

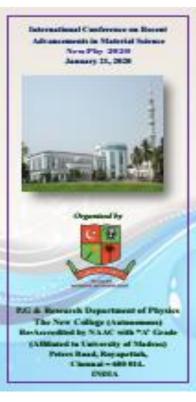
T'41	latament and and an experience
Title:	International conference on Recent
	Advancement in Material Science
Date:	21.01.2020
Expert(s):	Dr. J. MADHAVAN,
	Dean of Research and Associate Professor,
	Loyola College, Chennai, India.
	Dr. SIDDHARTH SURAJBHAN GAUTAM
	Research Associate
	Ohio State University, USA
	Dr. BHUVANESH RAMAKRISHNA
	Assistant Professor, IIT Hyderabad, India
	Dr. ABDUL AJEES ABDUL SALAM
	Associate Professor, MAHE, Karnataka, India
	Dr. R. SUGADEV
	Scientist-E, DRDO, New Delhi, India
Convenor	Capt. M. Anees Ahmed
	Head and Associate Professor,
	Department of Physics,
	The New College, Chennai – 600014
Organising	Dr. M. Gulam Mohamed
Secretary:	Dean Research and Associate Professor of
•	Physics, The New College, Chennai –
	600014
Assistant	Dr. M. Nizam Mohideen &
Organising	Dr. A. Syed Mohammed Mujaheer
Secretary:	Assistant Professors of Physics,
	The New College, Chennai – 600014



The New College (Autonomous), Chennai - 600014

INVITATION







The New College was founded in 2rd July 1911 by the Muslim Educational Association of Southern India (MEAN). The Institution is one of Neuthern helis (MEAN). The bestration is one of the allibrated sublepts to the University of Meaker, with Automorpes dates. The ording passession ligher releasing dates the colors passession between the facilities of the sublest threat and measures in enterpredicts break and more than inside amount in perignalized break. It has not only speed its disert to automate but also be remark in all participations depositions. Heating primarily exhibitional for particing higher educations in Medico medicals, it has also opened its disert to studients from all communities.

About the department

The department of Physics in The New preservableholds (PRI which was stated String intermediate program, From the the beginning it has present in loops and has all lastley by otherway 10.300, M. No. and Ph.T. pom. The department has relatioshed a break to account by publishing more than 100 business to automate and interestimal presents

About the conference Deleterar on Record Advancements in Material Science in Series Reported by PG & Records Department of Department of the Series College, Comman on 21° Annuary 2020. We hape that this will open a new real in disconnecing the record insulin in material science which will prove a use for recording to promoting and designing new materials which below in the betterment of the believ termen. + Nonlinear Option Copitallography
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 Nonlinear Dynamics The obstact of return by paper about it is admitted to a principal distribution. Brough or and attachment to MINWard format (Times Now nes, Lier speciego I.I; Titles I I perints, Author or A Affiliation 10 points, Other Sentrales and, Keywords & French ID old points), The Cantina, Coyonada it Ironal ID 62 points). The delical should not exceed 300 mmb. The solution should not exceed 300 mmb. The solution should be all the point of should be 90 a 120 cm. All the should be point should be 90 a 120 cm. All the should be 100 cm. All the should not be positive proceedings with 1000 cm.

In January 2008
Assoptions Notification 12 January 2008

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INVITED SPEAKERS

Dr. J. MADRIAVAN

DV. SEDERGREE SURABBIAN GAUTAN,

DV. BERLYLNESSER AMARKSHINA Austrian Professor, III Hydrodod, India.

DV-A ARDITL AZZEZ ARDITL SALAM

Dr. R SEGLERY, Spendall, 1900, Deb., balls

ADVISORY COMPRETTEE

Dr. V. N. Mari, Samerar of, CMET, Hyd. Dr. E. Supprent, Anne Jiwi, Leyela Calleya, Ch. Dr. Elisa Sain, Find UNISM, Ch. Dr. C. Vertinionerum, Find UNISM, Ch. Dr. C. Andriagon, Find, UNISM, Ch. Dr. E. Japand, Find, ELI, Ch.

Sto. B. Beyand, Paul. All, Ch.

Sto. R. Bengs Paul, UNIDE, Ch.

