	-			
Name	SHUBRA SINGH	Gender	Female	
Designation	Assistant Professor	Department	Crystal	
_			Growth	
			Centre	
University	Anna University, Chennai	·		
Discipline	Physical Sciences			
Area of	Materials for energy and e	nvironmental		
specialization	applications			
	https://www.researchgate.ne	et/profile/Shubra	Singh	-
	https://shubra6.wixsite.com	/shubrasinghgroup	<u>)</u>	
Web page	https://vidwan.inflibnet.ac.in/	<u>myprofile</u>	_	
Address	Crystal Growth Centre			
	Anna University, Chennai-6	500025		

Educational Qualifications				
Degree	Institution	Year		
UG	University of Calcutta	2001		
PG	University of Calcutta	2003		
Ph.D	IIT Madras	2009		

Career Profile					
Organization	Designation	Duration	Role		
UNIVERSITY OF	CEFIPRA Post doctorate	21.09.2009 to 14.12.2010	Research		
RENNES, UMR 6226	fellow				
CNRS, France					
IIT MADRAS	SENIOR PROJECT	24.05.2011 to 04.01.2012	Research		
	OFFICER				
IIT KHARAGPUR	Assistant Professor	09.01.2012 to 05.08.2012	Teaching and Research		
Anna University	DST INSPIRE Faculty	10.08.2012 to 18.01.2016	Teaching and Research		
Anna University	UGC Assistant Professor	19.01.2016 to present	Teaching and Research		

A. Main subject area of research along with subject-specialization

Materials for energy and environmental applications - Novel materials for Carbondioxide capture, cathode materials for Intermediate temperature Solid oxide fuel cells, Photoactive materials for environmental remediation and water splitting.

B. Total publications - 83 Research Publications (Since 2016)

Sl.	Title of Paper, Year	Mentioning in order, name/s of	Current	Citation	Editor &
No		authors, journals, volume,	Impact		Publisher
		page/s	Factor		details
1	Enhanced photo-fenton and	Durga Sankar Vavilapalli,	4.996		Nature
	photoelectrochemical	Santosh Behara, Raja Gopal		0	publicati
	activities in nitrogen doped	Peri, I iju Thomas, Muthuma ang P. Pangaghan dra		0	ons
	brownimilierite $KBIFe_2O_5$,	Muthuraaman B, Kamachandra			
	(2022)	Scientific Reports Nature			
		publications 12:5111			
3	Development of CdTe	R Janani S Sumathi Bhayana	7 968	1	Science
	quantum dot supported	Gupta, A.R. Mahammed	1.900	1	Direct.
	ZnIn ₂ S ₄ hierarchical	Shaheer, Sasikala Ganapathy,			Elsevier
	microflowers for improved	Bernaurdshaw Neppolian,			
	photocatalytic activity	Somnath C Roy, Rashmi			
	(2022)	Channakrishnappa, Bishwajit			
		Paul, Shubra Singh, Journal of			
		Environmental Chemical			
		Engineering 10, 10/030	2		0
	ennancea photocatalytic	Gonal Peri Muthuraaman P	3	-	Direct
	performance of	Kishore Sridharan MS			Elsevier
	$KBiFe_2O_5/g-C_3N_4$	Ramachandra Rao, Shubra Singh			
	heterojunction photocatalyst	Physica B: Condensed Matter			
	under visible light, accepted	648 414411			
	(2022)				
4	Growth of brownmillerite	Suchita Dhankhar, Durga Sankar	1.878	0	Indian
	$Ca_2Fe_2O_5$ single crystals	Vavilapalli, Gopal Bhalerao,			Academy
	under air, oxygen and argon	Shubra Singh, Bulletin of			of
	atmospheres using optical	Materials Science 45(1):31			Sciences,
	comparative study March				Springer
	(2022)				
5	g-C ₃ N ₄ /Ca ₂ Fe ₂ O ₅	Durga Sankar Vavilapalli, Raja	4.996	5	Nature
	heterostructures for	Gopal Peri, R. K. Sharma, U. K.			publicati
	enhanced photocatalytic	Goutham, B Muthuraaman, M.			ons
	degradation of organic	S. Ramachandra Rao, Shubra			
	effluents under sunlight	Singh Scientific Reports, Nature			
6	(2021)	publications 11:19639	2.5	1	Elearrian
0	of brownmillerite	Gonal Per, Soma Banik B	3.3	1	Elsevier
	structured KBiFe ₂ O ₅ (2021)	Muthuraaman, M. S.			
		Ramachandra Rao, Shubra			
		Singh, Applied Surface Science			
		Advances 6, 100162			
7	Nitrogen -Ion Implantation	Durga Sankar Vavilapalli, Soma	2.070	2	
	Induced Bandgap Tailoring	Banik, Asokan Kandasami, M.			IOP
	in Multifunctional	S. Ramachandra Rao, and			
	Brownmillerite KBiFe2O5,	Shubra Singh ECS J. Solid State			
8	Controlled synthesis of	V Raja Preethi R Radha Robith	7 188	1	Elsevier
0	photoactive gallium based	K. Vinod S. Balakumar.	/.100	1	130 101
	sillenite single crystal and	Bhavana Gupta, Shubra Singh.			
	its application in	Solar Energy, 220, 890-900			
	environmental remediation				
	(2021)				
9	Rapid sonochemical	Saeed Ahmed, Irene M.C.Lo,	5.6	13	Elsevier
	synthesis of copper doped	ShubraSingh, Kishore Sridharan,			

