

RESUME

Name : Dr. S. Kanagaprabha
 Department : Physics
 Designation : Assistant Professor
 Category : Aided
 Phone No : 9488011689
 Email Id : skprabha29@gmail.com
 Date of Birth : 15.02.1979
 Date of Joining : 16.06.2008
 Date of Retirement : 28.02.2037



Qualification:

Sr.	Category	Name of the Degree	Specialization	Year of Passing	Name of the College/University	% of Marks / Grades Obtained	Class Obtained
1.	U.G	B.Sc	Physics	1999	NMS Sermathai Vasan College	69.4 %	First
2.	P.G	M.Sc	Physics	2002	Sarah Tucker College	61.4 %	First
3.	-	M.Phil	Physics	2004	M.S.University	63.4 %	First
4.	Diploma	PGDCA	Computer	2005	NMS S.Vellaichamy Nadar College, Madurai	63.3 %	First
5.	-	B.Ed	Education	2006	Nadar Saaswathi College of Education	59.3 %	Second
6.	-	Ph.D	Condensed Matter Physics	2016	M.K.University	Awarded	-

Academic Experience:

Name of the College	Whether Aided/SF	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
NMSS Vellaichamy Nadar College, Madurai	SF	Lecturer	01.07.2004	31.08.2005	1	2	
			16.06.2006	31.10.2007	1	3	16
Kamaraj Collge, Thoothukudi	Aided	Assistant Professor	16.06.2008	Till date	12	4	-
Total					14	9	16

Minor / Major Projects completed:

Sr.	Project Title	Duration	Funding Agency	Total Cost
1.	Investigation of Electronic, mechanical and elastic properties of some hydrogen storage materials	2014-2016	UGC	420650

Papers Published:

Sr.	Name of the Author	Title of the Paper	Name of the Journal	Year	Vol. No. Issue No.	Page No	Impact of Factor
1.	S.Kanagaprabha, R.Rajeswarapalanichamy and V.Sathiyabama	Franck-Condon Factors and r-centroids for the diatomic Fluorides of Germanium And Silicon	Journal of the Serbian Chemical Society	2008	73	555-560	0.24
2.	S.Kanagaprabha, A.T.Asvini meenaatci, R.Rajeswarapalanichamy and K.Iyakutti	First Principles study of Pressure Induced Structural Phase transition in Hydrogen storage material-MgH ₂	Physica B	2012	407	54-59	1.6
3.	S.Kanagaprabha, A.T.Asvinimeenaatci, R.Rajeswarapalanichamy, K.Iyakutti	First Principles Study of the Electronic Structure, Structural Properties and Superconductivity of Nickel Hydride	Walailak J Sci & Tech.	2012	9	115-126	0.16
4.	R.Rajeswarapalanichamy, A. Murugan, S. Kanagaprabha, S. Puvaneswari, K. Iyakutti	Investigation of Electron Crystallization with HCP Structure	Walailak J Sci & Tech.	2012	9 (2)	115 – 126	0.16
5.	S.Kanagaprabha, A.T.Asvini meenaatci, R.Rajeswarapalanichamy, K.Iyakutti	Electronic structure and Magnetic Properties of FeH and CoH	AIP Conf. Proc.	2012	1447	863-864	0.4
6.	S.Kanagaprabha, A.T.Asvinimeenaatci,	Pressure induced superconductivity in	AIP Conf.	2012	1447	71-72	0.4

