

# Engineering Village

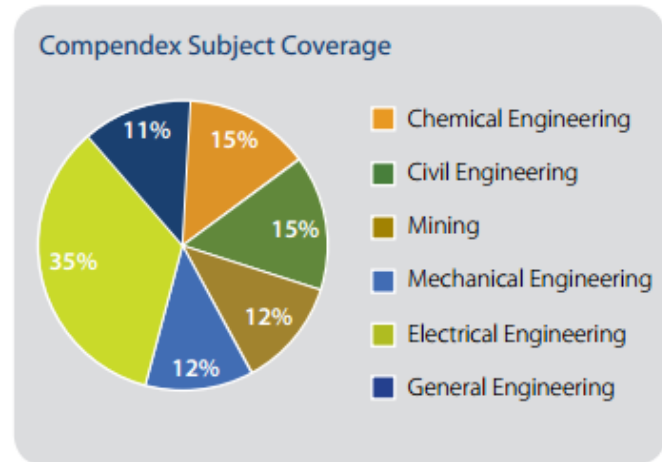
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18 matching terms found for: greenhouse

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- ☐ Air pollution
- ☒ Air pollution control
- ☒ Atmospheric temperature
- ☐ Carbon dioxide
- ☐ Chlorofluorocarbons

Term

- ☐ Climate change
- ☐ Climatology
- ☐ Fluorocarbons
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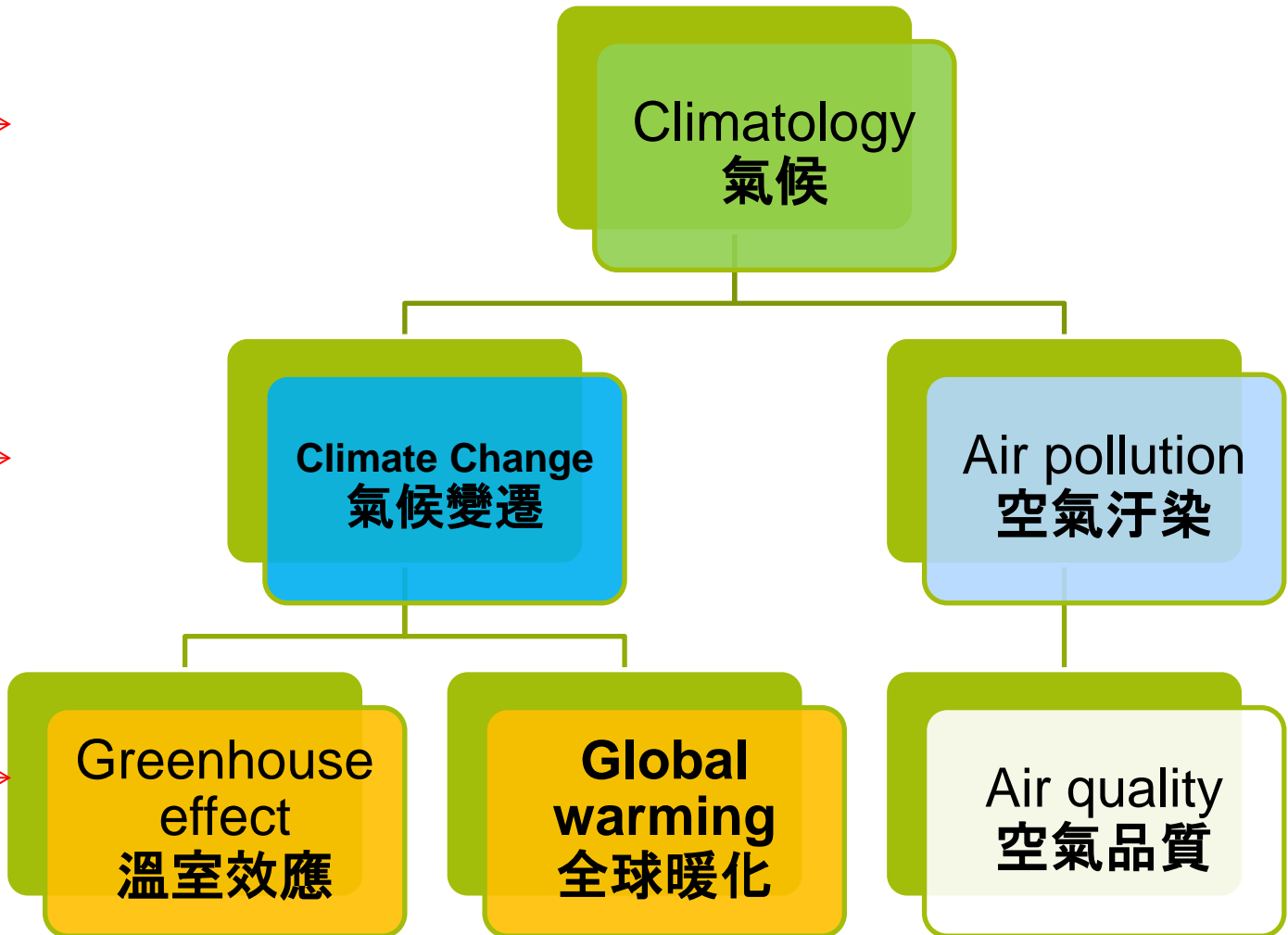
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溫室效應