	ZnO grafted on graphene as a multi-component	Materials Research Bulletin, 111290			
	hierarchically structured				
	photocatalyst,(2021)				
10	Facile one pot in situ synthesis of ZnS–ZnIn ₂ S ₄ composite for improved photocatalytic applications, (2021)	R. Janani, Ambrose A. Melvin, Shubra Singh, Materials Science in Semiconductor Processing, 122, , pp. 105480	4.644	16	Elsevier,
11	Hierarchical Ternary Sulfides as Effective Photocatalyst for Hydrogen Generation Through Water Splitting: A Review on the Performance of ZnIn2S4, (2021)	Ravichandran Janani, Raja Preethi V, Shubra Singh, Aishwarya Rani and Chang- Tang Chang, Catalysts, 11(2), 277	4.501	5	MDPI
12	Nitrogen Incorporated Photoactive Brownmillerite Ca ₂ Fe ₂ O ₅ for Energy and Environmental Applications, (2020)	Durga SankarVavilapalli, Soma Banik, RajaGopal Peri, B. Muthuraaman, M. Muralidhar, M. Murakami, A. Klimkowicz, K.Asokan, M. S. Ramachandra Rao & Shubra Singh, Scientific Reports, natureresearch 10:2713	4.996	13	Nature publicati ons
13	Growth of sillenite Bi ₁₂ FeO ₂₀ single crystals: Structural, Thermal, Optical, Photocatalytic features and first principle calculations, (2020)	Durga Sankar Vavilapalli, Ambrose A Melvin, Bellarmine F, Ramanjaneyulu Mannam, Velaga Srihari, Himanshu K. Poswal, Ambesh Dixit, M. S. Ramachandra Rao, Shubra Singh, Scientific Reports, Nature publications	4.996	10	Nature publicati ons
14	Photoactive brownmillerite Ba ₂ In ₂ O ₅ for photocatalytic degradation of organic pollutant, October 2020	Raja Preethi V, Sangeeth John, Gopalkrishna Bhalerao, Bhavana Gupta, Jaspreet Singh, Shubra Singh, Solid State Sciences 109, 106450	3.752	1	Science Direct, Elsevier
15	Electrical properties of nitric acid and DMSO treated PEDOT:PSS/n-Si hybrid heterostructures for optoelectronic applications, 2020	R. Anitha, Sumithra S. Menon, Gopalkrishna Bhalerao, Pradeep Siddham, K. Baskar, Shubra Singh, J. APPL. POLYM. SCI.	3.125	7	Wiley publicati ons
16	Multifunctional hierarchical $ZnIn_2S_{4\pm\delta}$ microflowers with photocatalytic and pseudocapacitive behavior (2019)	R. Janani, Malaya K.SahooBhavana Gupta, G.RangaRao, Shubra Singh, Solar Energy	7.188	11	Elsevier
17	Multifunctional brownmillerite KBiFe ₂ O ₅ : Structural, magento- dielectric, optical, photoelectrochemical studies and enhanced photocatalytic activity over perovskite BiFeO3(2019)	Durga Sankar Vavilapalli, Ambrose A. Melvin, S. Kavita, A.K. Yadav, S.N. Jha, D. Bhattacharyya, Saurav Ch. Sarma, Sebastian C. Petere, M.S. Ramachandra Rao, Shubra Singh, Solar Energy Materials and Solar Cells 200 109940	7.305	22	Science Direct, Elsevier

