Profile of Dr. K.Jayakumar

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(i) Designation	:	Professor
(ii) Qualification	:	M.A., Ph.D.,Dip-in-Ger
(iii) Experience	:	28 years – Teaching, 35 years - Research
(iv) Specialization	:	Semiconductor Nanostructures, Bio Nanocomposites, Nano piezoelectric sensors
(v) Email id	:	kjkumar_gri@rediffmail.com

(vi) Research Guidance:

Degree	Awarded	Guiding
Ph.D	3	4

(vii) Publications

Sl. No.	Category	Total	For the period 2010-2016
1.	Chapters in Books	3	-
2.	No. of papers in Edited Volume / Proceedings	54	18
3.	No. of Publications in International and National Journal	73	47

Select Publications

Sl. No	Title of the Article	Name of the Journal	I/N	ISBN/ ISSN	Vol.	Pages	Date, Month and Year
1	Effect of Geometry on the pressure induced donor binding energy in semiconductor nanostructures	International Journal of computation al materials science and engineering	Ι		4	15500 181- 1813	2015
2	A DSP based real- time 3D FFt system for analysis for dynamic parameter	IEEE	Ι	978-1- 4799- 3914-5	14	1489- 1492	2014
3	The Possibility of semiconductor – metal transition in a spherical quantum DoT	Journal of mathematica l Chemistry	Ι		51	1815- 1821	2013

4	Coulomb Interaction of double acceptor in a semi magnetic quantum DoT	Superlattices and microstructu res	Ι	52	732- 737	2012
5	Possibility of semiconductor metal transition in a quantum wire	Journal of Computation al and Theoretical Nano Science	Ι	8	1-4	2011

(viii) Sponsored Projects

Major Projects handled so far		Major Proj	Major Projects handled during 2010- 2015		
Nos.	Financial Outlay	Nos.	Financial Outlay		
4	Rs.33.25 lakhs	3	Rs.26.37 lakhs		

(ix) Details of Projects (2010-16)

S. No.	Title of the Project	Funding Agency	Duration	Total Amount in lakhs
1.	Investigation on the Electronic and Impurity States in Semimagnetic Nanostructured Systems	UGC, India	2007-2010	Rs.6.88
2.	Development of Vibration Accelerometer using Piezoelectric Nanomaterials	ISRO, IIT- (B,Cen), India		
3.	Study on the Coulomb Interaction of Double Acceptors in Magnetic Semi-conductor Nanostructured Systems	UGC, India	2013-2016	Rs.10.96
4.	Synthesis and Characterization of Nano Piezoelectric Material for Vibration Sensor Applications	ISRO, India	2014-17	Rs.15.41 + First Phase

(x) Seminars/Conferences/Workshops attended (2010-16) : 13

(xi) Awards and Honours (2010-16)

- Fellow of Academy of Sciences (Chennai) Awarded
- Editorial Board Member
 - 1. Scientific World Journal
 - 2. International Journal of Metals
- Patent Filed

Histogram Based Vibration Signature Analysis for the Detection of Ball Bearing Defects. (Govt. Of India)

Docket No	: 9591
CBR No.	: 5833
Ref.No.	: E-2/936/2015-CHE
Appl.No.	: 1533/CHE/2015
11-1	1/1

(xii) Invited talks in National / International Conference (2010-16) : 11(xiii) Additional responsibilities (2010-16):

• Member – Various committees in GRI.