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全球暖化

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# 結果頁面-1

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Bao, Yiwang (37)

Ma, Junfeng (22)

Wang, Ling (21)

Yao, Yan (20)

Chiang, Che Ming (20)

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Author affiliation

State Key Laboratory Of Green (63)

Building Materials, China

Building Materials Acad...

School Of Architecture, Harbin (32)

Institute Of Technology

Research Center Of Green (26)

Building Materials And Waste

Resources Reuse, Ningbo I...

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State Key Laboratory Of Silicate (25)

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Source title

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Portland's green building initiative and an application of the LEED rating system

Bennett, Rob; Lee, Allen; Syphers, Geof; Scott, Alan

Source: Proceedings ACEEE Summer Study on Energy Efficiency in Buildings, v 9, p 9.13-9.24, 2000

Database: Compendex

Abstract Detailed Show preview FIND IT AT NCHUI

Discuss on green building materials and related issues

Wang, Shijin (Department of Engineering Management, Shandong University of Technology, Zibo 255049, China)

Source: Advanced Materials Research, v 280, p 165

Database: Compendex

Abstract Detailed Show preview Full text FIND IT AT NCHUI

Reasonable construction of sustainable water environment in

Li, Haiyan (School of Environment and Energy, Beijing University of

the 3rd International Conference on Environmental Technology

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Study on technology status and development strategy of green

Li, Xue Ping (School of Architecture, Xi'an University of Architecture and Technology, Xi'an 710055, China); Yan, Zeng Feng

Source: Applied Mechanics and Materials, v

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A case study on the design of green building in Expo 2010 Shanghai

Fan, Junjie (School of Civil Engineering and Architecture, Ningbo Institute of Technology, Zhejiang University, Ningbo City, Zhejiang Province, 315100, China)

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Abstract Detailed Show preview Full text FIND IT AT NCHUI

Discuss on China's green building materials development

Ming, Li (School of Tourism and Urban Management, Jiangxi University of Finance and Economics, Nan Chang, Jiangxi Province, 330013, China)

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Research on green building assessment system based on BP neural network and life cycle assessment (LCA)

Xia, Li Ming (School of management, Tianjin University of Technology, Tianjin 300384, China); Liu, Jing Jing

Source: Applied Mechanics and Materials, v 357-360, p 51

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The study on the certification framework for Green Building Materials Label (GBML) in Taiwan

Tsai, Ming-Chang (Institute of Architecture, National Cheng Kung University, Taiwan); Tzeng, Chun-Ta; Chiang, Che-Ming; Zheng, Yuan-Liang

Source: 10th Internation

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2. ☐ Discuss on green building materials and related issues

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3. ☐ Reasonable construction of sustainable water environment in green building