oxide nanocomposite-for enhanced visible Light photocatalytic activityMenon, Gopalkrishna Bhalerao, Particle SteverDirect, Elsevier19Xn0:1N oxynitride: Xn0:1N oxynitride: Anovel and unconventional Hydrogen evolution from Water, (2019)Sumithra Sivadas Menon, Cupta K.Baskar Gopal Bhalerao UV-visible light driver Shamima Hussain Bernaurdshaw Neppolian Shubra Singh, Renewable Energy, 141, 2019, 760-7698.63413Science Direct, Elsevier20Photoactive Brownmillerite Driven Sunlight-Driven Multiferroic KBF-Go, and Sirkant, K. Ramanjanaeyulu M Brajesh Tiwari, K. Mohan Kant, M. S. R. Rao, Shubra Singh, ACS Omega, 3 (12), 16643-4.13222ACS Publicati oas21Large area ultraviolet photodetector on surface modified StiGa Nayes (2018)Anitha R., Ramesh R., Loganathan R., Durga Sankar Vavilapalli, K. Baskar, Shubra Singh, Applied Surface Science, 435 1057-10647.39219Science Direct, Elsevier22Hybrid gallium mitride/organic modified StiGa Nayes semiconductor motivation on c plane semiconduction on material with visible light photoelectronien applications (2018)4.0111Science Direct, Elsevier23Development of Zn _{1-x} (2018)S.Pradeep, K. Prabakaran, Shubra Singh, Vacuum 154 296-3013.57412Science Direct, Elsevier24Formation of graphitic and diamond-like carbon by buber Subtra Kigo Naya Nubra Singh, K. Baskar, Nubra Singh, K. Saskar, Oundal, K. Baskar, Thin Solid Films 649 12 -10133.57412Science Direct, Elsevier25Grow	18	$Zn_{1-x}Ga_{x}O_{1-y}N_{y}$ – Graphene	R. Janani, Sumithra Sivadas	5.122	9	Science
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(2010) Research, B, Volume 455, p. 70- 79		(2010)	79			

