Gothenburg, Sweden) and S.A. Maksimenko.

Гранты международной федерации ученых (World Federation of Scientists, National Scholarship Programme in the frame of the topic "Science and Technologies for Developing Countries")

Nonlinear optical properties of carbon nanotube composites, World Federation of Scientists, National Scholarship Programme in the frame of the topic "Science and Technologies for Developing Countries", 2004. Grant holder A. Nemilentsau under supervision of S.A. Maksimenko

Optical properties of carbon nanotube based composite medium, World Federation of Scientists, National Scholarship Programme in the frame of the topic "Science and Technologies for Developing Countries", 2008. Grant holder M. Shuba under supervision of S.A. Maksimenko

Грант международной федерации ученых (World Federation of Scientists, National Scholarship Programme in the frame of the topic "Science and Technologies for Developing Countries"). «Диэлектрические свойства полимерных композитных матермалов на основе наноуглерода», 2010/2011, Получатель гранта: аспирант Д.С. Быченок, научный руководитель: С. А. Максименко

Грант международной федерации ученых (World Federation of Scientists, National Scholarship Programme in the frame of the topic "Science and Technologies for Developing Countries"). «Rabi waves in quantum dot-based nanostructures», 2011/2012, Получатель гранта: аспирант Е.Ерчак, научный руководитель: Г.Я.Слепян

Молодежные гранты

Гранты РФФИ, конкурс "Научная работа молодых ученых из стран СНГ в российских научных организациях"

Грант РФФИ, конкурс "Научная работа молодых ученых из стран СНГ в российских научных организациях" МОБ_СНГ_СТ 2010 Г. "Научная работа молодого ученого немиленцева Андрея Михайловича из Белоруссии в Институте неорганической химии им. Курнакова РАН".

Грант РФФИ, конкурс "Научная работа молодых ученых из стран СНГ в российских научных организациях" МОБ_СНГ_СТ 2010 Г. и МОБ_СНГ_СТ 2011 Г. "Научная работа молодого ученого Быченка Дмитрия Сергеевича из Белоруссии в Институте Неорганической химии СО РАН"., Новосибирск, Грантополучатель Быченок Д.С. http://www.rfbr.ru/default.asp?doc_id=29828

Гранты БРФФИ для молодых ученых, Гранты Минобразования для студентов, аспирантов, магистрантов,

Грант БРФФИ для молодых ученых Ф09М-071 «Эффект насыщения поглощения в композитных материалах на основе углеродных нанотрубок», 2009-2011, н.р. А.М. Немиленцев

Грант БРФФИ для молодых ученых Ф07М-069 «Влияние замедления собственных волн одностеночных, многостеночных углеродных нанотрубок и пучков из них на электродинамические параметры этих объектов», науч.рук. М. Шуба, 2007-2009

……

Научные работы молодых ученых ЛЭНС НИИ ЯП БГУ неоднократно признавались лучшими на конкурсах Минобразования и БГУ

Лучшая СНИЛ 2008 – 2010, 2011 в БГУ в номинации Научно-исследовательская и инновационная деятельность

БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

ДИПЛОМ

Конкурс на лучшую студенческую научно-исследовательскую лабораторию по итогам 2008 – 2010 гг.

НАГРАЖДАЕТСЯ

Студенческая научно-исследовательская лаборатория

«Электромагнитные процессы в наноструктурах»

Руководители:

Максименко Сергей Афанасьевич,

Кужир Полина Павловна

Научно-исследовательский институт ядерных проблем

Победитель конкурса в номинации

Научно-исследовательская и инновационная деятельность

Ректор С. В. Абламейко

Приказ ректора БГУ
от 12.04.2011 г. № 538-ПК

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Maksimenko, S. A. (B. A. Maksimenko)

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Personal

Name	Maksimenko, S. A.
Other formats	Maksimenko, Sergey A. Maksimenko, Sergey Maksimenko, S. A. Maksimenko, Serguei A.
Author ID	7004065644
Affiliation	Belarusian State University, Institute of Nuclear Problems, Minsk Belarus

Research

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Shuba, M.V., Maksimenko, S.A., Slepyan, G.Y., Hanson, G.W. Potential of carbon nanotubes for cancer cells therapy in an RF-exposing field *(2012)NATO Science for Security Series B: Physics and Biophysics*

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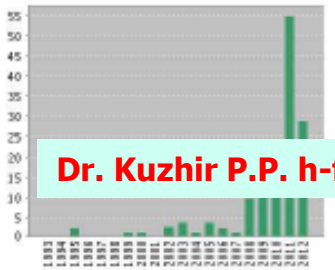

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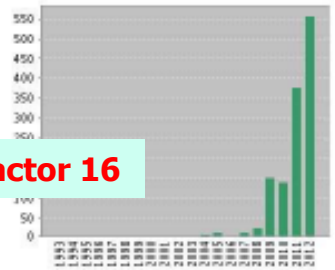

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Source history	IRMMW-THz 2010 - 35th International Conference on Infrared, Millimeter, and Terahertz Waves, Conference Guide	View documents
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Castillo, F.Y., Grady, B.P. Filler reaggregation and network formation time scale in extruded high-density polyethylene/multiwa... carbon nanotube composites *(2012) Polymer Engineering and Science*

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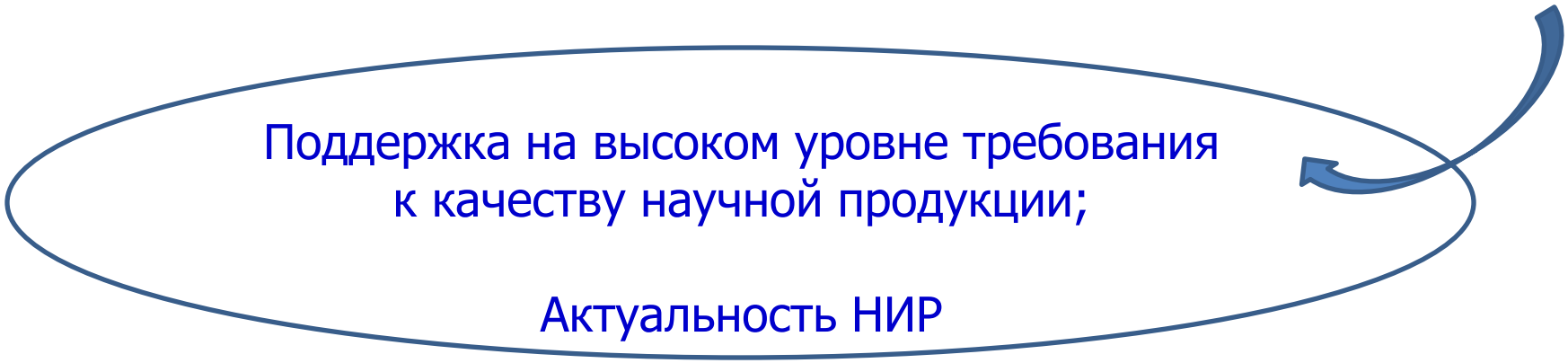

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