Sto. F. Maragorianthus, Principal, CLN college, Ch.

Sto. V. Viscounthus, NEW, ASSAI, New Stelle,

Sto. A. Animal Styl. Research Assai, LLNS, CASS

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The New College (Autonomous), Chennai - 600014

AGENDA



P.G. & Research Department of Physics The New College (Autonomous) Affiliated to University of Madras, Re-Accredited by NAAC with 'A' Grade

PETERS ROAD, ROYAPETTAH, CHENNAI - 600 014, INDIA

INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN MATERIAL SCIENCE

(NewPhy 2020)

21 January 2020, Tuesday

AGENDA

08.30 onwards	Registration	
09.00 - 09.45	Inauguration	Dr. J. MADHAVAN
		Dean of Research and Associate Professor
		Loyola College, Chennai, India.
09.45 - 10.45	SESSION I	Dr. SIDDHARTH SURAJBHAN GAUTAM
		Research Associate
40.45 44.00		Ohio State University, U.S.A.
10.45 – 11.00	Tea Break	¥
11.00 – 12.00	SESSION II	Dr. BHUVANESH RAMAKRISHNA Assistant Professor
		IIT Hyderabad, India.
12.00 - 01.00	SESSION III	Dr. ABDUL AJEES ABDUL SALAM
12.00 - 01.00	OLOGICIA III	Associate professor
		MAHE, Karnataka, India.
01.00 - 02.00	Lunch	
02.00 - 03.00	SESSION IV	Oral /Poster Presentations
03.00 - 04.00	SESSION V	Dr. R. SUGADEV
03.00 - 04.00	3E33IUN V	Scientist-E, DRDO, New Delhi, India.
Followed by Va	lediction	Solemast 2, 2020, New Denny main
*Each Session is fo	r 1 hour (45 minute:	s of Lecture and 15 minutes of Interaction)
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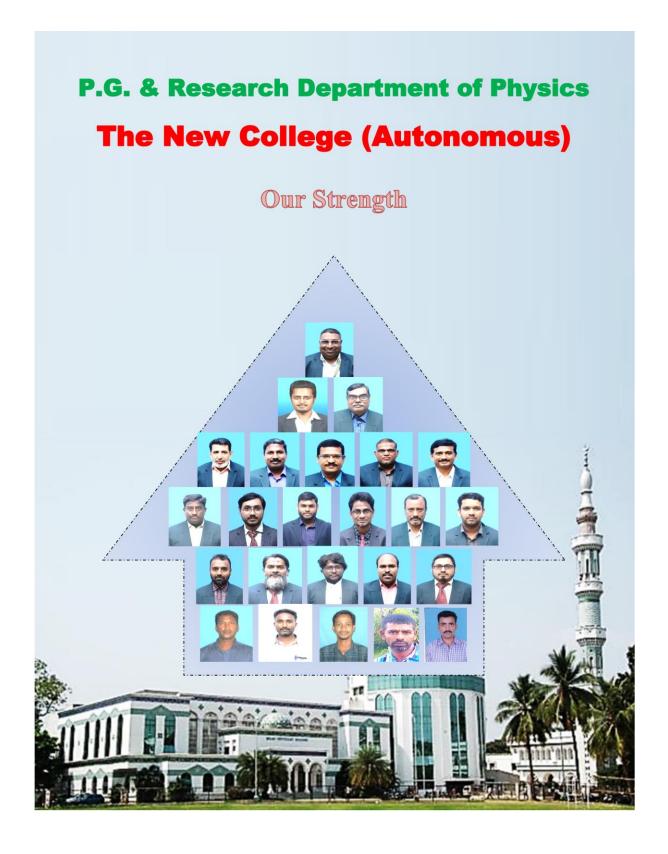
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The New College (Autonomous), Chennai - 600014

