PERSONAL INFORMATION



IBRAYEV NIYAZBEK KHAMZAULY

- Republic of Kazakhstan, Karaganda, Universitetskaya st., 28 academician E.A. Buketov KarU
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Ohttp://www.researcherid.com/rid/C-2957-2015

Датарождения:14/10/1954

PLACE OF WORK, POSITION academician E.A. Buketov KarU, Research Professor of the Department of Physics and Nanotechnology

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)	Doctor of Physical and Mathematical Sciences, Professor
WORK EXPERIENCE	
	-• 1977-1979trainee researcher at the E.A.Buketov KarSU.
Place and date	1979-1982 -Postgraduate student of Lomonosov Moscow State University
	1982-1985-Lecturer at the Department of Optics and Spectroscopy (Faculty of Physics) E.A. Buketov KarSU
	1985-1988-Senior Lecturer at the Department of Optics and Spectroscopy (Faculty of Physics) KarGUim.E.A.Buketova
	 1988-1999Associate Professor of the Department of Optical Methods of Research and Analysis of the E.A.Buketov KarSU
	1999 - 2015-Professor of the Department of Optics and Spectroscopy of KarGUim.E.A. Buketova:
	1999-2004-Head of the Department of Optics and Spectroscopy of KarGUim.E.A. Buketova
	2004-2005-Dean of the Faculty of Physics of the E.A.Buketov KarSU
	Since 2008. Currently-Director of the Institute of Molecular Nanophotonics
	 Since 2015.Currently - Professor of the Department of Physics and Nanotechnology of the E.A.Buketov KarU:
	Since 2014.Currently, he is the Chairman of the Dissertation Council for the defense of doctoral dissertations at the E.A. Buketov KarU.

EDUCATION AND PROFESSIONAL TRAINING					
Education	 1972-1977 student of the Physics Department of KarSU. 1979-1982 postgraduate student of the Physics Faculty of Lomonosov Moscow State University. 1998.– Doctor of Physical and Mathematical Sciences. 2001–Professor. 				
Professional trainings, Scientific trips	 Radiation-thermal effects in inorganic materials, Tomsk, 2015, 2016, Theoretical and Experimental Chemistry, Karaganda, 2017 and others. 				
SKILLS DEVELOPMENT INFORMATION					
PERSONNEL QUALITIES					
Native language	Kazakh				
LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral s	peech	
English	A2	A2	A2	A2	A2

