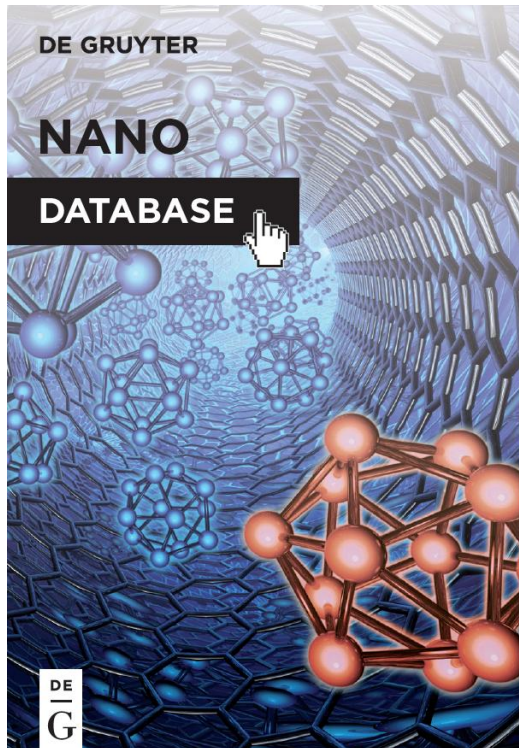


# **DATABASE NANO ONLINE**

## THE ONE-STOP-SHOP FOR NANO



- ▶ Full compilation of De Gruyter's Nano program covering nano science and technology
- ▶ Research results from all relevant disciplines including physics, chemistry, materials science, engineering and medicine

## NANO ONLINE: WHO IS WHO

### Our authors & editors are renowned key-opinion-leaders

- ▶ Andreas Ostendorf (SPIE Fellow and former president of the Laser Institute of America)
- ▶ Robert Schlögl (Director of Fritz-Haber-Institute of the Max Planck Society and MP Institute for Chemical Energy Conversion)

### Society partners in nano Online

- ▶ European Foundation for Clinical Nanomedicine
- ▶ Mineralogical Society of America
- ▶ Mineralogical Society of Great Britain and Ireland
- ▶ German Society for Laser Surgery
- ▶ German Society for Biomaterials

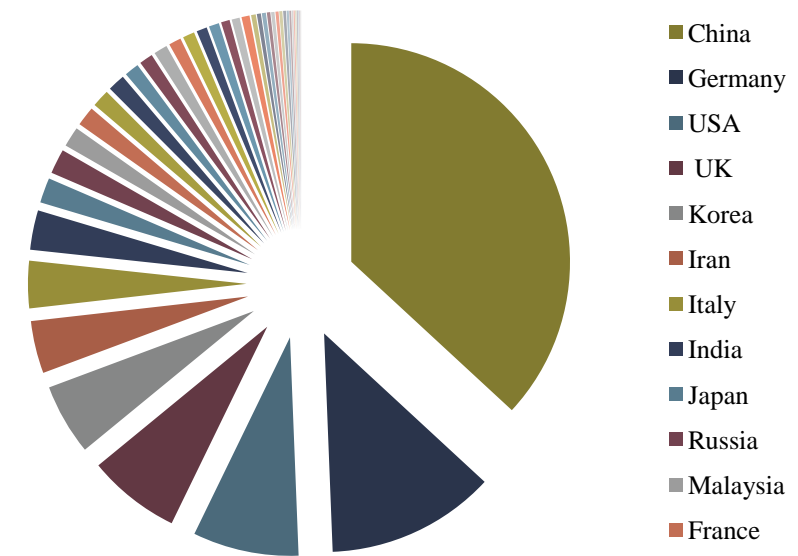
### Official research reports of DFG and EU grants included

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### Authors and editors at renowned research institutions

