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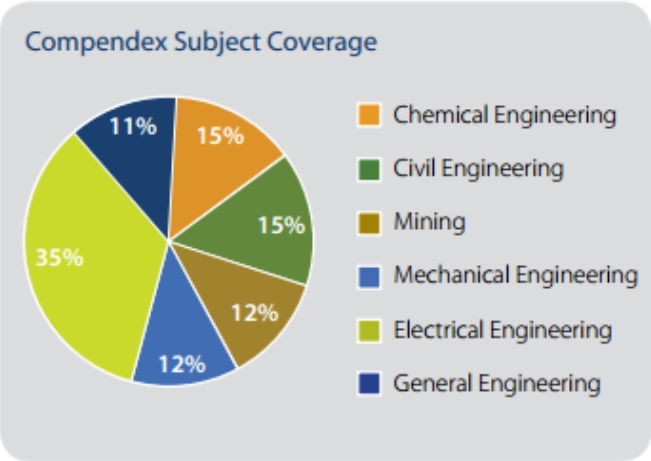

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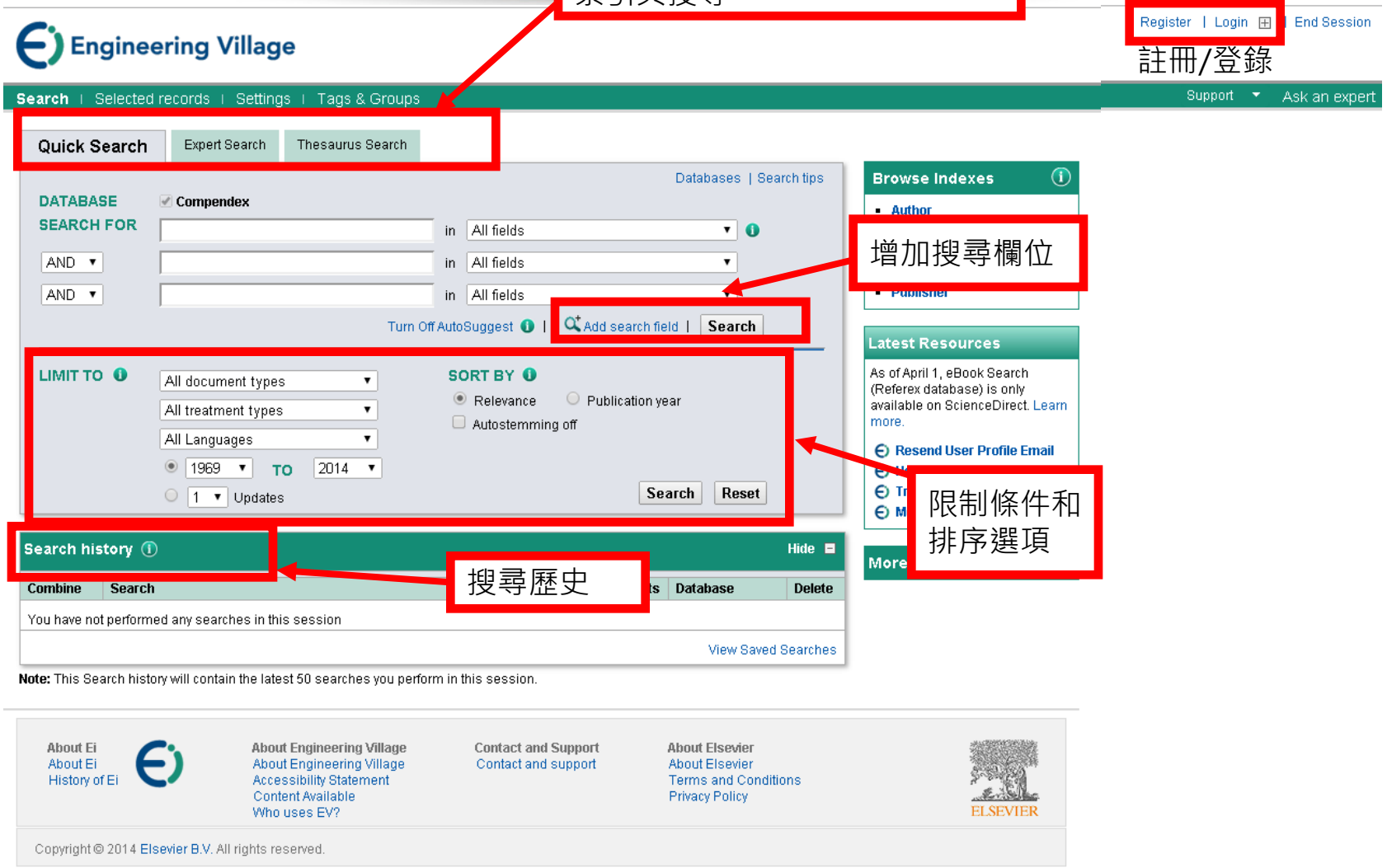

