

FACULTY PROFILE

Name of the Staff : Dr.A.Nichelson
Official Address with E-mail Id : Assistant Professor
National Engineering College
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1. Personal Details:

Age : 36
Date of Birth : 01.06.1985
Sex & Marital Status : Male & Married
Citizenship : Indian
Qualification : M.Sc.,B.Ed.,M.Phil.,Ph.D
Date of Joining : 02.07.2018
Present status : Assistant Professor

Degree	Programme and Specialisation	Class/CGPA	Month and Year of passing	Institute/ University
B.Sc	Physics	I	April 2005	Scott Christian College/Manonmaniam Sundaranar University
M.Sc	Physics	I	April 2007	VHNSN College/Madurai Kamaraj University
M.Phil	Physics	I	Jan 2010	ST Hindu College/Manonmaniam Sundaranar University
PhD	S&H (Physics)	I	August 2016	Anna University Chennai

Professional Experience:

Designation	Institution/Organisation	Period	Nature of Duties
Assistant Professor	National Engineering College, Kovilpatti	3 Years	Tutor, Exam wing member, EDX courses management
Assistant Professor	St.Mother Theresa Engg College, Vagaikulam	11 months	Class advisor, Department Coordinator, ISO Coordinator
Assistant Professor	PSN College of Engg and Technology	7years	Class advisor, Department Coordinator, Department Activity Coordinator, Board Chairman, Mentor
Lecturer	Kodaikanal Institute of Technology	8 months	Class Advisor, Department Coordinator

Courses taught:

Course Title	UG or PG
Engineering Physics I	UG
Engineering Physics II	UG
Applied Physics	PG
Materials Science	UG
Semiconductor Physics	UG
Fundamentals of Nanoscience	UG
Physics for information Science	UG
Physics for semiconductor devices	UG

Short term Courses / Seminars / Conference/ Workshops Attended:

S.No	Title	Period	No of Participants	Venue
1	International workshop on Synthesis of nano and biomaterials	5 days 21-25 th June 2021	180	NIT Trichy and Melbourne University Australia
2	National level online FDP on Innovation to Academicians	5 days 11.05.2020 to 16.05.2020	300	NEWGEN IEDC-Ramachandra College of Engineering, Eluru, NSTEDB and DST
3	Two day colloquium on grant proposal writing	2 days 29-30 th March 2019	100	Coimbatore Institute of Technology, Coimbatore
4	International seminar on innovative methods of producing hydrogen fuel	1day 10 th January 2018	200	Nazareth Marghoschis college at Pillayanmanai, Nazareth
5	International conference on new engineering concepts and technology	3 days 28-29 March 2017	300	K.Ramakrishnan College of Technology, Trichy
6	International conference on functional materials	3days 07-10 September 2016	300	PSN college of Engineering and Technology, Tirunelveli

7	International conference on recent trends in energy science and engineering	2 days 18-19 th December 2015	350	PSN college of Engineering & Technology, Tirunelveli
8	Hands-on experimental workshop on characterization techniques	1 day 9 th October 2014	100	PSN college of Engineering & Technology, Tirunelveli
9	Workshop on advanced characterization techniques	1 day 27 th February 2014	150	PSN college of Engineering & Technology, Tirunelveli
10	III National Conference on Advanced Materials	3 days 9 th October 2014	350	PSN College of Engineering and Technology, Tirunelveli
11	Advanced analytical techniques for materials characterization	2 days 19-20 th July 2011	300	SRM University organized by the department of chemistry, in association with CLRI, Chennai
12	Science Academies National Level Lecture-Workshop on Advances in Chemistry	2 days 17-18 th March 2011	200	PSN College of Engineering and Technology, Tirunelveli.
13	National conference on advanced materials	3 days 27-29 th August 2009	200	PSN college of Engineering & Technology, Tirunelveli
14	National conference on Advances in Material Science	1 day 30 th January 2009	200	Holy Cross College, Nagercoil
15	Renewable energy-Energy of the future	1 day 25 th August 2005	150	V.H.N.S.N. College, Virudhunagar.

