

Title: Technology Briefing and Scouting Report: Molybdenum Disulfide – an inorganic analogue of Graphene and other interesting inorganic nanomaterials for the future

Description: This report highlights recent academic research papers published in 2012 that could be of interest to companies developing new technologies that involve inorganic nanomaterials. Molybdenum Disulfide (MoS₂) is of particular interest as it is an inorganic analogue of graphene and demonstrates exciting properties including a low coefficient of friction, robustness and a direct electronic bandgap. The report highlights recent research regarding MoS₂ and also contains expert opinions about potential applications, availability and whether or not MoS₂ could replace graphene. Interesting finds are also reported for other inorganic materials.

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- *College of Nanoscale Science and Engineering, SUNY - University at Albany*
- *University of Prince Edward Island*
- *Jozef Stefan Institute*
- *Hefei University*
- *Nankai University*
- *Nanyang Technological University*

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- Massachusetts Institute of Technology
- Georgia Institute of Technology
- Marquette University
- University of Science and Technology of China
- University of Prince Edward Island
- Hefei University
- Nanyang Technological University
- Chinese Academy of Sciences
- Universidad de Chile
- Max Planck Institute of Colloids and Interfaces
- Escuela Técnica Superior de Ingenieros Industriales
- Fudan University
- Nikolaev Institute of Inorganic Chemistry
- Southern Illinois University
- Chinese Academy of Sciences

- Nanyang Technological University
- Hefei University
- Huazhong University of Science & Technology
- University of Arkansas
- State Univ. of New York
- Zhanjiang Normal University
- Instituto Tecnológico de Oaxaca
- Nankai University
- Howard University
- Jozef Stefan Institute
- Tunghai University
- University of Cincinnati
- China University of Geosciences
- Shanghai Jiao Tong University
- McGill University
- University of Wollongong
- University of Malaya

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Includes: Organisation name, Research Title(s), Review and Synopsis of Results, Link, Author Details and Publication

- Belarusian State University
- J.S.M. College
- University of Tirgu-Mures
- Shandong University
- Center for Nanoscale Sci. & Technol, NIST
- University of Peradeniya
- Southern Illinois University
- Institute of Polymer Science and Technology (ICTP-CSIC)
- Belyi Metal-Polymer Research Institute of National Academy of Sciences of Belarus
- Ecole Nationale d'Ingénieurs de Sfax
- King Abdulaziz University
- Yonsei University
- Ben-Gurion University of the Negev
- Naval Postgraduate School
- Jiangsu University
- Institute of Inorganic Chemistry
- Colorado State University
- Russian Academy of Sciences
- University of Cambridge
- Petroleum-Gas University of Ploiești
- Ferdowsi University of Mashhad

- University of Glasgow
- Universidad Nacional de Mar del Plata-National Research Council (CONICET)
- Michigan State University
- Instituto de Ciencia de Materiales de Madrid
- Texas Tech University
- Institute of Solid State Chemistry UB RAS
- University of Quebec at Montreal
- Indian Institute of Technology Kanpur
- St. Joseph's College
- University of Wisconsin-Milwaukee
- J.N.N. College of Engineering,
- Shanghai Jiao Tong University
- New Mexico State University
- Russian Academy of Sciences
- Fudan University
- University of Utah
- Chulalongkorn University
- University of Tennessee
- Institute of Inorganic Chemistry AS CR
- Rice University
- University of Johannesburg
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- Institut Charles Gerhardt
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