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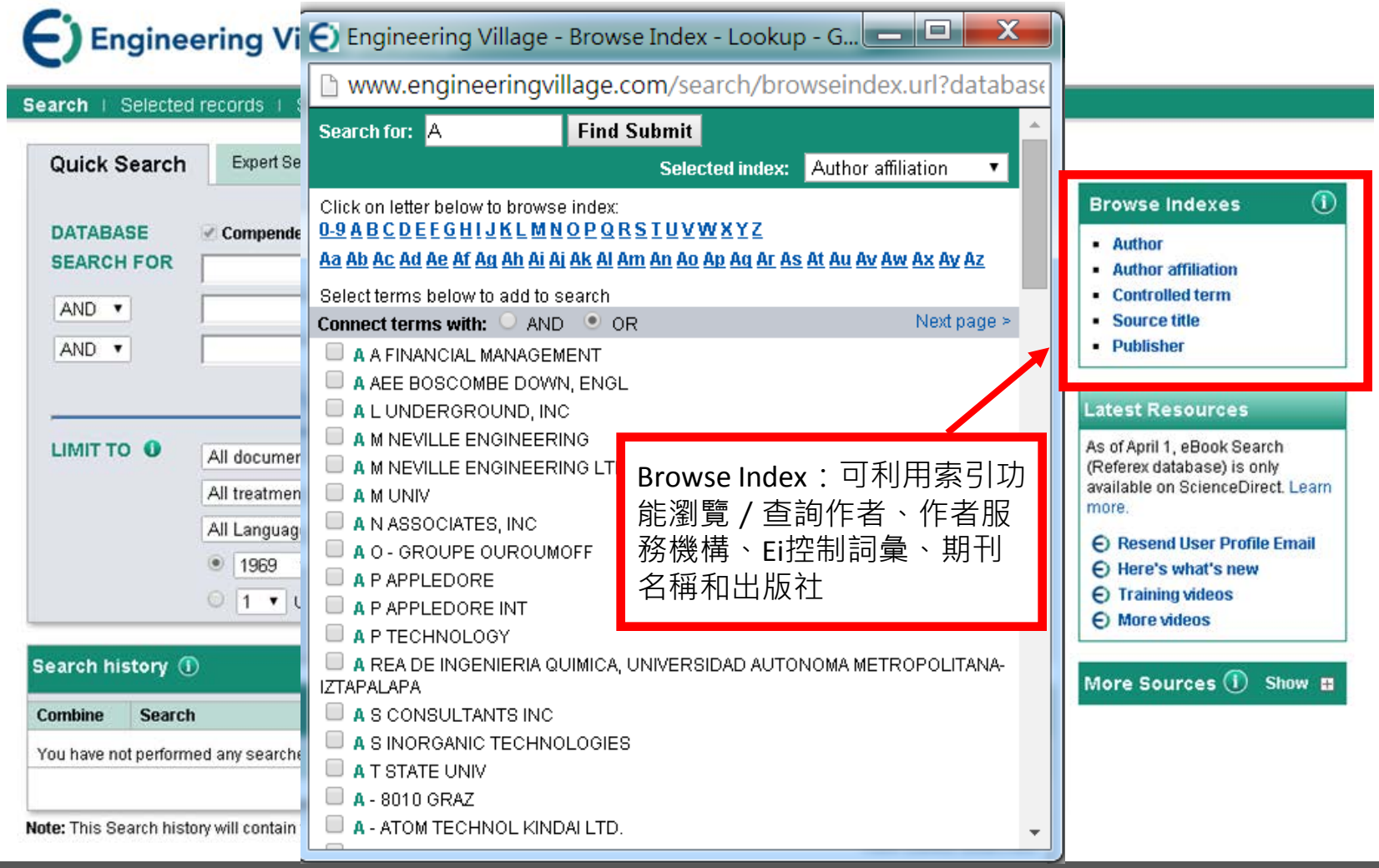

