Dr. Arunkumar Panneerselvam

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	https://scholar.google.com/citations?user=YKmnuGgAAAAJ&hl=en			
2019-Till date	Principal Scientist			
	Department of Food Packaging Technology			
	CSIR-Central Food Technolog	gical Research I	nstitute (CFTRI), Mysuru	
Research Interests	Nanotechnology Applications in Food Packaging & Food Safety			
Research Projects	Graphene Oxide Based Nanocomposite Films for Food Packaging Applications, funded by SERB (Rs. 52.4 Lakhs) – P.I.			
Completed		-		
	2 CSIR-Mission Mode Pr	•		
	3 CSIR-Mission Mode Proje	ct on Food & Co	onsumer Safety Solutions	
Industry Projects	3 Projects on Safety Evaluation of Food Packaging Materials			
(Completed)	2 Projects on Shelf-L	ife Evaluation o	of Food Products	
Technology	Carbonated Fruit Juice Beverages from Selected Fruits			
	CSIR funded Fast Track Transl	ation Project und	der Make in India Initiative	
	Technology Transferred	to 4 Food Bever	age Industries in India.	
Students	B.Tech/M.	B.Tech/M.Tech/M.Sc Guided: 6		
	Ongoing	: PhD: 2, Post-d	loc: 0	
Teaching	M.Sc (Food Technology): l	Packaging Tech	nology & Supply Chain,	
	Coursework for PhD (Chemical	l/Biological/Eng	gineering Science) students.	
	Short-term course for Entrep	reneurs, Farme	ers & Industry Personnel.	
National Committee	Member, Technical Committe		· · ·	
	Plastics Packaging Sectional Co		1 0	
	and Test for Plastics	s Sectional Com	mittee, PCD 27	
Professional bodies	Member of Royal So	•	• '	
	Life Member of Association o		<u> </u>	
	Life Member of Indi	`		
	& Materials F	Research Society	of India.	

2014 2010	Professional Experience	
2014-2019	Senior Scientist	
	Department of Food Packaging Technology, CSIR-CFTRI	
2013–2014	Assistant Professor (Chemistry),	
	National Institute of Food Technology Entrepreneurship and	
	Management, Thanjavur (NIFTEM-T) (formerly IICPT)	
	Taught Chemistry, Nanotechnology courses for B.Tech (Food Process	
	Engineering) and M.Tech (Food Science & Technology) students.	
	Post-doctoral Research Associate	
2011-2012	Department of Physics, King's College London, U.K.	
	Organometallic Synthesis of Reactive Nanoparticles for Radically	
	New Solder Materials Partners: Henkel Technologies, Schlumberger	
2008–2010	Post-doctoral Research Fellow	
	Department of Chemistry, University College Cork, Ireland.	
	Synthesis of Metal Fluoride and Metal Oxide Nanostructures by	
	Supercritical Fluid & Chemical Vapour Deposition Methods	
	Industry Partners: Intel, Seagate, Applied Materials & SAFC Hitech.	
2003–2004	Research Officer	
	Sanmar Speciality Chemicals Research Centre, Chennai.	
	Education	
2004–2008	Ph.D (Inorganic Materials Chemistry)	
	The University of Manchester, Manchester, U.K.	
	Awarded Overseas Student Scholarship to pursue PhD.	
Thesis	Preparation of Semiconductor Thin Films by	
	Chemical Vapour Deposition Techniques	
2001–2002	M.Phil (Inorganic Chemistry), CGPA: 4.74/6	
	Department of Inorganic Chemistry, University of Madras, Chennai, India.	
1999–2001	M.Sc (Chemistry) First Class (64.7%)	
	Department of Chemistry, Bharathidasan University, Tiruchirappalli, India.	
1996–1999	B.Sc (Chemistry), First Class with Distinction (78.5%)	
	Rajah Serfoji Govt. College, Thanjavur (Bharathidasan University)	

List of Publications (Arunkumar Panneerselvam)

- Srikanth R. Veerabhadraiah, Sweta Maji and **Arunkumar Panneerselvam**, "Solvent influence on the formation of ZnO nanoparticles by sonochemical technique and evaluation of UV-blocking efficiency", *Journal of Crystal Growth*, 2022, 579, 126430; Impact Factor: 1.79, Citations: 0.
- Arpita Das, **Arunkumar Panneerselvam**, Sudheer Kumar Yannam and Vallikannan Baskaran, "Shelf-life nutritional and sensory quality of cereal and herb based low glycaemic index foods for managing diabetes", *Journal of Food Processing and Preservation*, **2021**, **Impact Factor: 2.19**, **Citations: 0.**
- S. R. Stürzenbaum, M. Höckner, A. Panneerselvam, J. Levitt, J-S. Bouillard, S. Taniguchi, L-A. Dailey, R. A. Khanbeigi, E. V. Rosca, M. Thanou, K. Suhling, A. V. Zayats and M. Green, "Biosynthesis of luminescent quantum dots in an earthworm", *Nature Nanotechnology*, 2013, 8, 57-60; Impact Factor: 39.21, Citations: 116.
- 4 Mark Armstrong, **Arunkumar Panneerselvam**, Colm O'Regan, Michael Morris and Justin Holmes "Supercritical Fluid Synthesis of FeF₂ and CoF₂ Li-Ion Conversion Materials", *Journal of Materials Chemistry A*, 2013, 1, 10667-10676, Impact Factor: 12.73, Citations: 42.
- Hiren R. Kotadia, **Arunkumar Panneerselvam**, Mark W. Sugden, Hector Steen, Mark Green and Samjid H. Mannan, "Electronics assembly and high temperature reliability using Sn-3.8Ag-0.7Cu solder paste with Zn additives", *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2013**, **3**, **1786-1793**, **Impact Factor: 1.73**, **Citations: 7.**
- H. R. Kotadia, A. Panneerselvam, O. Mokhtari, M. A. Green and S. H. Mannan, "Massive spalling of Cu-Zn and Cu-Al intermetallic compounds at the interface between solders and Cu substrate during liquid state reaction", *Journal of Applied Physics*, 2012, 111, 074902 (1-6); Impact Factor: 2.54, Citations: 12.
- Arunkumar Panneerselvam, Ganga Periyasamy, Karthik Ramasamy, Mohammad Afzaal, Mohammad A. Malik, Paul O'Brien, Neil A. Burton, John Waters and Bart E. van Dongen, "Factors controlling material deposition in the CVD of nickel sulfides, selenides or phosphides from dichalcogenoimidodiphosphinato complexes: deposition, spectroscopic and computational studies", *Dalton Transactions*, 2010, 39, 6080-6091, (Invited Paper in Themed issue: Frontiers of Synthetic Solid State Chemistry); Impact Factor: 4.39, Citations: 14.
- 8 **Arunkumar Panneerselvam**, Chinh Q. Nguyen, Mohammad A. Malik, Paul O'Brien and James Raftery, "The CVD of silver selenide films from dichalcogenophosphinato and imidodichalcogenodiphosphinatosilver(I) single-source precursors", *Journal of Materials Chemistry*, **2009**, **19**, **419-427**; **Impact Factor**: **6.62**, **Citations**: **54**.

