
Editorial: A decade of the *International Journal of Nanotechnology*

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Biographical notes: Lionel Vayssieres, BSc/MSc in Chemical Physics in 1989/1990 and PhD in Chemistry in 1995 from the Université Pierre & Marie Curie in Paris, France. Postdoc and visiting scientist at Uppsala University, Sweden; UT Austin; UNESCO Centre for Macromolecules & Materials, Stellenbosch University and iThemba LABS, South Africa; Glenn T. Seaborg Center, Lawrence Berkeley National Laboratory; Texas Materials Institute; EPFL, Switzerland; University of Queensland, Australia, and NTU, Singapore; Independent scientist at NIMS, Tsukuba, Japan 2004–2012. 111 publications (71 SCI) with over 6000 citations since the year 2000; 7 All-time highly cited papers in Materials Science, Chemistry, and Physics (ESI). Top 1% scientist in Materials Science (Thomson Reuters). Essential Science Indicators (November 2013) shows 241 citations/paper for Materials Science and 82 citations/paper for All Fields; He has presented over 300 lectures/seminars and he is currently a full time 1000-talent scholar professor, co-founder and co-director of the newly established *International Research Center for Renewable Energy* (IRCRE) at Xi'an Jiaotong University in the heart of the beautiful ancient city of Xi'an (Shaanxi Province) in the People's Republic of China as well as the founding Editor-in-Chief of the *International Journal of Nanotechnology*, Inderscience Publishers, UK since 2003.

This regular issue concludes the 2013 (10-year) edition of the *International Journal of Nanotechnology* with its 12-issue/year format. Volume 10 consisted of:

- Nos. 1–2, a special double-issue entitled: *Design, Synthesis and the Applications of Functional Materials*
- Nos. 3–4, a special double-issue entitled: *The 3rd International Workshop on Nanotechnology and Applications*
- Nos. 5–7, a special triple-issue entitled: *Nanoscale Science and Technology*
- Nos. 8–9, a special double-issue entitled: *2nd International Defence NanoTechnology Application Center Symposium on NanoTechnology*

- Nos. 10–11, a special double-issue entitled: *On Nanotechnology Research in Taiwan*
- No. 12, a regular issue.

This latest issue (Volume 10, No. 12) features articles on the following topics: heteronanostructures for solar water splitting, low cost fabrication of solar cell nanopowder, controlled upconversion nanostructures, photoinduced nanotoxicity of quantum dots, hybrid nanocomposites, medical application of scanning probe microscopy, Monte Carlo simulation of nano sensitising agents for radiotherapy and application of magnetic nanoparticles for energy source from research groups of seven different countries.

During a 10-year period since its inception, *Int. J. Nanotechnol.* has released 36 special issues and 10 regular ones, representing a total of about 600 articles (mostly invited) and about 10,000 pages of in-depth coverage of major topics related to nanotechnology written by researchers from over 35 different countries. The journal has been released at major international conferences in North America, Europe, Asia, and Africa, and is indexed in leading publication databases such as Academic OneFile (gale), Chemical Abstracts® Services, Compendex®, Current Contents® (Physical, Chemical and Earth Sciences and Engineering, Computing and Technology), Engineered Materials Abstracts, Expanded Academic ASAP, General OneFile, Google™Scholar, InfoTrac®, Ingenta Connect, INSPEC®, Journal Citation Reports®, Materials Science Citation Index®, Metadex, Pascal®, Solid State and Superconductivity Abstracts (PROQUEST®), Science Citation Index™, SciFinder Scholar®, Scopus®, Technology and Management (TEMA®), the Web of Knowledge®.

Int. J. Nanotechnol. is also listed in Excellence in Research for Australia (ERA): Journal list 2012.

As of December 2013, a total of over 2800 citations (with less than 1% self-cites) can be found with an *h* index of 24 according to *Scopus* (Elsevier) and *Web of Knowledge* (Thomson Reuters) databases, respectively. The yearly impact factors and related data (according to the *Journal Citation Reports Science Edition*®, Thomson Reuters) are as follows:

Year	Impact factor	Immediacy index	Cited half-life	Citing half-life
2007	0.750	0.130	3.2	5.6
2008	1.184	0.214	2.9	6.4
2009	1.234	0.170	2.8	6.6
2010	1.335	0.194	2.9	6.5
2011	1.013	0.348	3.5	6.1
2012	1.087	0.364	4.0	7.3

The first Impact Factor should have been released in 2007 (IF 2006) but *Thomson Scientific Corporation* officially announced that the citations were being collected only from the 2nd volume (2005) leaving behind hundreds of citations from the inaugural volume (2004) with several articles in the top 1–10% for citations in Materials Science. In 2010, JCR released a 5-year Impact Factor of 1.382 and of 1.186 in 2012 despite the relatively low distribution/access of the journal compared to major publishers such as Elsevier, Wiley, Springer, ACS, AIP, IOP etc.