ORGANISING TEAM





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PHOTOS









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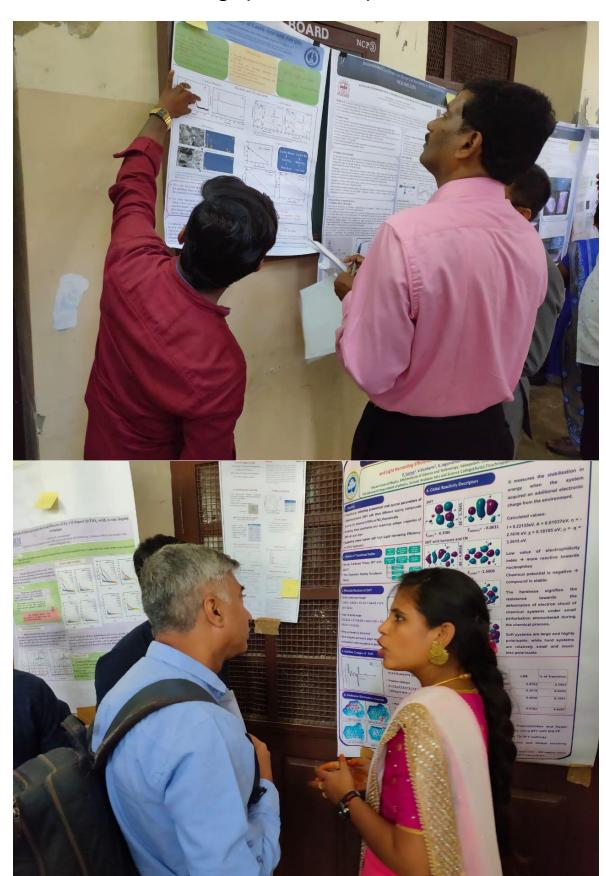