Russian		B2	B2	B2	B2	B2
			LANGUA	GE CERTIFIC	ate: No	
Digital skills	Advan systen	ced user: Micros ns: Windows.	soft Office (Wor	d, Excel, Powe	rPoint).Knowledg	e of operating
Other skills (hobbies)						
ADDITIONAL INFORMATION						
Main publications	1. 2. 3.	E. Seliverst Kucherenko energy trans the fluoresc <i>Lumin</i> . 10.1016/j.jlut D. Afanasye interac- tion halogen-con <i>Photochem</i> . 394,112442, 2; Impactfactor: E.V. Selivers Sil- ver Nar TiO ₂ /Graphe 128(9),	ova, N. Ib Competitive sfer betweer 235, min.2021.11 ev, N.Ibraye on recomb tain- ing de 2020https:// 3.261. stova, N.Kh. noparticles of ene Oxide N	rayev, G. e influence i chromoph- ies of in- 118000, 8000; Impa- v, A.Nurma- bination lum erivative po <i>Ph</i> doi.org/10.1 Ibrayev, A.2 on the Pho anocompos 1449-14	Omarova, A. of the plas ores and Ag dopolycarboc 2021 ct factor: 3.28 khanova. Eff inescence of ly-N-epoxypro <i>totobiol.</i> 016/j.jphotoch Zh. Zhumabel todetecting F ite. <i>Optics ar</i> 157,	Ishchenko, M. mon effect and nanoparticles on yanine dyes. <i>J.</i> https://doi.org/ ect of spin-orbit dye in films of opylcarbazole. <i>J.</i> Anem.2020.11244 kov.The Effect of Properties of the <i>nd Spectroscopy</i> , 2020.
	4.	https://doi.or N.Kh. Ibraye in silver nan 1,3,5,7,8- molecules in 115, 246, 2	g/10.1134/sl ev, A.K. Aimi oparticles of pentame of film of pore 2019 https://	0030400x20 ukhanov. In n the prope thyl-2,6-diet ous aluminu / doi.org/10	090192 fluence of pla rties of stimul hylpyrromethe im oxide. <i>Opt</i> .1016/j.optlas	smon resonance ated emission of enedifluoroborate t. Laser Technol. tec.2019.02.040;
	5.	N. Ibrayev, E effect in the FRET https://doi.or	E.Seliverstov donor-accep <i>J. Lu</i> g/10.1016/j.j 2.961	va, N.Zhuma otor pairs of <i>min.</i> 2 ilumin.2019.	abay, D.Temir dyes with var 14, 116 116594;	bayeva Plasmon ious efficiency of 5594, 2019
	6.	N.Kh.Ibrayev Active laser electron- uns <i>Appl.</i> <i>LasersO</i> .125 Impactfactor:	v, A.A.Ishcl medium fo symmetrical 5,182,2019ht 1.8	henko, D.A r near-infra polymething <i>Phy</i> . ttps://doi.org	A.Afanasyev, red spectral e dye and silv s. p/10.1007/s00	N.D.Zhumabay. range based on er nanoparticles. <i>B-</i> 340-019-7292-y;
	7.	N.İbrayev, E denko, N.Da ofcationic po deriva- tives	.Seliverstova avydenko. F olymethine c of poly-N-e	a, D.Afanas eatures of lye in the n poxypropyl	yev, A.Nurma deactivation on natrices of ha carbazole. <i>J.</i>	khanova, I.Davy- of excited states Ilogen-containing <i>Lumin</i> . 124, 349,

 2018 Impact factor (2018): 2.732.
 Md.Moniruddin, B.Ilyassov, X.Zhao, E.Smith, T.Serikov, N.Ibrayev, R.Asmatulu, N Nuraje. Recent progress on perovskite materials in photo- voltaic and water splitting applications. *Materials Today* *Energy* 7, 246, 2018 https://doi.org/10.1016/j.mtener.2017.10.005

- N.Kh.Ibrayev, E.V.Seliverstova, A.A.Ishchenko, M.A.Kudinova.Theef - fect of sulfonate groups on spectral-luminescent and photovoltaic proper- ties of squarylium dyes. *J. Photochem. Photobiol. A* 306, 570, 2017 https://doi.org/10.1016/j.jphotochem.2017.06.029; Impact factor: 2.915.
- 10. N.Kh.Ibrayev, B.R.Ilyassov, D.A.Afanasyev. Influence of the morphol- ogy of ZnO nanostructures on luminescent and photovoltaic properties. *Optics and Spectroscopy* 122, №3, 2017.
- M. Moniruddin, B.Ilyassov, E. Seliverstova, Y.Shabdan,N.Bakranov, N.Ibrayev, N.Nuraje Bioinspired study of energy and electron transfer in photovoltaic system *Journal of Experimental Nanoscience*. 1-12. 2017 https://doi.org/10.1080/17458080.2017.1321794 (IF 0.863)

The number of published scientific and educational works is more than 600, including:

—Vzhurnalahpobazessories–more than 100;

The number of published scientific and educational - methodical works - more than 160, of which:

- in journals on the Web of Science database - 26:

- in publications on the Scopus database 15;
- in publications recommended by Committee for Quality Assurance in Education and Science of MES RK 47;
- in publications placed in the RSCI database, including journals from the list of VAK 13;
- monographs 2;
- textbooks, teaching aids, electronic textbooks (co-authored) 8
- PCF:
 - "Photo-induced electronic processing of nanocomposite materials for "green" energy" (customer-MONRC; 2015-2017; position-project manager, Chief Scientific Employee);
 - "Nanoplasmonics: synthesis of nanostructures, research of properties and modern applications" (customer-MONRC; 2018-2020; position-project manager, Chief Scientific Employee);
 - "Magnetic Spineffectynafotoprocess in semi-conductive polymers" (customer-MONRC; 2015-2017; position -Project Manager, Chief Scientific Employee);
- - "Creation of photovoltaic cells based on dye molecules and metal nanoparticles" (customer-MONRC; 2015-2017; position-Project manager, Chief Scientific Employee);
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 - "Development and research of new nanocomposite materials for photocatalysation of photodetectors".(customer-MONRC;2018-2020;positionproject manager, Chief scientific employee);
 - "Plasmon-enhanced Photophysical Processes in Condensed Molecular" (international collaboration, Institute of Organic Chemistry of the National Academy of Sciences of Ukraine (Ukraine), Ishchenko A.D.H.N., Professor, Corresponding Member of the National Academy of Sciences of Ukraine)(customer-MONRC;2020-2022;position-project manager, chief scientific employee);
 - "Functional nanomaterials based on carbon quantum dots" (customer-MONRC; 2021-2023; position-Project Manager, Chief Scientific Officer)

Participation in the implementation of scientific projects --member of the National Scientific Council "Scientific Research in the field of natural sciences".

- is a member of the advisory board of "Physics" of the Ministry of Education and Science of the Republic of Kazakhstan for the review of textbooks for secondary schools.
- Member of the editorial board of the journal "EurasianPhysicalTechnicalJournal".

- -Member of the editorial board of the journal "EurasianJournalofPhysicsandFunctionalMaterials".

- - member of the editorial board of the journal "Bulletin of Karaganda University. Physics series".

Membership in professional scientific organizations

Awards and titles	 Scholarship holder of the State Scientific Scholarship of the Ministry of Education and Science of the Republic of Kazakhstan for scientists who have made an outstanding contribution to the development of science and technology(2000-2004,2006-2008,2010-2012, 2012-2013,2013- 2014, 2020-2021); Holder of the badge of the Ministry of Education and Science of the Republic of Kazakhstan "For merits in the development of science of the Republic of Kazakhstan" (2013); Scholarship
	- holder of the International Scholarship of the Republic of Kazakhstan "Bolashak" (2010)
	- Two-time holder of the State Grant "The Best teacher of the University" (2006,2011). Has the gratitude of the Minister of Education and Science of the Republic of Kazakhstan (2016).
	- Holder of the diploma of ClarivateAnalytics company in the nomination "The most cited Kazakhstani researches in the field of "green energy" submitted by WEBOF
	 Sciencecorecollection 2012-2016 (2017). Holder of the certificate for high publication activity in the journals of the publishing house Nature Springer (2017).
	 Holder of the diploma of the company "Topresearcherinengineering andtechnologies" (CertificatScopusAward-2018). Photonics of nanostructures
	2. Optical and microscopic methods for studying nanostructures and nanomaterials
Courses	 4. Functional nanomaterials production, properties, application 5. Electronic processes in nanostructured media
Professional and scientific interests	 - the development of scientific basic technologies for obtaining functional nanomaterials based on various classes of organic and inorganic materials and the study of the influence of nanostructures on their optical, electrical and magnetic properties; - preparation and research of nanocomposite materials for organic-inorganic solar cells,
	photocatalysts for hydrogen production, photodetectors, active elements of lasers
SCIENTIFIC DATABASES IDENTIFIERS	

ResearcherlD:C-2957-2015 ORCIDID:0000-0002-5156-5015 Идентификатор РИНЦ: AuthorlDScopus:9333698600