Ji, Haiyan (School of Environment and Energy, Beijing University of Civil Engineering and Architecture, Beijing, China); Huang, Yan Source: Proceedings of the 3rd International Conference on Environmental Technology and Knowledge Transfer  
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4. ☐ Study on technology status and development

Ji, Xue Ping (School of Architecture, Xi'an University of Architecture and Technology, Xi'an 710055, China)  
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5. ☐ Case study on the design of green building in Expo 2010 Shanghai

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Title: **Stress** wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom  
Authors: Brujan, Emil-Alexandru<sup>1, 2</sup> ; Vogel, Alfred<sup>1</sup>   
Author affiliation: <sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany  
<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 313, 060042 Bucharest, Romania  
Corresponding author: Vogel, A. (vogel@bmo.uni-luebeck.de)  
Source title: Journal of Fluid Mechanics  
Abbreviated source title: J. Fluid Mech.  
Volume: 558  
Issue date: July 10, 2006  
Publication year: 2006  
Pages: 281-308  
Language: English  
ISSN: 00221120  
E-ISSN: 14697645  
CODEN: JFLSA7  
Document type: Journal article (JA)  
Publisher: Cambridge University Press  
Abstract: **Stress** wave emission and cavitation bubble dynamics after optical breakdown in water and a tissue phantom with Nd: YAG laser pulses of ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved in  
Number of references: 79  
Main heading: Acoustic emissions  
Controlled terms: Bubbles (in fluids) - Cavitation - Compressive **stress** - Computer simulation - Mechanical properties - Semiconductor lasers - Tensile **stress**  
Uncontrolled terms: Cavitation bubble dynamics - Compressive **stress** wave - Optical breakdown  
Classification code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 744.4.1 Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Gases, Liquids and Solids  
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DOI: 10.1017/S0022112006000115  
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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.  
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Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.  
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Bennett, Rob; Lee, Allen; Syphers, Geof; Scott, Alan Source: Proceedings of the 3rd International Conference on Environmental Technology and Knowledge Transfer

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☐ Discuss on green building materials and related issues

Wang, Shijin (Department of Engineering Management, Shandong University of Technology, Zibo 255049, China) Source: Advanced Materials Research, v 280, p

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☐ Reasonable construction of sustainable water environment in green building

Li, Haiyan (School of Environment and Energy, Beijing University of Civil Engineering and Architecture, Beijing, China); Huang, Yan Source: Proceedings of the 3rd International Conference on Environmental Technology and Knowledge Transfer

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☐ Study on technology status and development strategy of green building in xi'an area

Li, Xue Ping (School of Architecture, Xi'an University of Architecture and Technology, Xi'an 710055, China); Yan, Zeng Feng Source: Applied Mechanics and Materials

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☐ A case study on the design of green building in Expo 2010 Shanghai

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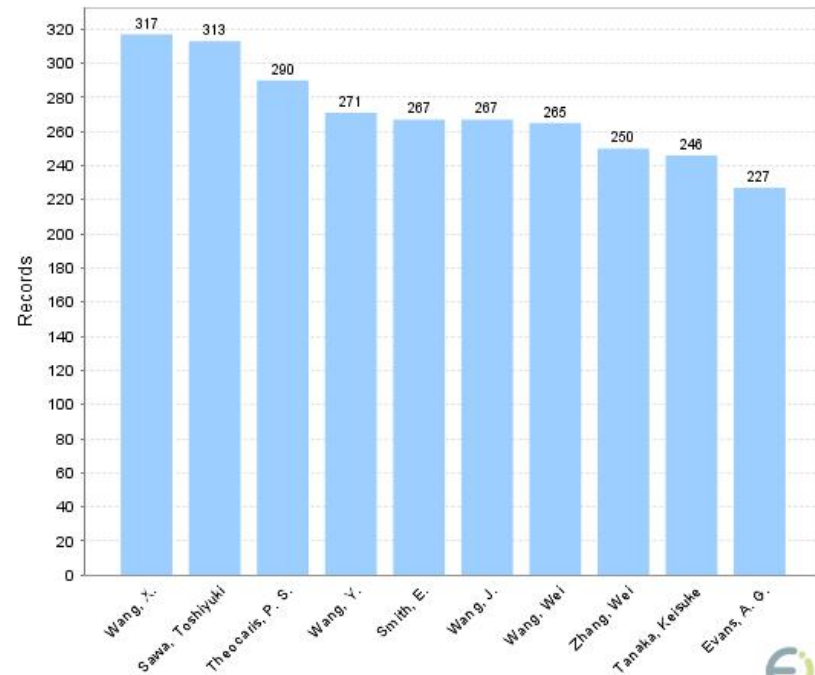