28	Growth and comparison of single crystals and polycrystalline brownmillerite $Ca_2Fe_2O_5(2017)$	Suchita Dhankhar, Gopal Bhalerao, S. Ganesamoorthy, K. Baskar, Shubra Singh, Journal of Crystal Growth, 468, 311-315	1.83	17	Science Direct, Elsevier
29	Electrochemical performance of brownmillerite calcium ferrite for application as supercapacitor(2017)	Suchita Dhankhar, Sumithra Sivadas Menon, Bhavana Gupta, K Baskar and Shubra Singh, AIP conference proceedings 1832, 080050	-	3	AIP Publishin g
30	Comparative study on $Ga_{1-x}Zn_xN_{1-y}O_y$ oxynitride synthesized by different techniques and its application in photocatalytic hydrogen production, (2017)	Sumithra Sivadas Menon, K. Baskar, Shubra Singh, Journal of Crystal Growth, Volume 468, p. 139-143	1.83	2	Science Direct, Elsevier
31	Effect of low Cobalt doping on morphology and properties of calcium ferrite and its application as cathode in Solid oxide Fuel cell (2017)	Suchita Dhankhar; Pankaj Tiwari; K Baskar; Suddhasatwa Basu; Shubra Singh, Current Applied. Physics, 17, 467-473	2.856	10	Elsevier
32	Effect of Silicon doping in InGaN/GaN Heterostructures Grown by MOCVD (2017)	S. Surender, S. Pradeep, K. Prabakaran, Shubra Singh, R. Ramesh, K. Baskar, AIP Proceedings	-	-	AIP Publishin g
33	Effect of varying Ga content in ZnO:GaN solid solution synthesized by solution combustion technique for photocatalytic applications (2017);	Sumithra Sivadas Menon, R. Janani, K. Baskar, Bhavana Gupta, and Shubra Singh, AIP Conference Proceedings 1832, 050089 doi: 10.1063/1.4980322	-	2	AIP Publishin g
34	Self-Catalytic Growth of AlN microrods on sapphire substrate, (2017)	B. Kuppulingam, Shubra Singh and K. Baskar, Journal of Crystal Growth, 468 856–861	1.83	1	Science Direct, Elsevier
35	Effect of Growth Temperature on InGaN/GaN Heterostructures Grown by MOCVD,(2017)	S. Surender , K. Prabakaran , R. Loganathan , S. Pradeep , Shubra Singh , K. Baskar, Journal of Crystal Growth 468, p. 249-251.	1.83	12	Science Direct, Elsevier
36	Blue-Green-Red Emission from InGaN/GaN Heterostructures Grown by MOCVD (2017)	K. Prabakaran, R. Ramesh, M. Jayasakthi, R. Loganathan, S. Surender, S. Pradeep, Shubra Singh, K. Baskar, Materials today proceedings, Volume 4,12577-12581	Cite score - 2.3	1	Science Direct, Elsevier
37	Direct and Facile Room- Temperature Synthesis of Nanocrystalline Calcium Sulfate Dihydrate (Gypsum) (2016)	Kapil Gupta, Shubra Singh, and M. S. R. Rao, Cryst. Growth and Design, 16, 3256–3261	4.01	10	ACS Publicati ons
38	Anomalous red emission with competition and coexistence of defect and band edge emission in photo-electrochemically active	Sumithra Sivadas Menon, Bhavana Gupta, Sayantani Sen, Brajesh Tiwari, K. Baskar, Pallabi Pramanik, Anirban Bhattacharyya and Shubra Singh, RSC Adv., 6, 103081	4.036	7	Royal Society of Chemistr y

	$(Zn_{0.97}Ga_{0.03})(O_{0.95}N_{0.05})$ solid solution (2016)				
39	Growth behavior of GaN nanowires on c-plane sapphire substrate by applying various catalysts, (2016)	B. Kuppulingam, G. M. Bhalerao, Shubra Singh, K. Baskar, Appl. Phys. A, 122:667	2.983	3	Springer
40	Large Area Transparent ZnO Photodetectors with Au Wire Network Electrodes, (2016)	Kiruthika Shanmugam, Shubra Singh and G U Kulkarni, RSC Advances, 6, 44668-44672	4.036	17	Royal Sciety of Chemistry
41	Structural, morphology and optical properties of nanocrystalline GaN and AlGaN alloys prepared by EDTA complex route(2016)	B. Kuppulingam, S.E. Al Garni, S. Singh, K. Baskar, Materials Research Bulletin, 77, 228–235	5.6	5	Science Direct, Elsevier
42	Synthesis Of GaN:ZnO Solid Solution by Solution Combustion Method And Characterization For Photocatalytic Application(2016)	Sumithra Sivadas Menon, R. Anitha, Bhavana Gupta, K. Baskar, Shubra Singh ,AIP Proceedings 1731, 050025	-	6	AIP Publicatio ns
43	Synthesis and Characterization of Polycrystalline Brownmillerite Co doped Ca ₂ Fe ₂ O ₅ , (2016)	Suchita Dhankhar; Gopal Bhalerao; K Baskar; Shubra Singh, AIP Proceedings 1731, 140032	-	6	AIP Publicati ons