Journal publications:

International Journal Publications

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year
1	Hybrid lithium-ion capacitors based on novel 1-butyl-3-methylimidazolium bis(nonafluorobutanesulfonyl imide) (BMImBNFSI) ionic liquid electrolytes: A detailed investigation of electrochemical	Journal of Material Research	<i>Volume</i> 9, <i>Issue</i> 3, <i>Pages</i> 5216-5227	<i>May-June</i> 2020,

	and cycling behaviors			
2	Nonaqueous liquid electrolytes based on novel 1-ethyl-3-methylimidazolium bis (nonafluorobutane-1-sulfonyl imidate) ionic liquid for energy storage devices	Journal of Material Research	<i>Volume 9, Issue 2, Pages 1251-1260</i>	<i>March–April 2020,</i>
3	Synthesis and characterization of $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.6}\text{Fe}_{0.1}\text{Mn}_{0.25})\text{O}_2$ Cathode Material for lithium ion batteries	Journal of New Materials for Electrochemical Systems	21 & 051-056	2018
4	Electrochemical performances of $\text{LiNi}_{1-x}\text{Mn}_x\text{PO}_4$ ($x = 0.05-0.2$) olivine cathode materials for high voltage rechargeable lithium ion batteries	Applied Surface Science	449 & 435-444	2018
5	Electrical, electrochemical and cycling studies of high power layered $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.7-x}\text{Mn}_{0.25}\text{Co}_x)\text{O}_2$ ($x = 0, 0.1, 0.3, 0.5, 0.7$) cathode materials for rechargeable lithium ion batteries	Ionics	24 & 1007-1017	2018
6	Structural, morphological, and vibrational studies on $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.7-x}\text{Mn}_{0.25}\text{Fe}_x)\text{O}_2$ ($x=0, 0.1, 0.3, 0.5, 0.7$) cathode material for li-ion batteries	IJERT	5&777-781	2017
7	A Brief Review on Integrated (Layered & Spinel) and Olivine Nanostructured Cathode Materials for Lithium Ion Battery Applications	Materials Focus	5&324-334	2016
8	Structural, Morphological and Impedance Spectroscopic Analyses of Nano $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.4}\text{Co}_{0.3}\text{Mn}_{0.25})\text{O}_2$ Cathode Material Prepared by Sol-Gel Method	Journal of New Materials for Electrochemical Systems	17&153-158	2014
9	Effect of nanochitosan and succinonitrile on the AC ionic conductivity of plasticized nanocomposite solid polymer electrolytes (PNCSPPE)	AIP Conference proceedings	1536&845-846	2013

International Conference Publications

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
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1	Structural, morphological, and vibrational studies on $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.7-x}\text{Mn}_{0.25}\text{Fe}_x)\text{O}_2$ ($x=0,0.1,0.3,0.5,0.7$) cathode material for li-ion batteries” in held on	International conference on new engineering concepts and technology (ICONNECT2K17)	K.Ramakrishnan College of Technology, Trichy	28-29 th March 2017
2	Electrical, electrochemical and cycling studies of high powered layered $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.7-x}\text{Mn}_{0.25}\text{Co}_x)\text{O}_2$ ($x = 0,0.1,0.3,0.5,0.7$) cathode materials for rechargeable lithium ion batteries	International conference on functional materials (ICFM)	PSN college of Engineering & Technology, Tirunelveli	07-10 th September 2016
3	Structural, morphological, vibrational and electrical studies on $\text{Li}(\text{Li}_{0.05}\text{Ni}_{0.6}\text{Mn}_{0.25}\text{Al}_{0.1})\text{O}_2$ cathode material for Li-ion batteries	International conference on recent trends in energy science and engineering (ICTESE-2015)	PSN college of Engineering & Technology, Tirunelveli	18-19 th December 2015

Honors / Awards:

NCC ‘B’ grade in ‘C’ certificate

Online Certification Course:

NPTEL course on Structural Analysis of Nanomaterials – secured Elite

NPTEL course on Selection of Nanomaterials for Energy Harvesting and Storage Applications – secured Elite

Program organized

Responsibilities held	Position	Date
National level online Quiz for +1 and +2 students	Coordinator	10.06.2020
Online Creative writing contest for School and College students	Coordinator	16.08.2020

Additional Responsibilities held :

- Exam wing Coordinator – 2018 to till date
- EDX course management – February 2021 to till date