	R.Rajeswarapalanichamy, K.Iyakutti	Transition metal trihydrides: an ab-initio study, , AIP Conf. Proc. 1447, 71 (2012)	Proc.				
7.	A.T.Asvinimeenaatci, S.Kanagaprabha, R.Rajeswarapalanichami and K.Iyakutti	High Pressure Phase Transition and Superconductivity in Transition Metal nitride HfN and ZrN: an ab-initio Study	AIP Conf. Proc.	2012	1447	859-860	0.4
8.	S.Kanagaprabha, A.T.Asvinimeenaatci, G.Sudhapriyanga, R.Rajeswarapalanichamy and K.Iyakutti	First Principles study of stability and electronic structure of TMH and TMH ₂ (TM=Y,Zr,Nb)	Acta Physica Polonica A	2013	123	126-131	0.6
9.	S. Kanagaprabha, R. Rajeswarapalanichamy, and K. Iyakutti	First Principles Study of Electronic Structure and Magnetic Properties of TMH (TM = Cr, Mn, Fe, Co)	International Journal of Metals	2013	2013	1-10	0.7
10.	R.Rajeswarapalanichamy, A. Murugan, S. Kanagaprabha, S. Puvaneswari, K. Iyakutti	Investigation of Electron Crystallization with HCP Structure	Walailak J Sci & Tech	2013	10 (4)	331-342	0.16
11.	R.Rajeswara Palanichamy, G SudhaPriyanga, A Murugan, M Santhosh, A JemmyCinthia, S Kanagaprabha	First Principles Study of Structural, Electronic and Elastic properties of Group IB metal nitrides TMN _x (TM= Cu, Ag and Au: x=1,2)	Journal of Alloys and Compounds	2013	580	332–340	3.6
12.	A.Murugan, S.Kanagaprabha and R.Rajeswarapalanichamy	First Principles study of “111” type Iron Arsenide Superconductors	AIP Conf. Proc.	2013	1536	297-298	0.4
13.	R. Rajeswarapalanichamy, M. Santhosh, G. Sudha Priyanga, A. T. Asvini Meenaatci, and S.	Electronic, structural and ground state properties of 3d transition metal mononitrides: A first	AIP Conf. Proc.	2013	1536	399-400	0.4

	Kanagaprabha	principles study					
14.	S. Kanagaprabha, M. Santhosh, G. Sudhapriyanga, A. T. Asvinimeenaatci, R. Rajeswarapalanichamy, K.Iyakutti	Elasticity and structural phase transition in TiH and VH: An ab initio study	AIP Conf. Proc.	2013	1536	919-920	0.4
15.	S. Kanagaprabha, M. Santhosh, R. Rajeswarapalanichamy, and K. Iyakutti	First principles study of CrH and CrM ₂ H	AIP Conf. Proc.	2013	1536	921-922	0.4
16.	M. Santhosh, S. Kanagaprabha, G. Sudhapriyanga, A. T. Asvinimeenaatci, and R. Rajeswara Palanichamy	First principles study of semiconductor to metallic transition in cadmium selenide under high pressure	AIP Conf. Proc.	2013	1536	923-924	0.4
17.	S. Kanagaprabha, R. Rajeswarapalanichamy, G. Sudha Priyanga, M.Santhosh and K. Iyakutti	First Principles Study of Structural, Electronic and Elastic Properties of ScH and ScH ₂	International Journal of Scientific & Engineering Research	2014	5(3)	129-132	0.4
18.	M.Santhosh, R. Rajeswarapalanichamy, G. Sudha Priyanga, A.Murugan, S. Kanagaprabha and K. Iyakutti	Half Metallic Ferromagnetism in Alkali Metal Nitrides XN (X= Li, Na): A First Principles Study	International Journal of Scientific & Engineering Research	2014	5(3)	161-164	0.4
19.	A.Murugan, R. Rajeswarapalanichamy, M.Santhosh, G. Sudha Priyanga, S. Kanagaprabha and K. Iyakutti	Structural, Electronic and Elastic Properties of LiXN (X = Be, Mg): A First Principles Study	International Journal of Scientific & Engineering Research	2014	5(3)	165-168	0.4
20.	Shunmugam KANAGAPRABHA, Ratnavelu RAJESWARAPALANICHAMY and Kombiah IYAKUTTI	First Principles Study of Titanium Hydrides, TiH _n : n = 1, 2, 3; Energetics and Phase Transition	Walailak J Sci & Tech	2014	11(6)	525-536	0.16
21.	S. Kanagaprabha, R. Rajeswarapalanichamy,	Investigation of structural stability	AIP Conf.	2014	1591	67-68	0.4