C. Books edited/written (since 2016)

Title of Book with ISBN Number	Name/s of authors	Remarks
Book Chapter- Growth and Characterization of Gallium Nitride Nanowires on Nickel/Sapphire Template by Chemical Vapour Deposition, The Physics of Semiconductor Devices. (2017). Springer Proceedings in Physics, vol 215, ISBN -13:978-3-319-97603-7	Sanjay S., Kandasamy P., Singh S., Baskar K.	Sharma R., Rawal D. (Eds.), Springer, Cham
Book Chapter- Optical Properties of Fe Based Perovskite and Oxygen Deficient Perovskite Compounds: A comparison, The Physics of Semiconductor Devices, Springer proceedings in physics 215, Chapter 70, 447, 2019 ISBN-10: 3319976036	Vavilapalli Durga Sankar, Shubra Singh	Sharma R., Rawal D. (Eds.), Springer, Cham
Book Chapter- Effect of Growth Time on Thickness of InAlN/GaN Heterostructures Grown by MOCVD, The Physics of Semiconductor Devices (2017) Springer Proceedings in Physics, vol 215, ISBN-13: 978-3-319-97603-7	P. Siddham, S. Subburaj, P. Kandasamy, Jayasakthi M, Shubra Singh, Baskar Krishnan	Sharma R., Rawal D. (Eds.), Springer, Cham
Book Chapter- Structural and Optical Characterization of InGaN/GaN Based Quantum Well Structures Grown by MOCVD: The Physics of Semiconductor Devices, Springer Proceedings in Physics, vol 215, 2019 ISBN-13: 978-3-319-97603-7	P. Kandasamy, S. Subburaj, P. Siddham, S. Sanjay, Jayasakthi M, R. Ramesh, E. Faulques, M. Balaji, Shubra Singh, Baskar Krishnan	Sharma R., Rawal D. (Eds.), Springer, Cham

D. Supervision at Ph.D level

Title of thesis	Year in which awarded
Investigation of $ZnIn_2S_4$ as a visible light responsive photocatalyst for hydrogen generation and water purification applications	2022
Multifunctional Brownmillerites for energy and environmental applications	2021
Development & Optimization of various inorganic and organic semiconductor based heterostructures for optoelectronic applications	2020
Investigation of Ca ₂ Fe ₂ O ₅ in single crystalline and polycrystalline form	2018
Investigations on Development of ZnO based Oxynitrides for Photocatalytic Applications	2018
Synthesis and Investigation of Sillenite $Bi_{24}Ga_2O_{39}$ and Brownmillerite $Ba_2In_2O_5$ for Hydrogen production and water pollutant degradation	Thesis submitted

E. Patents filed, if any,

Title	Patent details	Remarks
Method For Synthesis Of Sillenite Bi ₁₂ feo ₂₀ Single Crystal	IN376142	Granted, India 31/08/2021
Method For Developing Ca ₂ fe ₂ o ₅ Nanoparticles	IN360199	Granted, India 04/03/2021
For Enhanced		
Photocatalysis Under Direct Sunlight		
A Oxygen-Deficient Nanomaterial For Reversible	1N303301B	Granted, India 30-11-2018
Co ₂ Capture At Room Temperature		
A Novel Method For Synthesis Of Nanostructured	IN314806B	Granted, India 05-07-2019
Gypsum (CaSO ₄ .2H ₂ O)		