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**Accession number:** 20113014168729

**Title:** Discuss on green building materials and related issues

**Authors:** Wang, Shijin<sup>1</sup>

**Author affiliation:** <sup>1</sup> Department of Engineering Management, Shandong University of Technology, Zibo 255049, China

**Corresponding author:** Wang, S. ([civilwang@163.com](mailto:civilwang@163.com))

**Source title:** Advanced Materials Research

**Abbreviated source title:** Adv. Mater. Res.

**Volume:** 280

**Monograph title:** Green Building Materials and Energy-Saving Construction, GBMEC 2011

**Issue date:** 2011

**Publication year:** 2011

**Pages:** 165-170

**Language:** English

**ISSN:** [10226680](#)

**ISBN-13:** [9783037851890](#)

**Document type:** Conference article (CA)

**Conference name:** 2011 International Conference of Green Building Materials and Energy-Saving Construction, GBMEC 2011

**Conference date:** August 6, 2011 - August 6, 2011

**Conference location:** Harbin, China

**Conference code:** [85609](#)

**Sponsor:** Information Technology and Industrial Engineering Research Center, Harbin Institute of Technology

**Publisher:** Trans Tech Publications, P.O. Box 1254, Clausthal-Zellerfeld, D-38670, Germany

**Abstract:** Green building materials as an important factor plays important role in the promote sustainable development. However, at present a unified understanding on the green building materials in China have not been formed, the evaluation system of green building materials is not perfect. In this paper, the concept and features of green building materials are discussed deeply, and life cycle model is used to evaluate the green building materials. The status and future trend of green building materials are discussed too. © (2011) Trans Tech Publications, Switzerland.

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21. ☐ **Stress wave emission and cavitation bubble dynamics and optical breakdown in a tissue phantom**

Brujan, Emil-Alexandru<sup>1, 2</sup> | Vogel, Alfred<sup>1</sup>

Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006  
14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

Author affiliations:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnikestr. 1, 23560 Lübeck, Germany

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independenței 110, 7600130 Iasi, Romania

Abstract:

**Stress** wave emission and cavitation bubble dynamics after optical breakdown in a tissue phantom with Nd: YAG laser pulses of 6 ns duration were investigated numerically to obtain a better understanding of the physical mechanisms involved as two orders of magnitude from the static values. The discovery of optical breakdown in tissue-like media is of great importance for the assessment of laser surgery because biological tissues are much more susceptible to compressive **stress**. © 2006 Cambridge University Press.(79 refs)

Main heading: **Acoustic emissions**

Controlled terms: **Bubbles (in fluids)** - **Cavitation** - **Compressive stress** - **Mechanical properties** - **Semiconductor lasers** - **Tensile stress**

Uncontrolled terms: **Cavitation bubble dynamics** - **Compressive stress**

Classification Code: 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 751.2 Acoustic Properties of Materials - 93.121 Physical Properties of Gases, Liquids and Solids

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21. ☐ **Stress wave emission and cavitation bubble dynamics by optical breakdown in a tissue phantom**

Brujan, Emil-Alexandru<sup>1, 2</sup> ; Vogel, Alfred<sup>1</sup> 

Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006; ISSN: 0022-14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

**Author affiliations:**

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 313, 0600 Romania

**Abstract:**

**Stress** wave emission and cavitation bubble dynamics after optical breakdown in a phantom with Nd: YAG laser pulses of 6 ns duration were investigated both experimentally and numerically to obtain a better understanding of the physical mechanisms involved. The results show that the dynamic pressure generated by the optical breakdown is two orders of magnitude from the static values. The discovery of a tensile **stress** breakdown in tissue-like media is of great importance for the assessment of collagen laser surgery because biological tissues are much more susceptible to tensile **stress** than compressive **stress**. © 2006 Cambridge University Press.(79 refs)