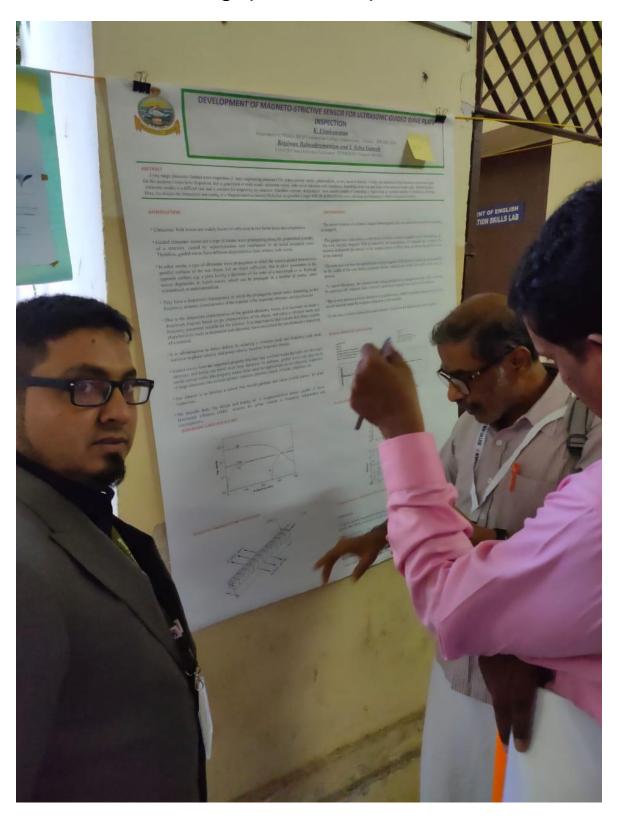






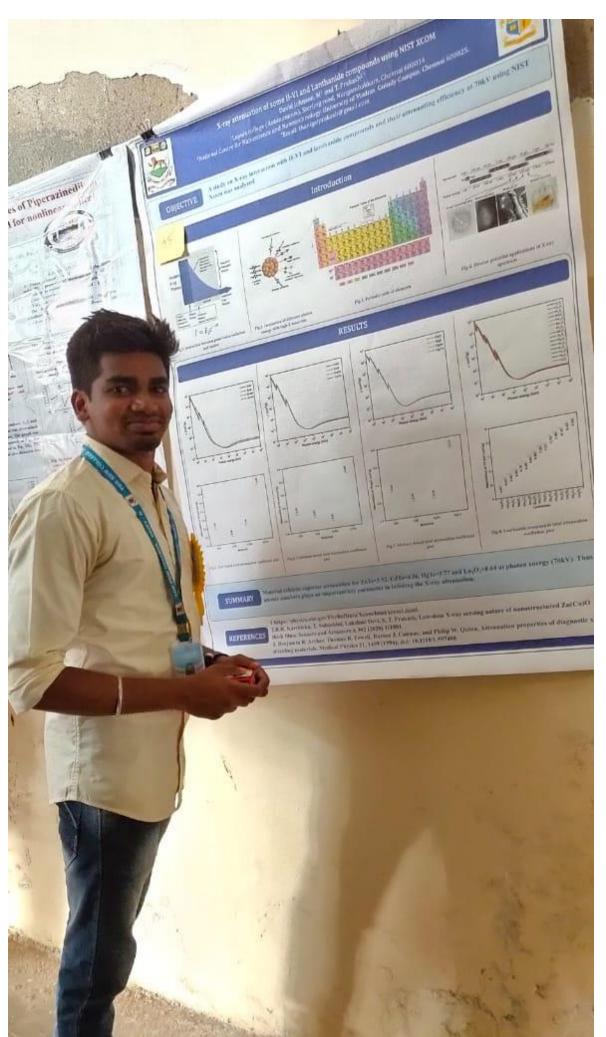








The New College (Autonomous), Chennai - 600014





REPORT OF THE CONFERENCE

Name of the Conference	International Conference on Recent
	Advancements in Material Science
	(NewPhy 2020)
Date and Time	21st January 2020 (Tuesday) 8:30 a.m. – 5:30 p.m.
Venue	MIIT Auditorium, The New College

The inaugural and valedictory secessions were chaired by The Principal, Dr. A. Abdul Jabbar. The sessions were attended by the Vice-Principals academic and Administration, Controller of Examinations, IQAC Coordinator, Heads and Staff Members of other Departments of our College. The Conference Souvenir was released by the Principal. The Conference deliberations were carried forward by the following delegates.

Guest Speakers	Session	Topic
Dr. J. MADHAVAN	Inauguration	Inaugural Talk on
Dean of Research and		Ethics to be followed in
Associate Professor		Scientific Publications
Loyola College, Chennai.		
Dr. SIDDHARTH	Session I	Propane Confined in Silica
SURAJBHAN		Nanopores: Neutron Scattering
GAUTAM		and MD Simulation Studies
Research Associate, Ohio		
State University, U.S.A.		
Dr. BHUVANESH	Session II	Reaching light-speed in a
RAMAKRISHNA		Centimeter
Assistant Professor, IIT		
Hyderabad, India.		
Dr. ABDUL AJEES	Session III	Crystallization of Drug
ABDUL SALAM		Molecules using Bio-Inspired
Associate professor,		Materials
MAHE, Karnataka, India.		by Laser-Induced Crystallization
		Technique
Dr. R. SUGADEV	Session IV	Design and Application of
Scientist-E, DRDO,		Biological Materials
New Delhi, India.		
No. of Participants	136	
No. of Abstracts Received	109 (3 from Tai	iwan and Russia)
Papers Presented (Oral)	15	
Papers Presented (Poster)	94	