F. Funded research projects

Sl. No	Project Title	Name of the Funding Agency (UGC,DBT,etc.,)	From (mm/yy)	To (mm/yy)	PI / Co- PI	Budget (Rs. in lakh)
1	Fenton Process Adapted For Deactivation Of Antibacterial Resistant Genes And Antibiotic Removal Using Passivation Bypassed Fe Alloy Rate Controlled Using Photoactivity	DST	01/21	01/23	PI	54.18
2	Design and development of LED/Solar light reaction chamber based Photocatalytic Fuel Cell for wastewater treatment and simultaneous energy production using novel brownmillerite heterostructures	SERB	08/22	08/24	PI	23.79
3	Solar Light Driven Bulk And Nanostructured Oxygen Deficient Perovskites For Efficient Dye Degradation And Industrial Waste Water Treatment Applications	SERB	07/18	07/21	PI	37.69
4	Rusa2.0 (PO14- Development Of Fuel Cell Components For Hybrid Electric Vehicle Applications)	RUSA	12/20	12/22	Co- PI	64
5	Tuning Of Photoactivity Of Efficient Modified Brownmillerites By Swift Heavy Ion Irradiation For Energy And Environmental Applications	IUAC, New Delhi	03/21	03/24	PI	5.29
6	Thermochemical And Photocatalytic Conversion Of Solar Energy To Solar Fuels Solar Fuel Project Under Dst Solar Energy Harnessing Centr	DST SERI	06/18	12/22	Co- PI	29.5
7	Development of single crystal Gallium Oxide growth technology for power device applications	DRDO	03/19	03/22	Co- PI	144
8	Long term CRS proposals under the aegis of UGC-DAE CSR	UGC-DAE	09/14	08/17	Co- PI	6.39
9	UGC Research grant	UGC	01/18	10/20	PI	06
10	Development of bulk and thin films of co doped brownmillerite materials as mixed electronic ionic conducting compounds for solid oxide fuel cell applications	SERB	11/14	11/17	PI	8.64
11	Realization of high oxygen ion mobility in Ca and Sr based compounds	DST-INSPIRE	08/12	08/17	PI	71
12	Development of single crystalline and ceramic form of Garnettype Li _{7-x} Ga _x La ₃ Zr _{2-y} Ta _y O ₁₂ for next generation battery applications.	UGC DAE	Just sanction ed	-	-	Funds to be released



G. Papers presented in National/International conferences (5 most important ones)

Name of the Conference	Dates/Place	Nature of Participation	Title of the paper etc.
MRSI Conclave 2021	22.12.2021, IIT Madras	Invited talk	Structure-property correlation of materials for Energy and environmental Applications
International conference on laser deposition (ICOLD 2017)	November 20-22, 2017	Invited talk	Materials for Energy and Environment
Nanostructured Brownmillerites and Oxynitrides for Renewable Energy Applications (ISMANAM-2019)	8-12, July 2019, IIT Madras	Contributory Oral talk	Nanostructured Brownmillerites and Oxynitrides for Renewable Energy Applications
Third International conference on Nanotechnology for better living (ICNLB) 2016	25-29 May 2016	Contributory Oral talk (second prize)	Developing Multifunctional Nanomaterials for Alternate/Renewable Energy Applications
IUMRS-ICYRAM 2016	12.12.2016	Contributory Oral talk	On easily synthesized multifunctional nanomaterials for Energy Applications