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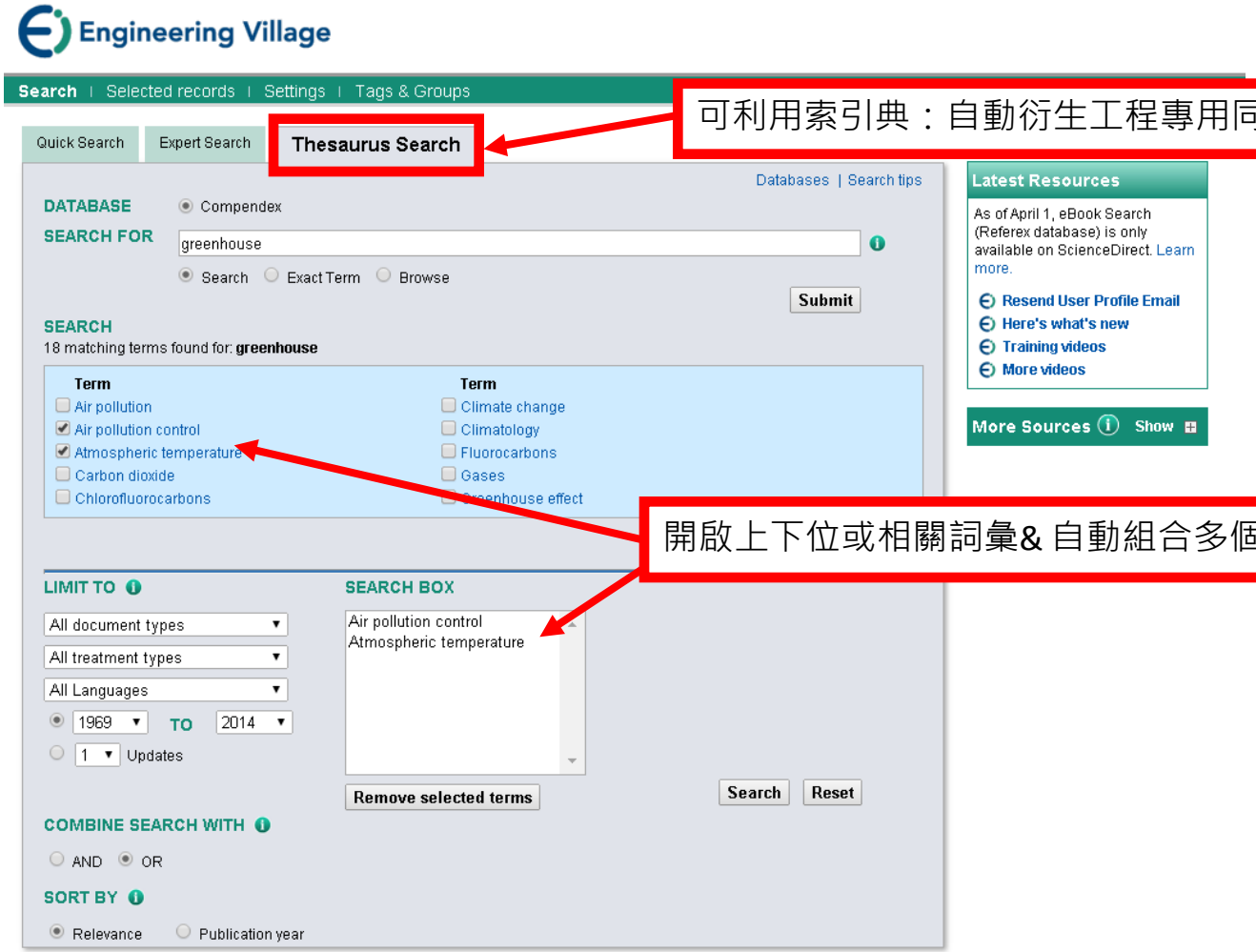