The quality of the articles remained at high level and so from the very beginning of the journal. According to *SciFinder* Journal Name Analysis, the Top 25 ranking for citing journals (from 411) is, at the time of publication, as follows:

¹ <i>J. Appl. Phys.</i>	² <i>J. Phys. Chem. C</i>	³ <i>Nanotechnol.</i>	⁴ <i>J. Nanosci. Nanotech.</i>	⁵ <i>J. Mater. Chem.</i>
⁶ <i>Phys. Rev. B</i>	⁷ <i>Langmuir</i>	⁸ <i>Appl. Phys. Lett.</i>	⁹ <i>Chem. Mater.</i>	¹⁰ <i>Nano Lett.</i>
¹¹ <i>J. Am. Chem. Soc.</i>	¹² <i>ACS Nano</i>	¹³ <i>J. Phys. Cond. Matter</i>	¹⁴ <i>Chem. Rev.</i>	¹⁵ <i>J. Alloys Comp.</i>
¹⁶ <i>Angew. Chem. Int. Ed</i>	¹⁷ <i>J. Magn. Mag.</i>	¹⁸ <i>Thin Solid Films</i>	¹⁹ <i>Adv. Mater.</i>	²⁰ <i>J. Nanopart. Res.</i>
²¹ <i>Int. J. Nanotechnol.</i>	²² <i>J. Phys. D</i>	²³ <i>Chem. Eur. J.</i>	²⁴ <i>CrystEngComm.</i>	²⁵ <i>Small</i>

A successful innovative series of special issues dedicated to the best of nanotechnology in 16 specific countries was achieved with the release of 18 special issues over the last 10 years:

- **Australia** (A. Hill, C. Jagadish, and P. Majewski, **2008**)
- **Canada** (F. Rosei, **2008**)
- **China** (E. Wang, S. Yang, and J.G. Hou, **2007**)
- **Czech Republic** (M. Pumera, **2012**)
- **France** (F. Grasset and P. Goudeau, **2008**); **France II** (L. Levy, **2010**); **France III** (M. Hanbücken, M. Lannoo, W. Blanc, T. Djenizian and L. Santinacci, **2011**)
- **Greece** (A.G. Nassiopoulou and C. Fostakis, **2009**)
- **India** (A. Vinu and A. K. Tyagi, **2010**)
- **Iran** (A. Simchi, **2009**)
- **Korea** (S.W. Han, **2006**)
- **New Zealand** (J. Travas-sejdic and S.C. Hendy, **2009**)
- **Scotland** (H. Idriss and R. Schaub, **2012**)
- **Singapore** (X.W. Sun, Z. Dong and Y. Lei, **2007**)
- **Spain** (P. Serena, **2005**)
- **Taiwan** (H. Hosseinkhani and Kuei-Hsien Chen, **2013**)
- **Ukraine** (V. Pokropivny, **2006**)
- **Vietnam** (H. Le Van, **2011**).

This series is being perpetuated with a number of additional issues currently being prepared by eminent guest editors from all over the world. The aim of such series remains to genuinely identify active and representative research themes and researchers involved in nanotechnology in various countries. It does reveal the status and advances of nanotechnology as well as promoting scientists, institutions, laboratories, research networks and funding agencies all over the world. Such an initiative is already

contributing to develop a better knowledge of nanoscience and nanotechnology and thus, more active collaborations between researchers in different countries are happening. In many aspects, the journal truly became a worldwide major source of information on nanotechnology.

The journal also dedicated special issues to hot topics related to nanotechnology such as:

- **Nanotechnology Toolkit** (A. Korkin, J. Labanowski, and A. A. Volinsky, **2005**)
- **Nanomaterials for Security Technologies** (N. A. Kotov, **2007**)
- **Bionanotechnology** (J.C.D. daCosta, J.A. Brum, and J. Albuquerque e Castro, **2007**)
- **Nanotoxicity** (S. K. Sundaram and T. J. Weber, **2008**)
- **Nanosensors** (S. Islam, **2008**)
- **Nanoelectronics** (C.M. Tan and B.K. Tay, **2009**)
- **Transparent Conducting Oxides** (L. Vayssieres, **2009**)
- **Nanotechnology and Social Cohesion** (M.G. Tyshenko, **2010**)
- **Nanopharmaceuticals** (S.P. Puthli, **2011**)
- **Nanomedicine** (H. Hosseinkhani, **2012**)
- **Design, Synthesis & Applications of Functional Materials** (S.-I. Tanaka, T. Sato, L. Lu, D. Xue, T. Sekino and S. Yin, **2013**).

On September 1, 2011 Essential Science Indicators (Thomson Reuters) released its data analysis for the period and interestingly, *Int. J. Nanotechnol.* was featured in the 'New Entrants' journal category (for the greatest amount of citations for that period) for the field of Materials Science. Consequently, an interview of the editor-in-chief was conducted by ScienceWatch and released in November 2011: <http://archive.sciencewatch.com/inter/jou/2011/11novInterJNano/>.

The journal will strive to continue delivering high quality and geographically-balanced research articles on major topics related to nanoscience and nanotechnology with twelve-issue/year format. Both fundamental and applied aspects are equally represented by invited contributions from rising young scientists as well as more established ones from many different fields.

Moreover, beyond the very exciting new science, knowledge, and applications being discovered and investigated, the public awareness, perception, and understanding of nanoscience/nanotechnology is also of tremendous importance for the implementation and commercial success of such evolutionary and revolutionary technology. We intend to pursue such an educational direction and sincerely believe the journal is actively contributing to a better understanding of such an exciting new field of science.

Finally, all the authors, guest editors, referees, contributors, and readers are greatly acknowledged for their support and consideration for the journal for the last 10 years and hopefully for the next 10 years.