List of Publications (Arunkumar Panneerselvam)

- 9 **Arunkumar Panneerselvam**, Mohammad A. Malik, Paul O'Brien and Madeleine Helliwell, "The Aerosol-Assisted CVD of silver films from single-source precursors", *Chemical Vapour Deposition*, 2009, 15, 57-63; Impact Factor: 1.33, Citations: 15.
- 10 **Arunkumar Panneerselvam**, Mohammad A. Malik, Paul O'Brien and James Raftery, "The CVD of silver sulfide and silver thin films from a homoleptic crystalline single-source precursor", *Journal of Materials Chemistry*, 2008, 18, 3264-3269; Impact Factor: 6.62, Citations: 24.
- 11 Arunkumar Panneerselvam, Mohammad A. Malik, Mohammad Afzaal, Paul O'Brien and Madeleine Helliwell, "The chemical vapor deposition of nickel phosphide or selenide thin films from a single precursor", *Journal of the American Chemical Society*, 2008, 130, 2420-2421; Impact Factor: 15.41, Citations: 169.
- Arunkumar Panneerselvam, Chinh Q. Nguyen, John Waters, Mohammad A. Malik, Paul O'Brien, James Raftery and Madeleine Helliwell, "Ligand influence on the formation of P/Se semiconductor materials from metal-organic complexes", *Dalton Transactions*, 2008, 4499-4506 (Invited Paper in Themed issue: The Renaissance of Main Group Chemistry); Impact Factor: 4.39, Citations: 41.
- Roger M. Jarvis, Helen E. Johnson, Emma Olembe, **Arunkumar Panneerselvam**, Mohammad A. Malik, Mohammad Afzaal, Paul O'Brien and Royston Goodacre, "Towards quantitatively reproducible substrate for SERS", *Analyst*, **2008**, **133**, **1449-1452**; **Impact Factor: 4.61**, **Citations: 27**.
- 14 K.R.Krishnapriya, D.Saravanakumar, **P. Arunkumar** and M. Kandaswamy, "Synthesis of new oxamide-based ligand and its coordination behaviour towards copper(II)ion: Spectral and electrochemical studies, *Spectrochim. Acta A*, 2008, 69, 1077-1081; Impact Factor: 4.09, Citations: 10.
- 15 May C. Copsey, **Arunkumar Panneerselvam**, Mohammad Afzaal, Tristram Chivers, Paul O'Brien, "Syntheses, X-ray structures and AACVD studies of group 11 ditelluroimidodiphosphinate complexes", *Dalton Transactions*, **2007**, **1528-1538**; **Impact Factor: 4.39**, **Citations: 36**.
- 16 B. S. Krishnamoorthy, S. Chandrasekar, P. Arunkumar and K. Panchanatheswaran, "Dibenzyl(dichloro)(1,10-phenanthroline)tin(IV) chloroform solvate", *Applied Organometallic Chemistry*, 2005, 19, 186; Impact Factor: 4.1, Citations: 7.

Book Chapter

Arunkumar Panneerselvam and Mark Green, "Recent Advances in Quantum Dot Synthesis", *Nanoscience, Volume 1: Nanostructures through Chemistry*, **2013**, **1**, **208-243**ISBN: 978-1-84973-435-6; Royal Society of Chemistry Specialist Periodical Reports Series.

Conference Proceedings

- H. R. Kotadia, **A. Panneerselvam**, M. A. Green, M. P. Clode, S. H. Mannan and H. Steen, Reliability of electronics assembled using SAC + Zn solder pastes, *IMAPS High Temperature Electronics Conference (HiTEC)*, **May 8-10, 2012**, 000051-000057, Albuquerque, USA.
- Hiren R. Kotadia, **Arunkumar Panneerselvam**, Mark A. Green and Samjid H. Mannan, Limitations of Nanoparticle Enhanced Solder Pastes for Electronics Assembly, **IEEE** *Nano* **2012**, **12**th *IEEE International Conference on Nanotechnology*, 20-23 August 2012, Birmingham, U.K., Citations: 2.