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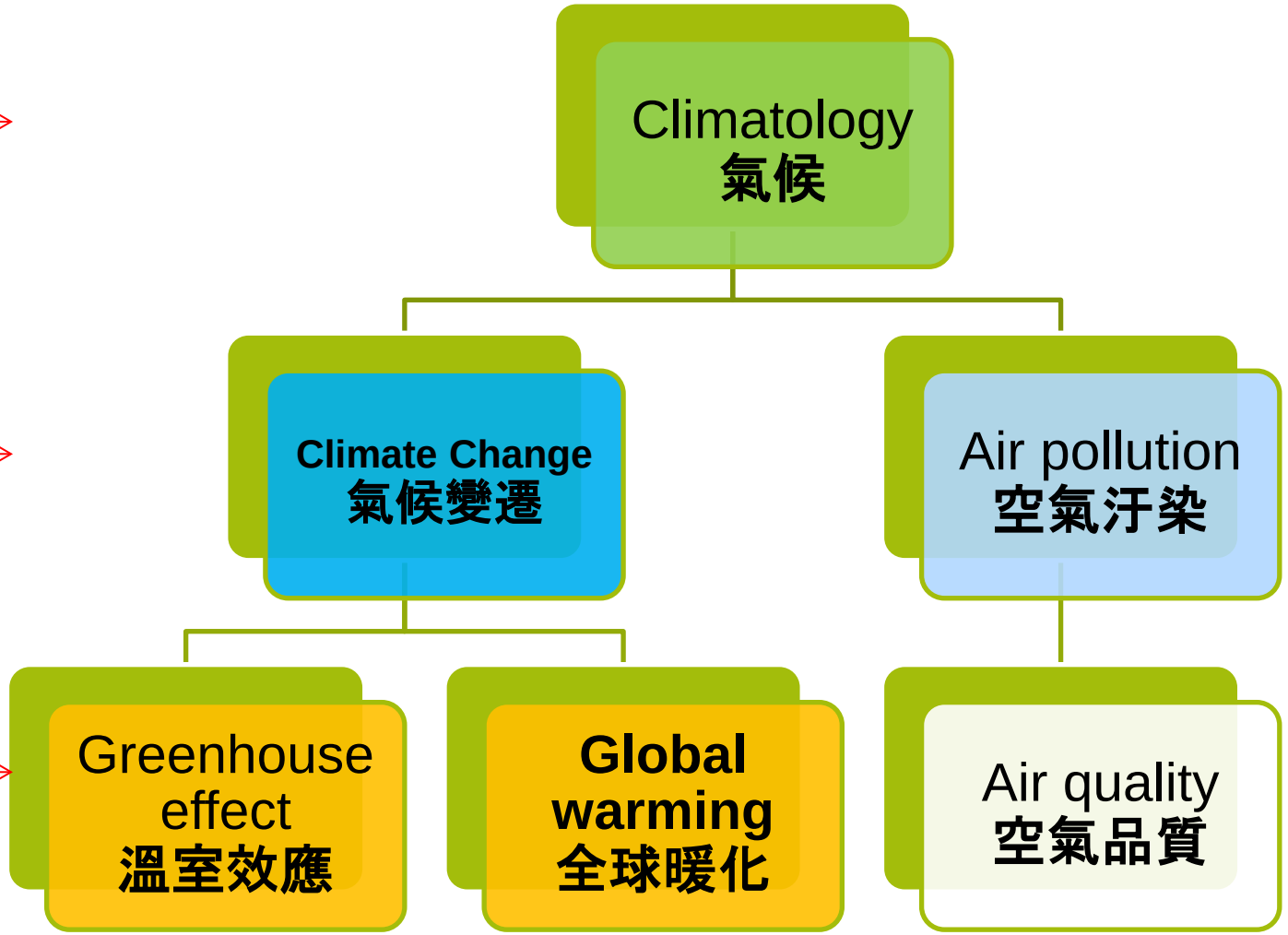