**Main heading:** Acoustic emissions

**Controlled terms:** Bubbles (in fluids) - Cavitation - Compressive **stress** - Compressive **stress** - Mechanical properties - Semiconductor lasers - Tensile **stress**

**Uncontrolled terms:** Cavitation bubble dynamics - Compressive **stress** wave - Compressive **stress**

**Classification Code:** 631.1.1 Liquid Dynamics - 723.5 Computer Applications - 723.5 Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 Physical Properties of Liquids and Solids

**Treatment:** Theoretical (THR)

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From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids

Divoux, Thibaut<sup>1</sup>; Barentin, Catherine<sup>2</sup>; Manneville, Sébastien<sup>1</sup> Source: *Soft Matter*, v 7, n 18, p 8409-8418, September 21, 2011; ISSN: 1744683X, E-ISSN: 17446848; DOI: 10.1039/c1sm05607g; Publisher: Royal Society of Chemistry

#### Author affiliation:

1 Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France

2 Laboratoire de Physique de la Matière Condensée et Nanostructures, Université de Lyon, Université Claude Bernard Lyon I, 43 Boulevard du 11 Novembre 1918, 69622, Villeurbanne cedex, France

**Abstract:** Stress-induced fluidization of a simple yield stress fluid, namely a carbopol microgel, is addressed through extensive rheological measurements coupled to simultaneous temporally and spatially resolved velocimetry. These combined measurements allow us to rule out any bulk fracture-like scenario during the fluidization process such as that suggested in [Caton et al., *Rheol Acta*, 2008, 47, 601-607]. On the contrary, we observe that the transient regime from solid-like to liquid-like behaviour under a constant shear stress  $\sigma$  successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration  $\tau_f$  of this fluidization process scales as  $\tau_f \propto 1/(\sigma - \sigma_c)^\beta$ , where  $\sigma_c$  stands for the yield stress of the microgel, and  $\beta$  is an exponent which only depends on the microgel properties and not on the gap width or on the boundary conditions. Together with recent experiments under imposed shear rate [Divoux et al., *Phys. Rev. Lett.*, 2010, 104, 208301], this scaling law suggests a route to rationalize the phenomenological Herschel-Bulkley (HB) power-law classically used to describe the steady-state rheology of simple yield stress fluids. In particular, we show that the steady-state HB exponent appears as the ratio of the two fluidization exponents extracted separately from the transient fluidization processes respectively under controlled shear rate and under controlled shear stress. © 2011 The Royal Society of Chemistry. (49 refs.)

**Main Heading:** Yield stress

**Controlled terms:** Creep - Fluidization - Fluids - Gels - Process control - Rheology - Shear deformation - Shear stress

**Uncontrolled terms:** Carbopol - Constant shear - Creep deformations - Gap widths - Herschel-Bulkley - Microgel - Power-law - Rheological measurements - Shear banding - Spatially resolved - Steady state - Stress-induced - Transient regime - Wall slip - Yield stress fluids

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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.

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(2012) *Soft Matter*

Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.

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Brujan, Emil-Alexandru<sup>1, 2</sup> ; Vogel, Alfred<sup>1</sup>

Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006; ISSN 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

Author affiliations:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 31, Romania

Abstract:

**Stress** wave emission and cavitation bubble dynamics after optical breakdown in a tissue phantom with Nd: YAG laser pulses of 6 ns duration were investigated both numerically and experimentally to obtain a better understanding of the physical mechanisms involved. The discovery of a tensile stress wave in tissue-like media is of great importance for the assessment of laser surgery because biological tissues are much more susceptible to tensile stress than compressive stress. © 2006 Cambridge University Press.(79 refs)

Main heading: **Acoustic emissions**

Controlled terms: **Bubbles (in fluids)** - **Cavitation** - **Compressive stress** - **Mechanical properties** - **Semiconductor lasers** - **Tensile stress**