- ▶ MIT, CALTECH, Harvard, Max Planck Institutes, Technion

### Our authors are truly international

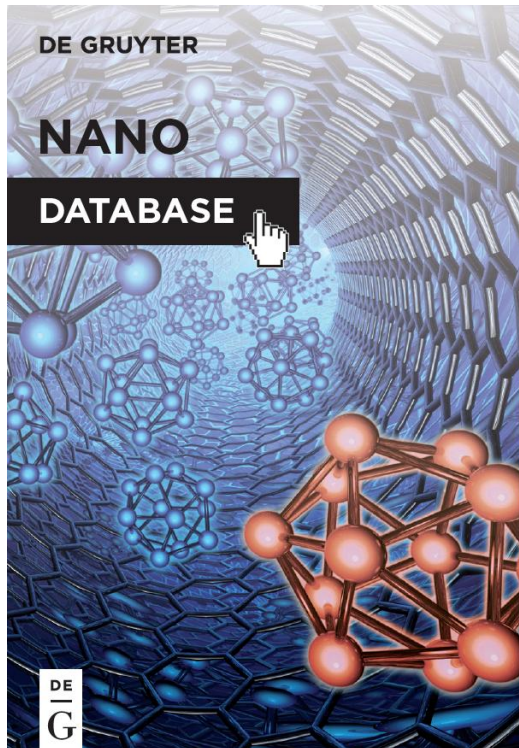


## COMPREHENSIVE CONTENT

- ▶ The database contains more than 1,900 entries (an equivalent of more than 15,000 print pages) from a variety of sources:
  - ▶ 144 chapters from 14 books
  - ▶ 1,142 articles from 55 De Gruyter journals
  - ▶ 636 articles from third party Open Access journals
- ▶ Including annual updates of more than 250 articles (about 5,000 print pages)

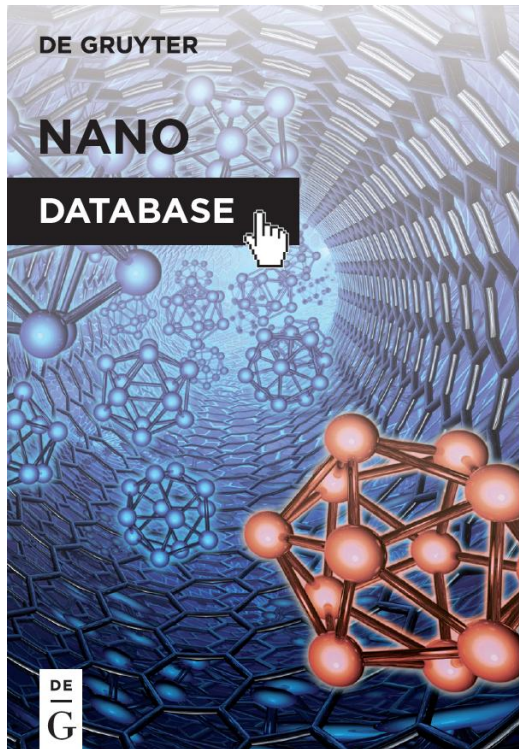


## KEY FEATURES



- ▶ Quick access due to classification of articles in multi-dimensional search grid: material, technology, property, structure, application, impact on society
- ▶ Time-saving access via extensive linking between documents to additional relevant content

## KEY FEATURES



- ▶ Supreme search functionalities for improved user experience and faster search results
- ▶ Non-restrictive DRM allows for an unlimited number of simultaneous users per campus or institutions



The screenshot displays the nano Online database interface. At the top, a navigation bar contains links: [Add Note](#), [Print](#), [Save to bookshelf](#), [Cite/Export](#), [Your opinion](#), [Email](#), [Share](#), and [Text size](#). The main content area features a cover image of the 'NANO DATABASE' on the left, a central text block with the title 'nano Online' and subtitle 'Physics, Chemistry and Materials Science at the Nanoscale', and a right sidebar with pricing and access information. Annotations with leader lines point to specific features: 'Add note to personal account' points to the 'Add Note' link; 'Saving options for database entries' points to the 'Save to bookshelf' link; 'Send feedback to De Gruyter' points to the 'Your opinion' link; 'Change text size for entry or result list' points to the 'Text size' link; 'Opens the search function' points to the 'SEARCH DATABASE' button; and 'Allows citation in MLA, APA, and Chicago styles, or export elements in RIS format' points to the 'Cite/Export' link.

