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Sl. No.	Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No.	Nature of Paper (Journal/Conference/ Book Chapter)	Natio nal/I ntern ation al	ISBN No/ISS N No.	Journal Impact factor/SC I Index No.	Year of Publicati on
1	S. Singha Roy,	“On the Einstein relation under size quantization in heterostructures semiconductor”	Proc. SPIE 10111,USA, Quantum Sensing and Nano Electronics and Photonics	XIV, 1011133 (27 January 2017); doi: 10.1117/12.2249554 .				(27 January 2017);
2	Sabyasachi Sen ^{a*}	Role of asymmetric magnetic electrodes in tuning spin selective rectification action of borazine [B₃N₃H₆]	International Journal Chem. Phys. Volume 491, Pages 126–135 Year: 2017	Journal				

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2	S.Singha Roy and P.bandyopadhy	DNA and Heisenberg Spin System”,	Physica A, Revised, PHYSA-13-1218R2 , status Date : 11 Feb 2016	International Journal: (communicated)				2016
3	S. Singha Roy, Multimodel,	Nonlinearity with Photoelectric Nanoscale Quantum Dot	PP.-427-440.	Modelling , Computing and Technological Innovations, ICMCTI-2017, March 23-25,U.I.T., B.U, ISBN: 978-93-86256-60-7.Excel India Publishers, New Delhi.				2016
4	S. Singha Roy, ,	A simple theoretical analysis of DNA regularity network system	Abstract Book , PP-60,	3 rd Intenational Meet on advanced studies in Cell Signaling Network, CESIN-2016. 18-20 December 2016,				2016

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				IICB, Kolkata.				
5	S. Singha Roy,	Geometrical analysis of Quantum statistical Energy Under size quantization in Heterostructured Semiconductors.	Abstract Book , PP-58,	ICAMTPBCS-2016Calcutta mathematical Society , Kolkata.				Decemb er 9-11, 2016,
6	S. Singha Roy,	A Simple theoretical analysis of Fermi energy under Size Quantization of nanostructured material ,	Abstract Book , PP-27-28,	TEQIP Sponsored International Conference on Industry Interactive Innovations in Science, Engineering and Technology, I3SET-2016, JISCE, Kalyani.				October 25-26.
7	Swagata Bhattacharjee and Abhijit Biswas,	“Noise Analysis of III-V Anion Based MOSFETs” MICRO 2016, ISBN: 978-93-80813-45-5.				, ISBN: 978-93- 80813- 45-5.		2016
8	Swagata Bhattacharjee and Abhijit Biswas, "	Development of Noise model for InAsSb MOSFETs and their applications in low noise amplifiers"	(revised in Int. journal of Microsystems Technologies, Springer)					2016

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1	S.Singha Roy and P.bandyopadhy	Entropy Driven Denaturation and Bubble Nucleation in DNA Melting	Europhysics Letters,EPL, 109 , February 2015,48002.	<u>International Journal</u>		48002.		2015
2	S.Singha Roy	A Simple Theoretical Approach to the Fermi Energy Under Size Quantization with Quantum Mathematical Modelling in Nanostructured Materials.	pp 299-305	International Conference Proceedings Volume 146 of the series Springer Proceedings in Mathematics & Statistics, 14 October 2015		ISBN: 978-81-322-2546-1		2015
3	S.Singha Roy	The Einstein's theories in dimensional quantum mathematical model		International Conference Proceedings MSAT 2015 , IMBIC , 21-23 December 2015		ISBN:		2015
4	Swagata Bhattacharjee and Subhasri Dutta	A simulation Study of Nanoscale Ultrathin-body InAsSb-on-Insulator MOSFETs	Proceeding of ICAME 2015	International Conference	Inter national	ISBN: 978-81-322-2255-2		2015
5	Swagata Bhattacharjee and Abhijit Biswas	Study of low frequency noise in InAsSb channel MOSFETs	Proceeding of CODEC 2015	International Conference	Inter national	ISBN: 978-1-4673-9513		2015
6		A Simple Theoretical Approach	pp 299-305	International		ISBN: 9		2015