LIST OF PARTICIPANTS

ORAL PRESENTATIONS

NAME/ INSTITUTION/ MOBILE NO/ E MAIL ID	ABSTRACT TITLE	ORAL PRESENTATION ID
P.Maheswari Department of Nautical Science, VELS University (VISTAS), Thalambur - 603 103, India, maheshiit39@gmail.com	Antibacterial activity of Bio - modified TiO ₂ Nanoparticlesagainst Gram positive and Gram negative bacteria	01
S.Selvakumar Research Scholar-Physics Department of Renewable Energy Science, ManonmaniamSundaranar University, Tirunelveli-627 012 kumartv188@gmail.com	Nano Structured Absorber: Preparation, Characterisation And Its Contribution To Thermal Performance Of Solar Collector	02
D. Angeline Shirmila PG and Research Department of Physics, Queen Mary's College(A), Chennai-4.guqmc@yahoo.com angelineshirmila2006@gmail.com	Synthesis, Growth, Structure determination and Hirshfeld surface analysis of a new chalcone derivative: (2 <i>E</i>)-2-[(3,4-dimethoxyphenyl)methylidene]-3,4-dihydronaphthalen-1(2 <i>H</i>)-one	03
N. Sivakumar Crystal Growth Centre, AnnaUniversity, Chennai 600 025. nsivakumar1986@gmail.com	Synthesis, structure, crystalline perfection and mechanical hardness of pure and strontium substituted LaFeO ₃ single crystals	04
Gunasekaran Munusamy Pg& Department of Physics, Muthurangam Government Arts College (Aut), Vellore-2, Tamil Nadu, India. mgsphy@gmail.com	Structural And Optical Properties Of Silar Deposited Cds, Ni, Ti And Zn Doped Cds Thin Film	05
G. Dhanalakshmi Department of Physics, Presidency College(Autonomous), University of Madras, Chennai. aravindhanpresidency@gmail.com gdhansi82@gmail.com	Crystal structure,Hirshfeldsurface,Energy frameworkAnalysis of a novel carbazole derivative	06
L. Sangeetha Department of Physics, Saveetha Engineering College, Thandalam, Ch.sangeethal@saveetha.ac.in +919962045249	Photostimulated and thermostimulated luminescence mechanisms in BaFBr:Eu ²⁺ x-ray storage phosphor	07
K. Pugazhendhi Department of Physics, Energy Nanotechnology Centre (ENTeC), Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai jmshyla@loyolacollege.edu pugazhl1702@gmail.com	Plasmon-induced Photoluminescence in TiO ₂ /Al@ZnO Nanocomposite for Energy Applications	08



S. Syed Abuthahir PG & Research Department of Physics, The New College (Autonomous), University of Madras, Chennai 600 014, abu_physics@yahoo.com	The crystal structures and Hirshfeld surface analyses of four 3, 5-diacetyl-2-methyl-2, 3-dihydro-1, 3, 4-thiadiazol-2-yl derivatives	09
Shackeerali. M Department of Physics, The New College (Autonomous), Chennai, India 600 014. shackeerali@gmail.com	A Theoretical Study on Modulation Instability in a Metamaterial	10
N. Ajmal Khan Department of Physics, The New College (Autonomous), Chennai, Tamil Nadu – 600014 akajmalak@gmail.com mmdnaseer@gmail.com	Molecular Modeling Studies on Graphene Quantum Dot Models: A DFT Approach	11
S. Sharon Tamil Selvi Department of Physics, Loyola College, Chennai 600034, India allwinjoseph90@gmail.com	Synthesis and Characterization of ZnO/CdS Nanocomposite and its Photocatalytic Degradation of Mordant Black 11	12



POSTER PRESENTATIONS

NAME/ INSTITUTION/ MOBILE NO/ E MAIL ID	ABSTRACT TITLE	POSTER ID
Nagaraj R, Research Scholar, C/o Dr. S. Ranjith, Department of Physics,Ramapuram CampusSRM-IST, Chennai, Tamil Nadu- 600 089 ranjith7784@yahoo.co.in	Structural, Optical, Thermal and Mechanical Properties of Organic Single Crystal for NLO Applications	01
ThanujaBalasundaram Dept. of chemistry.Sri Sairam Engineering College Chennai 600 044,Tamil Nadu, India.thanuja.che@sairam.edu.in	Molecular interactions in binary mixtures of derivatives of Semicarbazone benzoin with various solvents through ultrasonic speed measurements	02
K.K. Sivakumar Associate Professor and Head, Department of Chemistry, AMET Deemed to be University, Kanathur, Chennai. sivakumarccet@gmail.com	ZnO nanoparticles in Water and Wastewater Treatment	03
R. Gnanadeepam Department of physics, SRM Institute of Science and technology, Ramapuram Campus, Chennai-600089,India gnanadeepamapi@gmail.com	Thermal and Mechanical Properties of Acetone-2, 4-Dinitrophenylhydrazone Single Crystal	04
Dr. V. Usha Asst.Professor, Department of Chemistry, University College of Engineering, Panruti 607106. Mobile: 9710891475, vushachem2004@gmail.com	Activated Sodium Bentonite Catalyst for the Synthesis of Enone	05
Dr.G.RAMANATHAN Assistant Professor Sri SaiRam Engineering College West Tambaram Chennai.gramsriram@gmail.com	Surface Area, Average pore size CeO ₂ Nano Particles	06
Dr. S.Rafi Ahamed Associate Professor, Department of Physics, Academy of Maritime Education and Training,135- East Cost Road, Kanathur- 603112Mobile: 9698753162. rafiahamed81@amet.ac.in	Physico chemical properties on novel conjugated heterocyclic compounds dicyandiamide and 4- (difluoromethoxy)-2- hydroxybenzaldehyde 2- cyanoguanidine as sensor for heavy metals	07
T. Subashini National Centre for Nanoscience and Nanotechnology, University of Madras, Guindy Campus, Chennai 600025, India thanigaiprakash@gmail.com subaece13@gmail.com	BiVO ₄ a promising material for supercapacitor and X-ray detection	08
V.Rajadurai	Dark Soliton In Spinor Bose Einstein Condensation	09