	G. Sudhapriyanga, A. Murugan, M. Santhosh, and K. Iyakutti	and elastic properties of ZrH and ZrH ₂ : A first principles study	Proc.				
22.	M. Santhosh, R. Rajeswarapalanichamy, S. Kanagaprabha, G. Sudhapriyanga, A. Murugan, A. Jemmy Chinthia, and K. Iyakutti	Structural phase transition and elastic properties of hafnium dihydride: A first principles study	AIP Conf. Proc.	2014	1591	117-118	0.4
23.	A. Murugan, R. Rajeswarapalanichamy, M. Santhosh, G. Sudhapriyanga, and S. Kanagaprabha	Half metallic ferromagnetism in alkali metal nitrides MN (M = Rb, Cs): A first principles study	AIP Conf. Proc.	2014	1591	1140-1141	0.4
24.	M. Santhosh, S. Kanagaprabha, G. Sudha Priyanka, R. Rajeswara palanichamy and K. Iyakutti	First principle study of structural stability, electronic structure and mechanical properties of Alkali Beryllium hydrides ABeH ₃ (A = K, Rb, Cs)	Journal of Physics and Chemistry of Solids	2015	81	34-39	2.8
25.	S. Kanagaprabha, R. Rajeswarapalanichamy, G. Sudhapriyanga, A. Murugan, M. Santhosh, and K. Iyakutti	Investigation of structural stability and elastic properties of CrH and MnH: A first principles study	AIP Conf. Proc.	2015	1665	030010-030011	0.4
26.	M. Santhosh, R. Rajeswarapalanichamy, G. Sudha Priyanga, S. Kanagaprabha, A. Murugan, and K. Iyakutti	A first principles study of structural stability, electronic structure and mechanical properties of ABeH ₃ (A = Li, Na)	AIP Conf. Proc.	2015	1665	090015-090016	0.4
27.	M. Santhosh, R. Rajeswarapalanichamy, G. Sudha Priyanga, S. Kanagaprabha, A. Jemmy Cinthia, and K. Iyakutti	A first principles study of structural stability, electronic structure and mechanical properties of beryllium alanate BeAlH ₅	AIP Conf. Proc.	2015	1665	090032-090033	0.4

28.	A. Murugan, R. Rajeswarapalanichamy, M. Santhosh, G. Sudha Priyanga, S. Kanagaprabha, and K. Iyakutti	Structural, electronic and mechanical properties of rare earth nitride-ErN: A first principles study	AIP Conf. Proc.	2015	1665	090033-090034	0.4
29.	Dr. S. Kanagaprabha	First principles study of alkali alkaline hydrides ABH ₃ (A=K, Rb, Cs and B=Mg, Ca)	International Journal of Modern Trends in Engineering and Research	2018	5(2)	137-146	
30.	S. Kanagaprabha and R. Rajeswarapalanichamy	First-principles Study of Electronic Structure, Mechanical and Superconducting Properties of Palladium Hydride	Journal of Materials Science Research and Reviews	2018	1(2)	1-10	

Conference / Seminar / Workshop / Orientation / Refresher Course / Symposia / Training Programme Attended:

Sr.	Theme	Place	International / National / State Level	Year	Resource Person / Paper Presentation / Participation
1.	Inter-collegiate seminar on "Quantum Liquids"	N.M.S.S.Vellaichamy Nadar College, Madurai	State Level	2005	Participation
2.	Regional Seminar on "Recent Trends in Optical Spectroscopy"	N.M.S.S.Vellaichamy Nadar College, Madurai	State Level	2005	Participation
3.	52 nd DAE Solid State Physics Symposium	University of Mysore	National	2007	Paper Presentation
4.	One Day National Workshop on "Nanomaterials - Synthesis, Characterization and Applications"	MEPCO Schlenk Engineering College, Sivakasi	National	2007	Participation
5.	Orientation Programme on "Effective Teaching"	N.M.S.S.Vellaichamy Nadar College,	National	2007	Participation