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1	S. Sen and S. Chakrabarti	In silico design of a tunable molecular spin filter using chromium-carbon-chromium chains	Chemical Physics Vol: 428, Page No. 34-42 Year: 2014	International Journal:	Inter natio nal Jour nal:	ISSN: 0301- 0104	<u>Journal Impact factor: 1.957</u>	2014
2	S. Sen and S. Chakrabarti	Graphitic silicon nitride: a metal free ferromagnet with charge and spin current rectification	Chem Phys Chem Vol.: 15, Page No. 2756 – 2761 Year: 2014,	International Journal:	Inter natio nal Jour nal:	ISSN: 1439- 7641	<u>Journal Impact factor: 3.349</u>	2014
3	M.Chattopadhyaya , S. Sen, M.. M. Alam, and S. Chakrabarti	On site Coulomb repulsion dominates over the non-local Hartree-Fock exchange in determining the band gap of polymers	International Journal: Journal of Physics & Chemistry of Solids Accepted September 2013 <u>Journal Impact factor: 1.527</u>	<u>International Journal</u>	<u>Inter natio nal</u>	ISSN: 0022- 3697	1.527	2014
4	Abhijit Biswas and Swagata Bhattacharjee	Temperature dependency of threshold voltage and subthreshold slope of strained –Si channel MOSFET's with polysilicon gates	vol. 54, page 1527-1533,2014	Journal	Inter natio nal	ISBN: 0026- 2714	1.44	2014
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5	Swagata Bhattacharjee and Abhijit Biswas	Analog circuit performance of high ultrathin-body InAsSb-on-insulator MOSFETs	Proceeding of TechSymp 2014	International conference	International	ISBN : 978-4799-2608-4/14/2014 IEEE		2014
6	S.Singha Roy	Quantum Geometry of Fermi Energy Under Size Quantization in Indirect Band Gap Semiconductors	pp-36.2014	International Conference Proceedings: Geometry and its applications, The Tensor Society &J.U,pp-36.2014				2014
7	S.Singha Roy	“Theoretic approach to the Fermi energy under size quantization with Quantum Mathematical Modelling in Nanomaterials”	PP-283-288.	International Conference Proceedings: Springer, Vol.7 ,PP-283-288.				2014
8	S.Singha Roy	A number of mathematical analysis of conduction band tail in heavily doped semiconductor,	PP-21	International Conference Proceedings: Calcutta Mathematical Society, ICCDMMS-2014, Dec 19-21,				2014
9	S.Singha Roy	“ A Simple Statistical analysis of entropy ambitious denaturation of Deoxyribonucleic	pp.17,	International Conference Proceedings:				2014

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				Biomathematical Society of India & J.U, pp.17, 2014				
10	S.Singha Roy	Quantum Geometry of Fermi Energy Under Size Quantization in Indirect Band Gap Semiconductors	pp-36.2014	International Conference Proceedings: Geometry and its applications, The Tensor Society &J.U,pp-36.2014				2014
11	S.Singha Roy	“Theoretic approach to the Fermi energy under size quantization with Quantum Mathematical Modelling in Nanomaterials”	PP-283-288.	International Conference Proceedings: Springer, Vol.7 ,PP-283-288.				2014
12	S.Singha Roy	A number of mathematical analysis of conduction band tail in heavily doped semiconductor,	PP-21	International Conference Proceedings: Calcutta Mathematical Society, ICCDMMS-2014, Dec 19-21,				2014

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2	S.Singha Roy	The simple theoretical analysis of quantum well wires superlattice (QWSL) of communication technology	8773,6 DoI:10.1117/12.2019051	SPIE Proceedings , Photon Counting Applications IV; and Quantum Optics and Quantum Information Transfer and Processing	Inter natio nal Conf erenc e	ISBN: 9780819495754		2013
3	S.Singha Roy	Theoretic Approach to the Fermi energy under size quantization with Quantum Mathematical Modelling in Nano-matericals	Pp.30	ICFMSA-2012 Bulletin of Calcutta Mathematical Society	Inter natio nal Conf erenc e	0008-0659		2013
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5	Abhijit Biswas and Swagata Bhattacharjee	Accurate modeling of the influence of back gate bias and interface roughness on the threshold voltage of nanoscale DG MOSFETs	vol. 53, page 363-370	Journal	Inter natio nal	ISBN: 0026- 2714	1.14	2013

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2	M.Chattopadhyaya , S. Sen , M.. M. Alam, and S. Chakrabarti	The role of relativity and non-local exchange on the band gap of thiophene, selenophene and tellurophene oligomers	International Journal: THE JOURNAL OF CHEMICAL PHYSICS J. Chem. Phys.136, 094904 (2012). <u>Journal Impact factor: 3.164</u>	<u>International Journal</u>	Internatio nal	ISSN: 0021-9606 E-ISSN: 1089-7690		<u>2012</u>
3	S.Singha Roy	A Simple Theoretical analysis of quantum transport of 3-dimensional photoelectric effect	pp.1-3 DoI-10.1364	IEEE PHOTONICS	Internatio nal	987-1-4773-4718-1		2012
4	S.Singha Roy	Determination of the density –of states function in highly	8542H PP.8 DOI:	SPIE Electro-Optical Remote	Internatio nal	ISBN:87808194		2012

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2	S.Singha Roy	The theoretical study of field emission from quantum wire SLs f	Pp 1-4/ DOI: 10.1109/INE C.2011.5991 663	IEEE INEC 2011	International Conference	ISSN:215 9-3523/ E-ISBN 978-1- 4577- 0377-5		2011
3	S.Singha Roy	The simple theoretical analysis of the specific heat capacity in nano materials	Pp 1-4/DOI: 10.1109/INE C.2011.5991 778	IEEE INEC 2011	International Conference	ISSN: 2159- 3523 / E- ISBN: 978-1- 4577- 0379-9		2011
4	Swagata Bhattacharjee and Abhijit Biswas	A continuous drain current model for long Ge channel double gate (DG) p MOSFETs with high-k gate dielectrics and estimation of analog circuit parameters	vol- 51, page 1105-1112	Journal	International	ISBN: 0026- 2714	1.14	2011
5	Swagata Bhattacharjee and Abhijit Biswas	Effects of hot carriers on threshold voltage and subthreshold slope of MOS devices with different gate architectures	vol. 2 No 1, page 70 – 82	Journal	International	ISSN: 0974- 9527		2011

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