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Department of Physics, Velammal Engineering		
College,Chennai-600066,India		
rajaduraiv1993@gmail.com		
J. Stella Punitha	Characterization of the Structural,	
Department of Physics, SRM Institute of	Optical and Magnetic properties of	
Science & Technology, Ramapuram, Chennai	double perovskite Pr ₂ FeMnO ₆	10
- 600089		10
Sakuraj86@yahoo.co.in		
stellajoseph1101@gmail.com		
K. Ramachandran	Mechanical activation of synthesis	
Department of Physics, Vadapalani Campus,	reaction for Cu doped BaTiO ₃ with	
SRM Institute of Science and Technology,	x = (0, 0.01, 0.03) nano-ceramics	11
Chennai-600026, Tamilnadu, India.		
kaviramach76@gmail.com		
E. Padmini, K. Ramachandran*	Comparison of structural and electrical	
Department of Physics, Vadapalani Campus,	behavior of Dy, Cd doped SrTiO ₃ with	
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kaviramach76@gmail.com		
S Shasimithra	Nanosensors And Smart Material	
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vallavanbalakrishna@gmail.com		
M. Abila Jeba Queen	Effect of nickel on structural and optical	
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jeba.abi@gmail.com		
P. AjiUdhaya	Egg white assisted green synthesis of	
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Department of Physics, Holy Cross College,	Zinc Ferrite nanoparticles and their	
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ManonmaniamSundaranar University,		
Abishekapatti, Tirunelvel-627012, India.		
ajiudhaya@gmail.com		
Dr.R.Divya	Green Synthesis and Characterization	
AssistantProfessor, Department of Physics,	ofZnONanoparticles Using Allium	16
S.T. Hindu College, Nagercoil	Cepa	
ajiudhaya@holycrossngl.edu.in		
U. Rajesh Kannan	Xrd, Optical And Thermal Propertes Of	
Assistant Professor, Department of Physics,	Tetrakis-Thiourea Nickel Sulphate	
Kamaraj College, Tuticorin, 628003,	Crystals (Ttns) By Slow Evaporation	17
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rajeshphymsu@gmail.com		
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reginphysics@gmail.com		
Arun Varghese	Study Of Third-Order Optical	
Department of Physics, Anna University,	Properties Of An Nonlinear Optical	
Chennai, Tamil Nadu,	Liquid Medium	19
arunthomasvarghese@gmail.com	1	
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R. DilberPushpitha	Effect of magnetic field on Spin-	
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Deemed to be University, Kumbakonam,	holes in CdTe/Cd _{1-x} Mn _x Te double	-
India.	barrier heterostructure	