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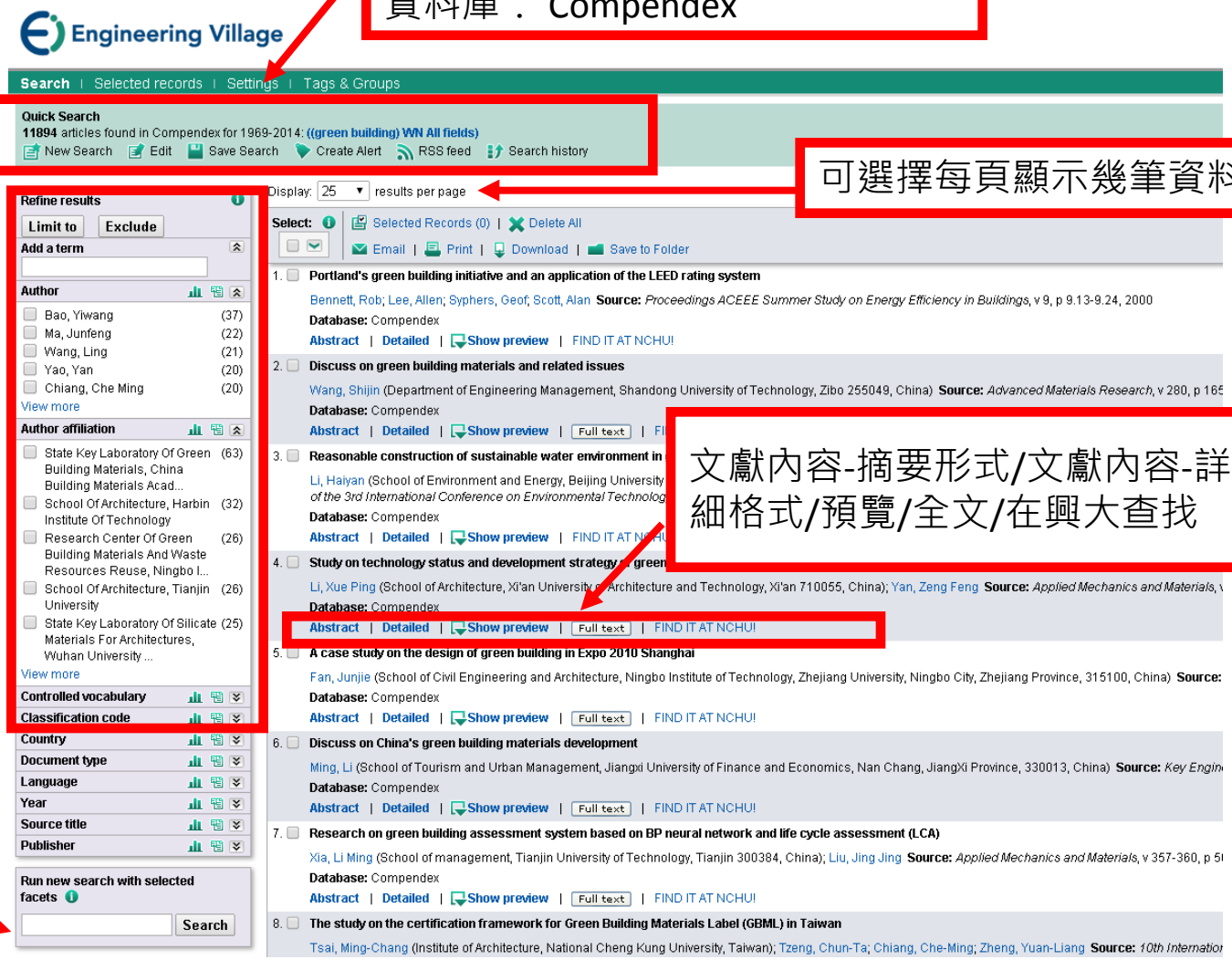