**Add note to personal account**

**Saving options for database entries**

**Send feedback to De Gruyter**

**Change text size for entry or result list**

**Opens the search function**

**Allows citation in MLA, APA, and Chicago styles, or export elements in RIS format**

**Annotations:**

- Add Note
- Print
- Save to bookshelf
- Cite/Export
- Your opinion
- Email
- Share
- Text size

**Database Information:**

- NANO DATABASE**
- nano Online**
- Physics, Chemistry and Materials Science at the Nanoscale
- One-time purchase of base content (RRP), subsequently annual update fee for new content
- Get New Entry Alert

**Search and Navigation:**

- SEARCH DATABASE
- Overview
- Details
- Comments (0)

**Access and Pricing:**

- Access brought to you by: De Gruyter / TCS
- DE GRUYTER**
- ONLINE VERSION (PURCHASE OPTION)
- ISSN: 2364-9712
- See all formats and pricing
- Online Version (Purchase Option)
- RRP
- € [D] 7000.00 / US\$ 9450.00 / GBP 5250.00\*
- Update price

**1 SEARCH****SIMPLE SEARCH**

nano Online

DETAILS >

You are looking at 1-10 of 231 entries [Clear All](#)

Search

Search publication

Advanced Search >

Filter

Topics

Items per page 10 Sort by

Electrical transport properties

Yu, Gui-Feng ; Yu, Miao ; Pan, V. 2015

SAVE

Search for  
"HCV RNA"  
(Full text  
search)

**ADVANCED SEARCH (MORE SEARCH OPTIONS)**

nano Online

DETAILS >

You are looking at 1-10 of 231 entries

Search

Full Text

Advanced Search >

Filter

Topics

Items per page 10 Sort by

Electrical transport properties

Yu, Gui-Feng ; Yu, Miao ; Pan, V. 2015

SAVE

BRCA1 and BRCA2 protein

Choose from a number  
of search criteria



## 2 RESULT LIST

Number of entries

Select the number of results per page

Results can be sorted by, e.g. title, book title, year or relevance

Clicking on the title opens document display

Additional information: book title, year, category

The screenshot shows the 'nano Online' search interface. At the top left is a logo with the text 'nano Online'. To its right is a search bar containing 'Full Text: HCV RNA' and a 'Clear All' button. Below the search bar, a status bar indicates 'You are looking at 1-3 of 3 entries'. On the left side, there is a sidebar with a 'Search' section containing a dropdown menu set to 'Full Text', a text input field with 'HCV RNA', and buttons for 'Add row', 'CLEAR', and 'SEARCH'. Below the search section is a 'Filter' section with a 'Topics' dropdown and a 'Structure (3)' link. The main content area displays a list of search results. The first result is titled 'Detection of unamplified HCV RNA in serum using a novel two metallic nanoparticle platform' by Sheakhy, Sherif M.; Quirga, Bassam S.; Azzazy, Hassan M.E., published in 2013. The second result is titled 'HIV-specific immunotherapy with DermaVir, the first pDNA/PEIm pathogen-like nanomedicine' by Liszewicz, Julianna; Lőrincz, Orsolya, published in 2012. Both results have a 'SAVE' button next to them. At the bottom right of the results list, there is a 'FREE ACCESS' button. Annotations with lines point to various elements: 'Number of entries' points to the status bar; 'Select the number of results per page' points to the 'Items per page' dropdown set to '10'; 'Results can be sorted by, e.g. title, book title, year or relevance' points to the 'Sort by' dropdown menu which has options 'Title', 'Author', and 'Publication Year'; 'Clicking on the title opens document display' points to the title of the second result; and 'Additional information: book title, year, category' points to the author and year information of the second result.

