Profile Page



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Designation	:	Assistant Professor	
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Qualification	:	 Post-PhD Research Scientist (Michelin Inc, South Carolina, USA, 2013-2017) Ph.D. Chemical Engineering (Indian Institute of Technology Bombay, 2013) M.Tech. Chemical Engineering (Indian Institute of Technology Kanpur) B. Tech. Chemical Engineering (Laxminarayan Institute of Technology, Nagpur University) 	
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Research Interests :

Nanomaterials in Energy, Environment and Health Care: Use of Nanomaterials in Renewable and Clean Energy resources such as solar cells and fuel cells, Environmental Pollution Control using nanomaterials, Developing nanoparticle-based biosensors for glucose and similar biological analytes.

Other Profile Links :

Google Scholar Link :

Dr Amit Saran Click Here

Personal Web Link :

Scopus ID <u>Click HereOrcid ID Click HereVidwan ID Click HerePublons ID Click HereGoogle Scholar ID Click</u> <u>Here</u>

Journal Publications :

Year	Journal	Publication
2015	Optical Materials, Volume 39,	"Effect of ZnS shell on optical properties of CdSe–ZnS core–shell
	2015, pages 46 - 51	quantum dots" S. Mathew, Bishwajeet Singh Bhardwaj, Amit D. Saran, P
		Radhakrishnan, VPN Nampoori, C P Girijavallabhan, Jayesh R. Bellare

2012	Journal of Colloid and Interface	"Superposition of Quantum Confinement Energy (SQCE) model for
	Science Volume 378, Issue 1,	estimating shell thickness in CdSe-CdS and CdSe-ZnS core-shell
	2012, pages 21-29.	quantum dots" Amit D. Saran, Anurag Mehra, Jayesh R. Bellare
2012	Journal of Applied Physics	"Size dependent optical properties of the CdSe-CdS core- shell quantum
	Volume 111, Issue 7, 2012, pages	dots in the strong confinement regime" S. Mathew, Amit D. Saran, Santhi
	074312 (1-8).	Ani Joseph, Bishwajeet Singh Bhardwaj, Deep Punj, P Radhakrishnan,
		VPN Nampoori, C P Girijavallabhan, Jayesh R. Bellare
2011	Colloids and Surfaces A:	"An Optimized Quantum Dot-Ligand System for Biosensing
	Physicochemical and Engineering	Applications: Evaluation as A Glucose Biosensor" Amit D. Saran,
	Aspects Volume 384, Issues 1-3,	Mayur M. Sadawana, Rohit Srivastava, Jayesh R. Bellare
	2011, pages 393- 400.	
2011	Journal of Materials Science:	"Nonlinear optical characterization and optical limiting of CdSe quantum
	Materials in Electronics Volume	dots prepared by micro emulsion technique" S. Mathew, Amit D. Saran,
	23, Issue 3, 2011, pages 739- 745.	Santhi Ani Joseph, Bishwajeet Singh Bhardwaj, Deep Punj, P
		Radhakrishnan, VPN Nampoori, C P Girijavallabhan, Jayesh R. Bellare
2010	Colloids and Surfaces A:	"Green engineering for large-scale synthesis of CdSe and CdSe-CdS
	Physicochemical and Engineering	quantum dots from microemulsion by double capping" Amit D. Saran,
	Aspects Volume 369, Issues 1-3,	Jayesh R. Bellare
	2010, pages 165- 175.	
2004	Polymer, Volume 45, Issue 25,	"Constrained Nonlinear Optimization for Solubility Parameters of
	pages 9602 9612	Poly(lactic acid) and Poly (glycolic acid) Validation and Comparison"
	pages 8003-8012.	1 ory(lactic acid) and 1 ory (grycone acid)- v and ation and comparison

Conference Publications :

Year	Conference	Publication
2012	Proceedings, Indo-Australian Symposium on	Quantum Dots of CdS, CdS-ZnS, CdS-Ag2S and
	Multifunctional Nanomaterials, Nanostructures and	CdS-PbS: Studies for Potential Biolabeling
	Applications, (MNNA-2007), New Delhi, 2012	Applications Amit D. Saran, Rachana, Rochish
		Thaokar, Anurag Mehra, Jayesh R. Bellare
2012	Proceedings, Research Scholar's Symposium,	Core-shell Quantum Dots: Microemulsion Synthesis
	Department of Chemical Engineering, IIT Bombay,	and Applications in Biosensing, Cell-differentiation
	March, 2012	and Optics Amit D. Saran, Anurag Mehra, Jayesh R.
		Bellare
2010	Proceedings, International Conference on	Core-Shell Quantum Dots: Synthesis,
	Nanotechnology & Health Care Applications	Characterization and Fluorescence Studies for
	(NateHCA-07), Mumbai, 2010	Potential Biological Applications Amit D. Saran,
		Rachana, Rochish Thaokar, Anurag Mehra, Jayesh R.
		Bellare