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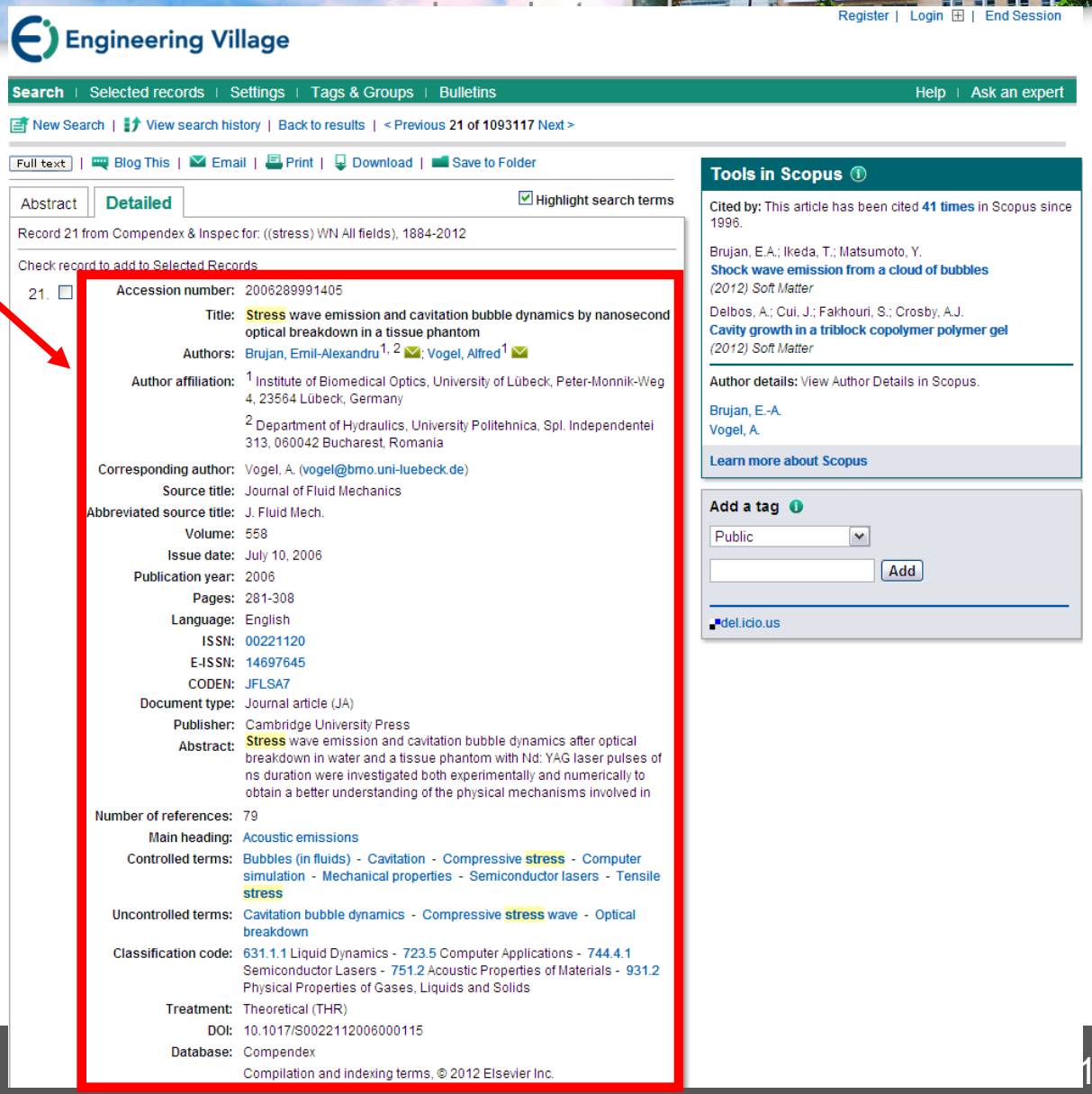

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21.

Accession number: 2006289991405

Title: Stress wave emission and cavitation bubble dynamics by nanosecond optical breakdown in a tissue phantom

Authors: Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]

Author affiliation: [1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 23564 Lübeck, Germany

[2] 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

Treatment: Theoretical (THR)

DOI: 10.1017/S0022112006000115

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Brujan, E.A.; Ikeda, T.; Matsumoto, Y.
Shock wave emission from a cloud of bubbles
(2012) Soft Matter

Delbos, A.; Cui, J.; Fakhouri, S.; Crosby, A.J.
Cavity growth in a triblock copolymer polymer gel
(2012) Soft Matter

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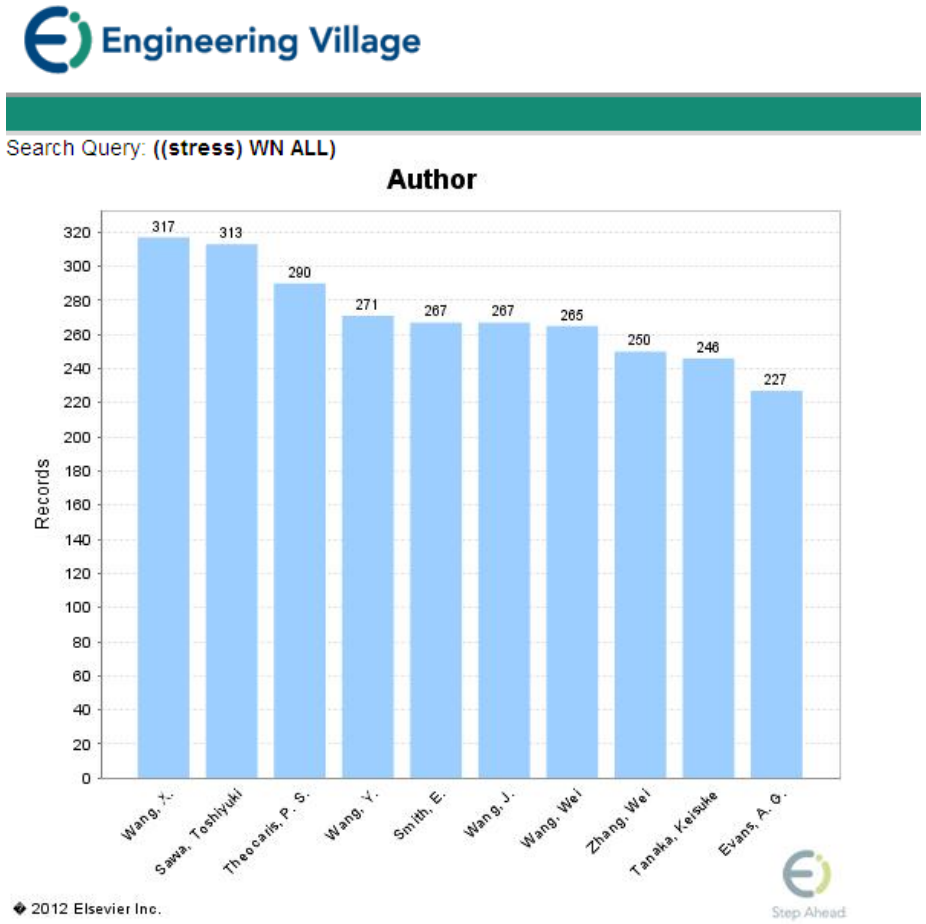