H. Administrative Assignments during the period of report

- 1. Academic council Member, University Nominee, St. Mary's College, Tuticurin (2017-2019)
- 2. Course Co-ordinator Engineering Physics (AcTech Campus, Anna University) academic session Aug-Dec (2019)
- 3. Course Co-ordinator, Basic Sciences Lab, Ist Semester, Nov 2020-Feb 2021
- 4. Anna University representative for Tamil Nadu Common Entrance test 2021, Tiruchirapalli zone, 2021
- 5. Chief superintendent for PhD examinations, CGC (2017)
- 6. Screening committee member, Technology exhibition, CTDT, Anna University
- 7. PhD interview committee member, Anna University, 2020
- 8. Faculty incharge of purchase, Installtion and operation of HRTEM under ICRFT since 2017
- a. CTDT Panel member for selection of project recruitments (2019-2020 and 2021-2023)
- 9. Member of several Purchase committee panels throughout the year
- 10. Participated in administrative work related to FIST, UGC Annual report
- 11. Participated in NAAC work related to Centre, 2021
- 12. Expert committee member for reevaluation of answer scripts of Nov/Dec 2018 examinations in Open day.
- 13. Expert member, Open day evaluation, UG
- 14. Adjunct Faculty Member, Centre for Energy Storage and Technology, Anna University

i) Invited talks

- Invited talk, Session-Nanomaterials synthesis and solution route, MRSI Conclave, IIT Madras 2021
- Resource person, MHRD-SPARC, VIT Vellore, 09.01.2020
- Invited talk at International conference on Laser deposition (icold 2017) Nov 20-22, IIT Madras, 2017
- Invited talk at Science city 23.01.2019, "Principles and Applications of Nanoscience and Nanotechnolo from the 23rd to 25th January, 2019 at the Science City Auditorium
- Invited talk at Symposium on Advanced materials, VIT, Chennai Feb 1, 2019
- Expert lecture as resource person on "UV-Visible Spectroscopy: Basics and applications" in DST sponsored Karyashala Programme, 26.03.2022
- Invited talk in FDP programme on 01.02.2019, CGC, Anna University
- Invited speaker, Young Science Leader series, 13 September, 2020
- Invited lecture in the workshop on "recent trends in medical diagnosis techniques using exhaled breath biomarkers" scheduled to be held on 8th and 9th of January 2020
- Expert lecture, One day national workshop on smart materials, VIT Vellore, 27 April (2016)
- Contributory talk at ISMANAM 2019, IIT Madras, Chennai, 8th July 2019
- Invited talk Azadi ka Amrit mahotsav, Department of Physics, Bangalore University, 2022
- Invited talk Azadi ka Amrit mahotsav, Department of Chemistry, Bangalore University, 2021
- Invited talk at Department of Physics, ICT Mumbai, May 2022
- Invited talk in the DST-FIST and DST SERB workshop titled "Thin-film Deposition and Device Fabrication" on Jan 07-09,2022, VIT Vellore
- Invited lecture on "Advanced Materials for energy: Synthesis and Application" on 09/02/2018(Friday) a 2:00pm to 4:30pm in Theivanai Ammal College for Women (Autonomous), Villupuram
- Resource person, SERB Sponsored- Hands on Training & workshop for Utilization of Microscopic & Spectroscopic Equipment, March 21-26, 2022
- Invited talk, XXVI-NSCGE, 26th National Seminar on Crystal Growth and Epitaxy, March 14-15, 2016

ii) Workshop/Conferences/FDP/Symposium/Training Program organized

- Organizing secretary, UGC XII Plan short term course, Jan. 2017
- Co-ordinator, International workshop on crystalline Materials and Applications (IWCMA 2019), 03 Jan – 05 Jan 2019
- Co-ordinator for International Workshop 2018
- Co-ordinating Team, National Webinar series on Women in STEM: Academia to Industry (2020)
- Co-ordinator Member, International Workshop on Advanced Materials and Device Technology November 22 24, IWAMDT-2017, Anna University
- Co-organizer, Lecture cum demonstration programme, Crystal Growth Centre, 2017
- Course Co-ordinator, GIAN 2018, Crystal Growth Centre, Anna University

iii) Innovation in research and teaching-

• Work related to new material for water purification **published in print** (The New Indian Express) September 2020