		Madurai			
6.	UGC-Sponsored Orientation Programme (IT-Oriented)	University of Kerala	National	2010	Participation
7.	National Seminar on Structural Bioinformatics, NSSB-2011”	Manonmaniam Sundaranar University	National	2011	Participation
8.	International Conference on Advanced Materials (ICAM – 2011)	P&G College of Technology, Coimbatore	International	2011	Paper Presentation
9.	56 th DAE Solid State Physics Symposium	SRM University, Chennai	National	2011	Paper Presentation
10.	Application of Irradiation Techniques in Science, Engineering and Medicine Fields (AITSEM 2K12)	Kamaraj College of Engineering and Technology	National	2012	Participation
11.	National Level Workshop on Computational Methods in Physics (COMP 2012)	N.M.S.S.Vellaichamy Nadar College, Madurai	National	2012	Participation
12.	International Conference on Research in Condensed Matter Physics (ICCMP 2012)	University of Madras	International	2012	Paper Presentation
13.	UGC-Sponsored Refresher Course in Physics	Madurai Kamaraj University	National	2012	Participation
14.	Workshop on Advances in Computation Physics (ACP 2013)	Central University of Tamilnadu	National	2013	Participation
15.	2 nd National seminar on New Materials Research and Nanotechnology (NSNMRN 2013)	Govt. Arts College, Ooty	National	2013	Paper Presentation
16.	One day state level KRP Training on Content Enrichment for P.G. Teachers	DPI Campus Chennai	State Level	2013	Participation
17.	Resource Person in the Content Enrichment for P.G. Teachers	Kamaraj College, Thoothukudi	State Level	2013	Resource Person
16.	National Conference in Advanced Materials and its Applications (NCAMA 2014)	Annamalai Univesity	National	2014	Paper Presentation
17.	International Conference on Recent Advances in Physics for	Sathyabama	International	2014	Paper

	Interdisciplinary Developments (ICRAPID-2014)	University, Chennai			Presentation
18.	“Young Student Scientist Programme” (YSSP Phase – II 2014)	Kamaaj College, Thoothukudi	State Level	2014	Resource Person
19.	UGC-Sponsored Refresher Course in Environmental Studies (ID)	Bharathiar University	National	2018	Participation
20.	UGC-Sponsored Refresher Course in Women Studies – Gender Sensitization (ID)	Bharathiar University	National	2018	Participation
21.	International Conference on Advanced materials	Aditanar College of Arts and Science	International	2019	Participation
22.	National level Seminar on Luminescence Dating Technique and NH ₃ gas sensors	Wavoo Wajeetha Women’s College	National	2019	Participation
23.	National Seminar on Women’s Health	Annammal College of Education for Women	National	2019	Participation
24.	Writing and Publishing research Articles: A strategic approach	Kamaaj College, Thoothukudi	National	2019	Participation
26.	People’s Education Policy	John’s College	National	2020	Participation
26.	Empowering Teachers in the Art of Teaching and Learning	Annammal College of Education for Women	State Level	2020	Participation

Other Relevant Information:

CONFERENCES/SEMINAR/WORKSHOP ETC ORGANISED:

1. National Seminar on Climate change Impacts on environment, Kamaraj College, sponsored by Ministry of Earth Sciences, New Delhi, during 4th & 5th April, 2013.
2. State level Seminar on Nuclear Power: A safe, clean & sustainable option, supported by Kudankulam Nuclear Power Project (KKNPP), during 10th & 11th September, 2015.
3. Workshop on Household appliances: their uses and safety measures on 28th September, 2016.
4. Two days hands on training workshop on Smart Phone Servicing & Troubleshooting during 5th and 6th February, 2020.
5. Workshop on Emotional Mastery & Art of Communication through Experimental Learning (EMAC) on 11th February, 2020.
6. Intra-Collegiate Competitions on Ultrasonics (ICCU) on 28th February, 2020.

It is certified that all the information provided are true to the best of my knowledge.