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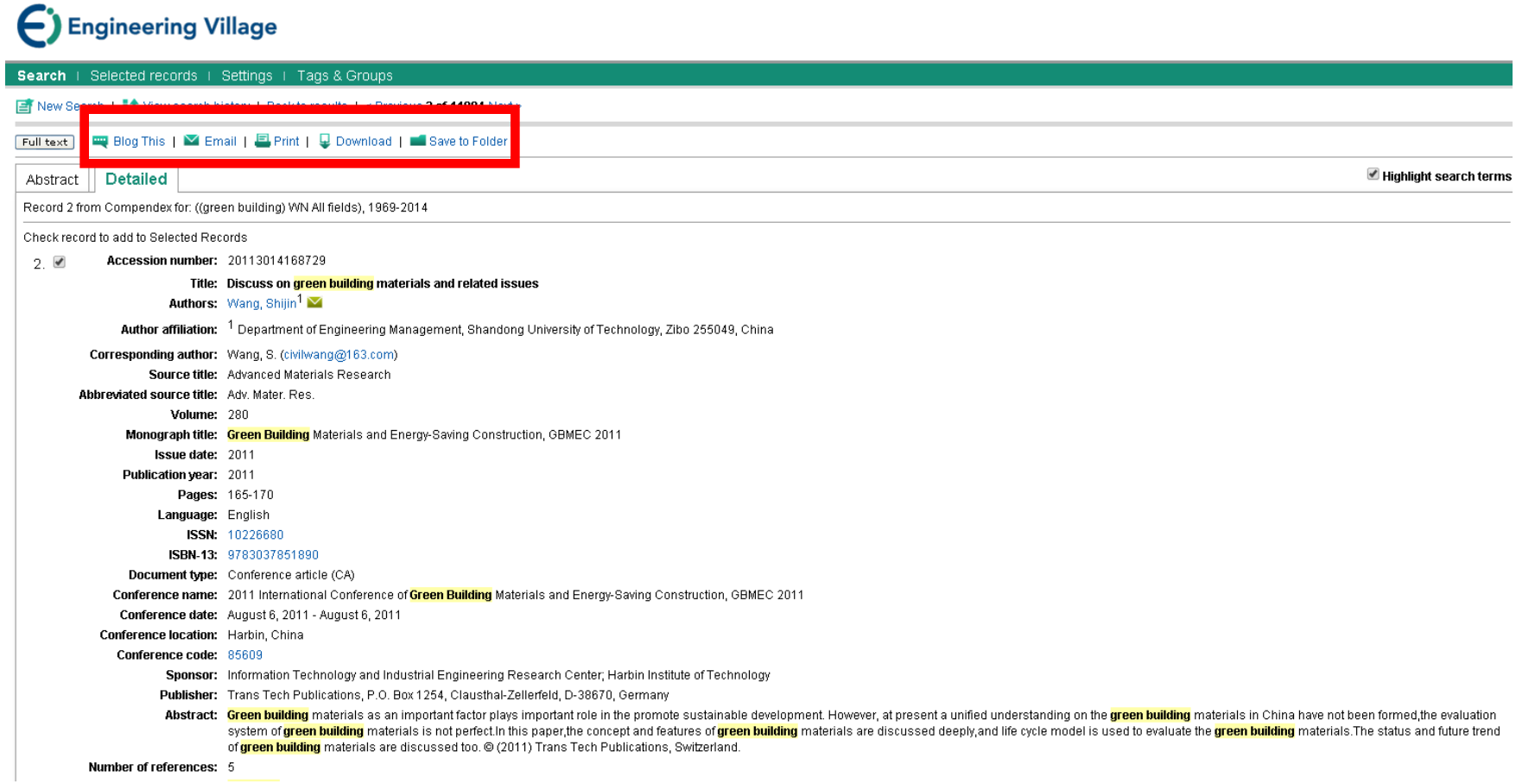
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Record 2 from Compendex for: ((green building) WN All fields), 1969-2014
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2.
Accession number: 20113014168729
Title: Discuss on green building materials and related issues
Authors: Wang, Shijin[1]
Author affiliation: [1] Department of Engineering Management, Shandong University of Technology, Zibo 255049, China
Corresponding author: Wang, S. (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.
Number of references: 5

