



FACULTY OF PHYSICS AND MATHEMATICS

UrSU



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	• 2009 - 2013 Urgench State University, Bachelor (Diploma)
EDUCATION:	• 2013 - 2015 National University of Uzbekistan, Master's degree (diploma)
	• 2019 –2022 Jeju National University (South Korea), Doctoral course, Ph.D. in
	Energy and Chemical Engineering major
	• 2009-2013 y. – Bachelor's student at the Faculty of Physics and Mathematics,
	Urgench State University.
	• 2013-2015 y. – Master's student at the Faculty of Physics, National University of
	Uzbekistan.
	• 2015-2017 y. – Assistant Lecturer at the Department of Transport systems,
CAREER /	Urgench State University
EMPLOYMENT:	• 2017-2019 y Lecturer at the Department of Interfaculty general technical
	sciences, Urgench State University
	• 2019-2022 y. – Ph.D. Student at the Jeju National University, South Korea
	• 2022-2023 - Senior Lecturer at the Department of Physics, Urgench State
	University
	• 2023-present - Associate Professor at the Department of Physics, Urgench State
	University
SPECIALITY	Physics, Energy & Chemical Engineering
TEACHING SUBJECTS:	General Physics, Optical phenomena in semiconductor diodes, and Renewable energy
	sources.
	Plasma Physics, low-temperature atmospheric pressure plasma processing, the generation of
RESEARCH AREAS OF	plasma in a honeycomb catalyst, gliding arc plasma for gas conversion, plasma jet for thin
INTEREST:	film deposition, hydrogen generation, and applications of non-thermal plasma for air
	pollution control.
PROJECTS:	2017-2020. No. OT-F2-65 "Investigation of the laws of scattering of low-energy ions from
	the surface of $A^{III}B^{V}$ type semiconductor single crystals"

	2019-2019. Combined removal of NOx and soot using a plasma-assisted hydrocarbon SCR
	process.
	(2018.01.01-2019.12.31, KRICT, Korea)
	2019-2022. Combined monolithic catalyst and plasma for non-urea low-temperature NOx
	reduction system.
	(2019.09.30-2022.03.31, NRF, Korea)
	2019-2020. R&D of plasma device for ethylene removal.
	(2018.01.01-2020.12.31, National Fusion Research Institute, Korea)
	1. N. Matyakubov, D.B. Nguyen, S. Saud, Y.S. Mok, Enhancing the Selective
	Catalytic Reduction of NO_x at Low Temperature by Pretreatment of Hydrocarbons in
	a Gliding Arc Plasma, Ind. Eng. Chem. Res. 10.1021/acs.iecr.2c00025 (2022).
	2. N. Matyakubov, D.B. Nguyen, S. Saud, I. Heo, SJ. Kim, Y.J. Kim, J.H. Lee,
	Y.S. Mok, Effective practical removal of acetaldehyde by a sandwich-type plasma-
	in-honeycomb reactor under surrounding ambient conditions, J. Hazard. Mater. 415
	(2021) 125608. <u>https://doi.org/10.1016/j.jhazmat.2021.125608</u>
	3. D.B. Nguyen, N. Matyakubov, S. Saud, I.J. Heo, SJ. Kim, Y.J. Kim, J.H. Lee,
	Y.S. Mok, High-Throughput NOx Removal by Two-Stage Plasma Honeycomb
	Monolith Catalyst, Environ. Sci. Technol. 55 (2021) 6386-6396.
	https://doi.org/10.1021/acs.est.1c00750
I IST OF DUDI ICATIONS	
LIST OF FUDLICATIONS	4. D.B. Nguyen, S. Saud, N. Matyakubov, Y.S. Mok, S. Ryu, H. Jeon, S.B. Kim,
	Propagation of humidified air plasma in a sandwich-type honeycomb plasma reactor
	and its dependence on the ambient temperature and reactor diameter, Plasma Sources
	Sci. Technol. 29 (2020) 125016.
	5. S. Saud, D.B. Nguyen, R.M. Bhattarai, N. Matyakubov, I. Heo, SJ. Kim, Y.J.
	Kim, J.H. Lee, Y.S. Mok, Dependence of humidified air plasma discharge
	performance in commercial honeycomb monoliths on the configuration and key
	parameters of the reactor I Hazard Mater 404 (2021) 124024
	6. S. Saud, D.B. Nguyen, R.M. Bhattarai, N. Matyakubov, V.T. Nguyen, Y.S. Mok,
	Plasma-catalytic Ethylene Removal by a ZSM-5 Washcoat Honeycomb Monolith
	Impregnated With Palladium, J. Hazard. Mater. (2021) 127843.
	7. S. Saud, D.B. Nguyen, SG. Kim, N. Matyakubov, V.T. Nguyen, Y.S. Mok,
	Influence of Background Gas for Plasma-Assisted Catalytic Removal of Ethylene in

a Modified Dielectric Barrier Discharge-Reactor, ACS Agricultural Science &
Technology (2021).
8. Shirjana Saud, Roshan Mangal Bhattarai, Duc Ba Nguyen, Nosir Matyakubov
Shankar Neupane, Byungjin Lee, Young Jin Kim, Jin Hee Lee, Iljeong Heo, Young
Sun Mok, A comprehensive study on scaling up ethylene abatement via intermittent
plasma-catalytic discharge process in a novel reactor configuration comprising
multiple honeycomb monoliths. Chemical Engineering Journal (2022) 140486.
https://doi.org/10.1016/j.cej.2022.14048