iv) Awards and rewards

- Distinguished researcher award 2021, Anna University
- INSA Visiting Scientist Fellowship Award, 2017-2018, by INSA
- Young Female Scientist Award in the third international conference on "Nanotechnology for Better Living, NBL 2016 at Srinagar, 25-28 Nov 2016.
- UGC-FRP Award
- DST Inspire Faculty Award
- Travel Grant for Young scientists (below 35 years) under International Travel Support Scheme (ITS) by SERB to attend MRS Spring Meeting at SAN Francisco, California, 2014.
- Visiting Faculty Fellowship (2014-2015) from JNCASR, Bangalore, India.
- American Ceramic Society appreciation for Reviewer, 2017
- Other Awards by PhD Students: Fullbright scholarship, QuantEmX Scientist Exchange Award from ICAM, USA, Best poster awards at international conferences
- Prof. Lashkar Best Thesis Award in PhD (Department of Physics) in July 2009 at Indian Institute of Technology Madras (IITM), India

- **CEFIPRA Post doctorate Fellow** by Indo-French Centre for the Promotion of Advanced Research (IFCPAR), New Delhi, India, 2009.
- ISRS **best paper award** at the International symposium for Research Scholars (ISRS 2008 and ISRS 2014) IIT Madras, India
- All India rank of 40 in the GATE examinations in 2004 with 98.47 percentile conducted nationwide, granted by Indian Institute of Technologies, India
- Award of Lectureship NET (National Eligibility Test) in Physical Sciences by Joint CSIR-UGC (2003)
- Research student awarded Winner::Oral presentation to research student at BiC-FM, Skoltech Institute of Science & Technology, Russia
- *Best presentation award* received by MSc project student, 1st Virtual Summer School of nanoscience and nanomaterials, 10-30th July 2020, Organized by University of Madras
- Best Poster Award (National Symposium Crystal Growth & Epitaxy), Chennai, 2016 to PhD student,
- Four best paper awards to research group
- v) Membership of the academic bodies
- Life member: Materials Research Society of India (MRSI)
- Life member: Indian Science Congress

vi) Co-curricular and extra- curricular activities

- Reviewer, Indian adaptation of the "Introduction to Nanotechnology by Charles Poole, Frank Owens"
- Co-Chair, MRSI Conclave 2021, IIT Madras
- Member of Slack workspace Office of the Principal Scientific Adviser to Government of India, 2019-2020
- Young Science Leadership Virtual Internship: Mentor, 2020
- Advisory committee icold-2017, IIT Madras
- Chaired the session at IWAN 2017, Centre for Nanoscience and Technology, Anna University, Chennai
- Member, Assessment committee, CSIR- JRF to SRF, Dept. of Chemistry, IIT Madras, 2020
- Chaired the session at NANOMEET 2017, National Centre for Nanoscience and Nanotechnology, University of Madras, Chennai
- DSEHC-Coordinator for Anna University 2018-2021
- Doctoral Committee member for PhD students from VIT, Vellore and SRM University Chennai
- Refereed journals for but not limited to Solar Energy Materials and Solar Cells, RSc Advances, Journal of Luminescence, Scientific Reports, International Journal of Hydrogen Energy, Materials Research Express, Journal of Alloys & Compounds etc.
- Judge for poster presentation NSCoS 2020
- Co-Chair, Track Crystal growth and epitaxy, IWPSD 2023
- Participation: Young Science Leadership Workshop, 2020
- Participated in Online Learning Self-Assessment Organized by North-Eastern Hill University (NEHU), Shillong, Meghalaya
- Supervised several PG projects as well as UG interns, 2016-till present
- Attended the webinar on 27th October 2020, entitled 'Chemical Bonding: Connecting Academia with Industry, Webinar series on women in STEM
- Participated in training programme on "student evaluation and Question paper setting" at Anna University 24-26 October 2016
- External Expert, MSc Physics students dissertation review, VIT Vellore 13 April 2018
- Project Fellow Selection committee meeting held on 01.11.2021 for the TANSCHE Research Grant, University of Madras, 2021
- Research Advisory committee Member for PhD Scholar, Department of Energy, University of Madras since 2021

