NITER



Mohammed Shahriar Sabuktagin

Electrical & Electrical Engineering

Bio

Mohammed Shahriar Sabuktagin graduated from the EEE department of BUET in 1998. He completed PhD degree in EE at VCU, USA. He worked as a research fellow at University of Alaska Fairbanks and University of Malaya. He has research and teaching interests in electronic devices, integrated circuits and electromagnetism.

Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
PhD	Electrical Engineering	Virginia Commonwealth University	USA	2005
BSc	Electrical and Electronic Engineering	BUET	Bangladesh	1998

Experience

Job Title	Organization	Location	From Date	To Date
Associate Professor	Presidency University	Bangladesh	2021	2023
Visiting Research Fellow	University of Malay	Malaysia	2013	2015
Postdoctoral Fellow	University of Alaska Fairbanks	USA	2006	2010

Research Activities

Research Interest

Subject	Description	Research Interest (Goal/ Target Indication)
Electronics	Wide Bandgap Semiconductor Device	GaN HFET Device Performance and Modelling
Electronics	Plasmonic Absorption Enhancement in Photovoltaic Device	Plasmonic Loss Reduction

Publications

Journal Article

SL. No-	Article Name	Link
1	M. Shahriar Sabuktagin and K. Syifa Hamdan, "Large plasmonic absorption enhancement effect of triangular silver nanowires in silicon," Royal Society Open Science, vol. 7, no. 7, p. 191926, Jul. 2020	https://doi.org/10.1098/rsos.191926
2	M. S. Sabuktagin, K. S. Hamdan, K. Sulaiman, R. Zakaria, and H. Ahmad, "Long Wavelength Plasmonic Absorption Enhancement in Silicon Using Optical Lithography Compatible Core-Shell-Type	https://doi.org/10.1155/2014/249476

	Nanowires," International Journal of Photoenergy, vol. 2014, pp. 1–6, 2014	
3	M. S. Sabuktagin, "Comment on „Direct measurement of minority carriers diffusion length using Kelvin probe force microscopy" [Appl. Phys. Lett. 75, 2435 (1999)]," Applied Physics Letters, vol. 96, no. 21, p. 216101, May 2010	https://doi.org/10.1063/1.3431743,
4	S. Sabuktagin, Yong-Tae Moon, S. Doğan, A. A. Baski, and H. Morkoc, "Observation of surface charging at the edge of a Schottky contact," IEEE Electron Device Letters, vol. 27, no. 4, pp. 211–213, Apr. 2006	https://doi.org/10.1109/led.2006.871177,
5	. S. Sabuktagin, S. Doğan, A. A. Baski, and H. Morkoç, "Surface charging and current collapse in an AlGaN⁄GaN heterostructure field effect transistor," Applied Physics Letters, vol. 86, no. 8, p. 083506, Feb. 2005	https://doi.org/10.1063/1.1867553

Conference Proceedings

SL. No-	Paper Name	Link
1	S. Sabuktagin, P. Karulkar, "Signal Integrity Optimizations for Vertical Interconnection Solder Balls of Chip Scale Package Stacks Using Full-Wave Simulations" IMPAS 2007 Conference Proceedings, November 11-15, San Jose, CA, USA	

Contact

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Institute – Faculty
Name of the Department: EEE
Position: Professor