### 3 DOCUMENT DISPLAY

Navigate between results

Change to "reading view"

Title

Author

Detailed metadata

Suche

Voltext

HCV RNA

+1 Zeile hinzufügen

LÖSCHEN

SUCHE

MEHR SUCHOPTIONEN

Zurück zur Ergebnisliste

Reading View

DOI: 10.1515/nano.0008.00004

**Detection of unamplified HCV RNA in serum using a novel two metallic nanoparticle platform**

Sherif M. Shawky<sup>1</sup> / Bassem S. Guirgis<sup>1</sup> / Hassan M.E. Azzazy<sup>1,2</sup>

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Quellenangabe: Sherif M. Shawky, Bassem S. Guirgis, Hassan M.E. Azzazy. Detection of unamplified HCV RNA in serum using a novel two metallic nanoparticle platform, nano Online (2018). DOI: 10.1515/nano.0008.00004

Originalpublikation: Sherif M. Shawky, Bassem S. Guirgis, Hassan M.E. Azzazy. Detection of unamplified HCV RNA in serum using a novel two metallic nanoparticle platform, Clinical Chemistry and Laboratory Medicine, 52, 565 (2013). DOI: 10.1515/colm-2013-0521

**Abstract**

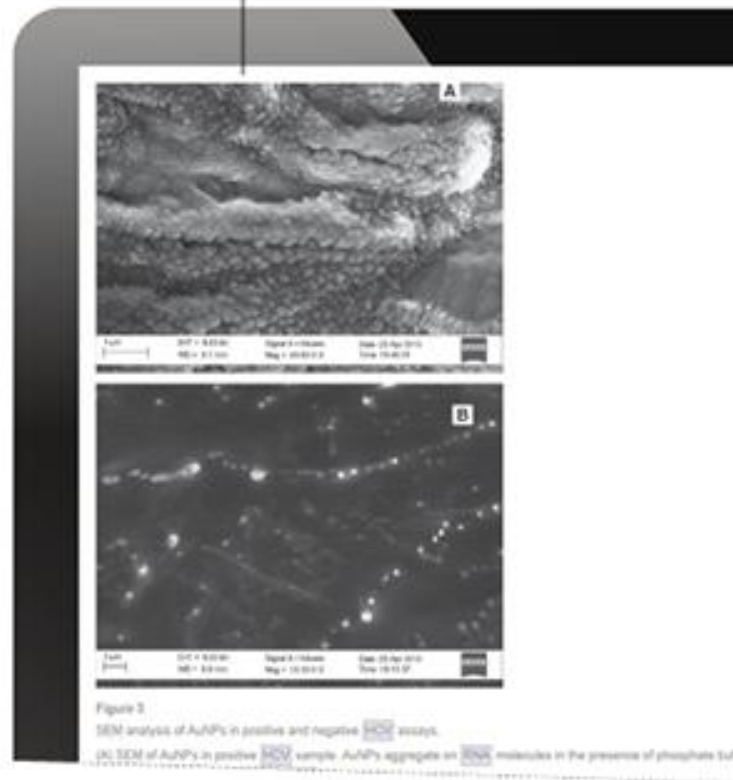
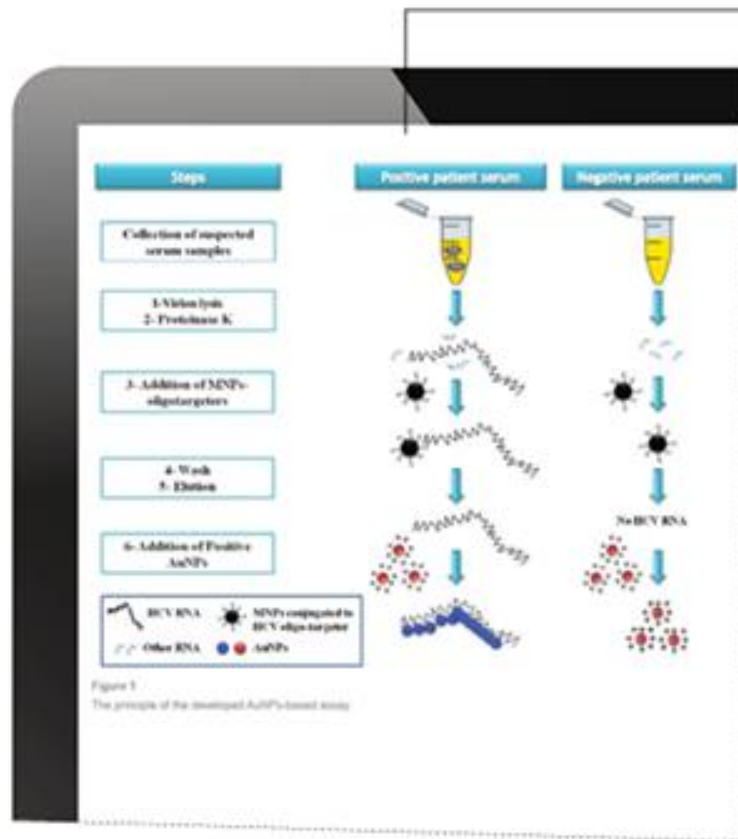
Background: The unique properties of metallic nanoparticles have enabled their utilization in biosensing applications. A novel assay for the detection of hepatitis C virus (HCV) RNA in serum specimens has been developed using magnetic nanoparticles and unmodified cationic gold nanoparticles (AuNPs).