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Science College, Dindigul, TN – 624 002,	glasses for Photonic applications	
Indiamari_ram2000@yahoo.com		
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Department of Physics, SRM Institute of	conductivity modification in	
Science and Technology, Vadapalani campus,	Li ₇ La ₃ Zr ₂ O ₁₂ lithium garnet by the	33
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drskannanphy@gmail.com		
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mic.prathap@gmail.com	Solar Energy in DSSCs	
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bharathisasa@gmail.com	Capable DSSCs	
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Science and Technology, Vadapalani, Chennai		36
-600026		
kjagan81@gmail.com		
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- 600 026		
kjagan81@gmail.com		
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Chennai-600025.		38
shrivastavaj10@gmail.com		
M.K.KomalPoojha	Synthesis, Structural and Luminescence	
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be University, Gandhigram – 624 302,	Phosphors for Red Laser Applications	39
Indiakpoojha7628@gmail.com	Thosphoto for rea Easer rippileations	
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catherinepriya1996@gmail.com		
elavarasi83@gmail.com	TO THE STATE OF TH	
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Nanotechnology, University of Madras,		41
Guindy Campus, Chennai 600025.		••
thanigaiprakash@gmail.com		
karthiekarrraja@gmail.com		
K. Sathyamoorthy	Optical, Electrical, Mechanical	
1		
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Department of Physics, Presidency College, Chennai, Tamil Nadu, India.		42
1 -	properties of Pr ³⁺ and Yb ³⁺ doped	42



P.Vinothkumar Department of Physics, Saveetha Engineering College, Thandalam, Chennai 602 105,	Optical, Structural, Mechanical, <i>in vitro</i> antioxidant and molecular docking properties of (E)-3-(4- (diethylamino)phenyl)-2-(thiophen-2-	43
priyam@saveetha.ac.in R.Nafeesa Begum Post-Graduate Department of Physics, Women's Christian College, College Road, Chennai, nafeesabegum898@gmail.com thanigaiprakash@gmail.com	yl)acrylonitrile (DPTA) single crystals. X-ray attenuating behaviour of BiI ₃	44
Mayaha Elsa Anil Post-Graduate Department of Physics, Women's Christian College, College Road, Chennai, thanigaiprakash@gmail.com mayahaanil1@gmail.com	X-ray attenuation studies of nanocrystalline CaWO ₄ thick films	45
K. Indumathi Arignar Anna Govt.Arts College, Cheyyar Voorhees College, Vellore induke05@gmail.com	Synthesis and Photoluminescence properties of a Luminescent material	46
R. Durgadevi PG and Research Department of Physics, Pachaiyappa's College, Chennai-600 030, Tamilnadu, India arumai.tr@gmail.com shaga265@gmail.com	Synthesis, growthand spectral analysis of new organic nonlinear optical single crystal:Hexamine L- alanine (HMLA)	47
Balaji R PG and Research Department of Physics, Muthurangam Government Arts College (Auto) Vellore 632 002 balajee1591@gmail.com	Structural And Optical Properties Of Thin Films Grown By Silar Technique	48
C.Amirthakumar, Department of Physics, Presidency College, Chennai-600 005, India mohan66@hotmail.com amirkavi2011@gmail.com	Studies on the second order nonlinear optical properties of Potassium 4-methyl benzene sulfonate single crystal grown by conventional and S-R methods	49
I. Sivagami PG and Research Department of Physics, Pachaiyappas College, Chennai-600 030, drrtshivanesan@gmail.com israelsivagami@gmail.com	Growth and spectral analysis of OrganicNLO Urea ammonium adipate (URAA) Single crystal	50
E. V. Siddhardhan, PG and Research Department of Physics, Pachaiyappa's College, Chennai-600030, Tamilnadu, India arumai.tr@gmail.com sheela.siddhu101@gmail.com	Synthesis of CuS nanoparticles with different solvents for photocatalytic activity	51
B. Tamil Arasan Department of Physics, Presidency College, Chennai-600 005, India classicmecha@gmail.com	Dynamics of solitons in the fourth-order nonlocal nonlinear Schrodinger equation	52
S. Suresh	Growth and Characterization of semi- organic single crystal:	53



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mohan66@hotmail.com	Hardness measurement on N-	
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Jaya College of Arts and Science,		54
Thiruninravur, Chennai 602 024		
kanagathara23275@gmail.com		
K.Ayisha Begam	Vibrational Spectroscopic Studies and	
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College, Thandalam, Ch	2,4-diamino-6-methyl-1,3,5-triazin-1-	55
kanagathara23275@gmail.com	ium levulinate dehydrate	
+91 8056107511		
N.Sundaramurthy	Green synthesis of ZnO nanoparticles	
Post Graduate and Research Department of	by Crinum asiaticum leaf structural,	
Physics, Thiru Kolanjiappar Government Arts	optical and Antioxidant activity	56
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