Uncontrolled terms: **Cavitation bubble dynamics** - **Compressive stress**

Classification Code: **631.1.1** Liquid Dynamics - **723.5** Computer Applications - **751.2** Acoustic Properties of Materials - **931.2** Liquids and Solids

Treatment: Theoretical (THR)

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Source: *Journal of Fluid Mechanics*, v 558, p 281-308, July 10, 2006; ISSN: 14697645; DOI: 10.1017/S0022112006000115; Publisher: Cambridge University Press

Author affiliations:

<sup>1</sup> Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany

<sup>2</sup> Department of Hydraulics, University Politehnica, Spl. Independentei 313, 600012 Bucharest, Romania

Abstract:

**Stress** wave emission and cavitation bubble dynamics phantom with Nd: YAG laser pulses of 6 ns duration were numerically obtained to obtain a better understanding of the physics as two orders of magnitude from the static values. The breakdown in tissue-like media is of great importance for laser surgery because biological tissues are much more compressive **stress**. © 2006 Cambridge University Press

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Cavitation - Mechanical properties - Semiconductor lasers - Tensile strength

Uncontrolled terms: Cavitation bubble dynamics - Cavitation - Cavitation

Classification Code: 631.1.1 Liquid Dynamics - 723.5 Semiconductor Lasers - 751.2 Acoustic Properties of Liquids and Solids

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**Stress**-induced fluidization of a simple yield **stress** fluid, namely a carbopol microgel, is addressed through extensive rheological measurements coupled to simultaneous temporally and spatially resolved velocimetry. These combined measurements allow us to rule out any bulk fracture-like scenario during the fluidization process such as that suggested in [Caton et al., Rheol. Acta, 2008, 47, 601-607]. On the contrary, we observe that the transient regime from solid-like to liquid-like behaviour under a constant shear **stress**  $\sigma$  successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration  $t_f$  of this fluidization process scales as  $t_f \propto 1/(\sigma - \sigma_c)^\beta$ , where  $\sigma_c$  stands for the yield **stress** of the microgel, and  $\beta$  is an exponent which only depends on the microgel properties and not on the gap width or on the boundary conditions. Together with recent experiments under imposed shear rate [Divoux et al., Phys. Rev. Lett., 2010, 104, 208301], this scaling law suggests a route to rationalize the phenomenological Herschel-Bulkley (HB) power-law classically used to describe the steady-state rheology of simple yield **stress** fluids. In particular, we show that the steady-state HB exponent appears as the ratio of the two fluidization exponents extracted separately from the transient fluidization processes respectively under

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r, M.; Ballauff, M.; Voigtmann, Th.  
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|  climate changes |  <a href="#">View Folder</a> |  <a href="#">Rename Folder</a> |  <a href="#">Delete Folder</a> |



# My Saved Search & Alerts

Search | Selected records | **Settings** | Tags & Groups | Bulletins

## View/Update Saved Searches & Alerts

### My Saved Searches

| No.                          | Type  | Search                | Auto-stem | Sort      | Results | Year(s)   | Database  | Date Saved | Add Email Alert          |
|------------------------------|-------|-----------------------|-----------|-----------|---------|-----------|-----------|------------|--------------------------|
| 1.<br><a href="#">Delete</a> | Quick | ((PET) WN All fields) | On        | Relevance | 37,426  | 1884-2012 | Compendex | 08/08/2012 | <input type="checkbox"/> |

[Delete All](#)

[Save Email Alerts](#)

### My Email Alerts

| No.                          | Type  | Search                    | Auto-stem | Sort      | Results | Year(s)   | Database  | Date Saved | Clear Email Alert        | Add Recipients     |
|------------------------------|-------|---------------------------|-----------|-----------|---------|-----------|-----------|------------|--------------------------|--------------------|
| 1.<br><a href="#">Delete</a> | Quick | ((tatinic) WN All fields) | On        | Relevance | 6       | 1884-2012 | Compendex | 08/08/2012 | <input type="checkbox"/> | <a href="#">Cc</a> |

[Delete All](#)

[Clear Email Alerts](#)



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