Methods: HCV RNA was extracted using magnetic nanoparticles functionalized with an oligonucleotide specific to HCV RNA. Extracted RNA is reacted with oligonucleotide sequence specific for HCV RNA in presence of unmodified cationic AuNPs. In positive samples, AuNPs are aligned onto the phosphate backbone of the RNA and their aggregation

...online from red to blue. In the absence of target, solution color remains red. The assay has been

**4** FIGURE DISPLAY

Enriched content through numerous  
graphics, illustrations and tables



## 5 RELATED CONTENT

### Related Content

1. [Silicon nanowire-transistor biosensor for study of molecule-molecule interactions](#) by Fan Yang, Guo-Jun Zhang (2014)
2. [Self-assembled polysaccharide nanostructures for controlled-release applications](#) by James M. Myrick, Venkat Kalyan Vendra, Sitaraman Krishnan (2014)
3. [Fabrication and characterization of electrospun polylactide/ \$\beta\$ -tricalcium phosphate hybrid meshes for potential applications in hard tissue repair](#) by Loredana Tammaro, Vittoria Vittoria, Ralf Wynne, Jürgen Weisser, Birgit Beer, Susanne Thein, Matthias Schnelldorfer (2014)
4. [Amyloid-like fibrils labeled with magnetic nanoparticles](#) by Nicolas Solin (2013)
5. [Enhanced Antibacterial Activity of CeO<sub>2</sub> Nanoparticles by Surfactants](#) by Rosalia Cuahatecontzi-Delint, Miguel A Mendez-Rojas, Erick R Bandala, Marco A Quiroz, Sonia Recillas, Jose Luis Sanchez-Salas (2013)
6. [Synthetic routes to magnetic nanoparticles for MPI](#) by Harald Kratz, Dietmar Eberbeck, Susanne Wagner, Matthias Tautitz, Jörg Schnorr (2013)
7. [Experimental, modeling and optimization study on the mechanical properties of epoxy/high-impact polystyrene/multi-walled carbon nanotube ternary nanocomposite using artificial neural network and genetic algorithm](#) by Abdolhossein Fereidoon, Amin Hamed Mashhadzadeh, Yasser Bostamiyan (2013)
8. [A convenient method for preparation of polystyrene-single-walled carbon nanotubes by metal-catalyzed living radical polymerization method](#) by Mojtaba Abbasian, Saeed Yeganeh Fathi (2013)
9. [Preparation of graphene adsorbents and their applications in water purification](#) by Jing Xu, Hongda Lv, Sheng-Tao Yang, Jianbin Luo (2013)
10. [Evaluation of flow-induced nanoclay orientation and microstructural stability in polyethylene/clay nanocomposites via melt rheological and thermal analysis](#) by Nima Mostofi Sarkari, Ali Asghar Khatibi, Hossein Nazockdast (2014)
11. [Formation of highly hydrophobic wood surfaces using silica nanoparticles modified with long-chain alkylsilane](#) by Xiaoping Wang, Yubo Chai, Junliang Liu (2012)

Extensive linking within the database to additional relevant content

## 6 BROWSE FUNCTION

Combine multiple filter options for precise search results

