

Dr. Revathi R. BACSA

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PERSONAL

Born 1960, Swiss Nationality, Resident of Toulouse (>15yrs), married, 1son (student)

Languages: English (first language), French (bilingual), German, Tamil, Hindi

SKILLS

- Nanomaterials innovative process development, process upscaling, structure-property evaluation, Research experience Switzerland, USA, France, India
- Project evaluator for FP6, FP7, Horizon 2020 (Marie Curie, NMP, Factories of the future)
- Writing grant applications (ANR, FP7, Horizon2020, SME Instrument)
- Scientific writing and editing for non-English speaking scientists.
- Peer review, publications, patents and conference presentations
- Technology transfer to industry, initiation of scientific and industrial collaborations, project management

EDUCATION

1995 Certificat d'Etude Française, Université de Lausanne, Switzerland
1987 **PhD Materials Chemistry** – Indian Institute of Science Bangalore (IISc), INDIA
1979/1982 MS Chemistry: Delhi University, BS Chemistry: Madras University

PROFESSIONAL EXPERIENCE

2016- **Founder and CEO, *RR BACSA Scientific***, Castanet Tolosan, FRANCE
 Activities: Scientific expertise, Editing, Grant proposals for funding agencies
 Successful projects: ANR, Indo-French collaborative project, Fast track innovation pilot,
 Marie Curie Post-doctoral fellowships.

2016- EU consultant, International Development Partenariat, Brussels, Belgium
2016- Scientific Consultant and Editor, Cactus Communications, USA and India.
2016- Graphene expert, Ulsan National Institute of Technology, Ulsan, South Korea

2000- **Expert Evaluator, European Commission, Brussels, Belgium**

 « Nanosciences, Nanotechnologies, Materials and new Production Technologies – NMP»
 FP5, FP6, FP7-NMP SMALL FP7-NMP-LARGE, HORIZON (Marie Curie, NMP, H2020-FOF-2015, H2020-ENER LCE 2014,

1999-2015 **Senior Research Associate** CNRS, Toulouse University, FRANCE

- **Process development of few layer graphene** and graphene based hybrids - (New patented process WO 2013093350 (2011), WO 2013093358 (2011) Technology transfer, ARKEMA, France.
- **Polymer carbon nanotube composites**: Nanofiber reinforced polymer (CRFP) coating and spray for aerospace applications),
- **ZnO nanorods and spheres** by homogeneous CVD and their application in solar cells and photocatalysis.
- **Double walled carbon nanotubes** - process development, hydrogen storage (Toyota, Europe)

1993-1998 **Collaborateur Scientifique, Ecole Polytechnique Fédérale, Lausanne (Suisse)**

- **Photocatalytic Materials Synthesis : Titania based materials for the degradation of organic pollutants in waste water**
- **Dye sensitized solar cells (Graetzel Cell)** Studies on the stabilisation of the rutile phase in hydrothermally formed titania
- **Multiwalled Carbon nanotubes** : Preparation, purification and mechanical properties.

1990-1992 **Post-doctoral fellow, Materials Research Lab, Pennsylvania State University, USA**

- New experimental techniques for dielectric thin films. **Innovative process development, high impact publications, guiding master thesis**, Modelling the deposition process - technology transfer (CABOT, USA).

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PUBLICATIONS, AWARDS

- **50+**, **Patents: 2**, **Book Chapters: 3 (Citations > 5000, H=25)**
<http://scholar.google.fr/citations?user=qFX7E5cAAAAJ&hl=fr>
- **Innovation Prize**, Institute National Polytechnique, France 2014 (*New process for the production of few layer graphene and hybrids based on the same*).

OTHER

- Chemistry expert, Association 'Dire' (Données, Information Relais sur Environnement) a nonprofit association dedicated to inform the public about environmental issues.
- **Communiqués de presse CNRS**: 'Nanotubes: deux parois valent mieux qu'une' (4/10/2004)
<http://www2.cnrs.fr/presse/communiqué/557.htm?&theme=2>
- Specific surface area of carbon nanotubes and bundles of carbon nanotubes
<http://www.journals.elsevier.com/carbon/news/top-50-most-highly-cited-articles-from-50-years-of-carbon/>
- Member, Chorale de Jeux d'y –Castanet Tolosan