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Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]

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

Author affiliations:

[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-

[2] Department of Hydraulics, University Politehnica, Spl. Independen Romania

Abstract:

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

Main heading: Acoustic emissions

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

Uncontrolled terms: Cavitation bubble dynamics - Compressive st

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Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]

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

Author affiliations:

[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4, 2356

[2] Department of Hydraulics, University Politehnica, Spl. Independentei 313, 0600 Romania

Abstract:

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

Main heading: Acoustic emissions

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

Uncontrolled terms: Cavitation bubble dynamics - Compressive stress wave -

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

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

Divoux, Thibaut[1]; Barentin, Catherine[2]; Manneville, Sébastien[1] **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 σ successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration τf of this fluidization process scales as $\tau_f \propto 1/(\sigma - \sigma_c)^{\beta}$, where σc stands for the yield stress of the microgel, and β 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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Shock wave emission from a cloud of bubbles
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Cavity growth in a triblock copolymer polymer gel
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Brujan, Emil-Alexandru[1, 2]; Vogel, Alfred[1]

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

Author affiliations:

[1] Institute of Biomedical Optics, University of Lübeck, Peter-Monnik-Weg 4

[2] Department of Hydraulics, University Politehnica, Spl. Independentei 31 Romania

Abstract:

Stress wave emission and cavitation bubble dynamics after optical breakd phantom with Nd: YAG laser pulses of 6 ns duration were investigated bot numerically to obtain a better understanding of the physical mechanisms as two orders of magnitude from the static values. The discovery of a tens breakdown in tissue-like media is of great importance for the assessmen laser surgery because biological tissues are much more susceptible to te 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 Applicat Semiconductor Lasers - 751.2 Acoustic Properties of Materials - 931.2 P Liquids and Solids

Treatment: Theoretical (THR)

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[2] Department of Hydraulics, University Politehnica, Spl. Romania

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

Main heading: Acoustic emissions

Controlled terms: Bubbles (in fluids) - Cavitation - Co Mechanical properties - Semiconductor lasers - Tens

Uncontrolled terms: Cavitation bubble dynamics - Co

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

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Brujan, E.-A.

Vogel, A.

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1. Remove **A method for generating structurally aligned grids for semiconductor device simulation**
Heitzinger, Clemens (IEEE); Sheikholeslami, Alireza; Park, Jong Mun; Selberherr, Siegfried
Source: *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, v 24, n 10, p 1485-1491, October 2005
Database: Compendex
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2. Remove **From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids**
Divoux, Thibaut (Université de Lyon, Laboratoire de Physique, École Normale Supérieure de Lyon, 46 Allée d'Italie 69364, Lyon cedex 07, France); Barentin Catherine; Manneville, Sébastien
Source: *Soft Matter*, v 7, n 18, p 8409-8418, September 21, 2011
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[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 σ successively involves creep deformation, total wall slip, and shear banding before a homogeneous steady state is reached. Interestingly, the total duration τf of this fluidization process scales as $\tau_f \propto 1/(\sigma - \sigma_c)^{\beta}$, where σc stands for the yield stress of the microgel, and β 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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Divoux, T.; Tamarii, D.; Barentin, C.; Teitel, S.; Manneville, S.
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…r, M.; Ballauff, M.; Voigtmann, Th.
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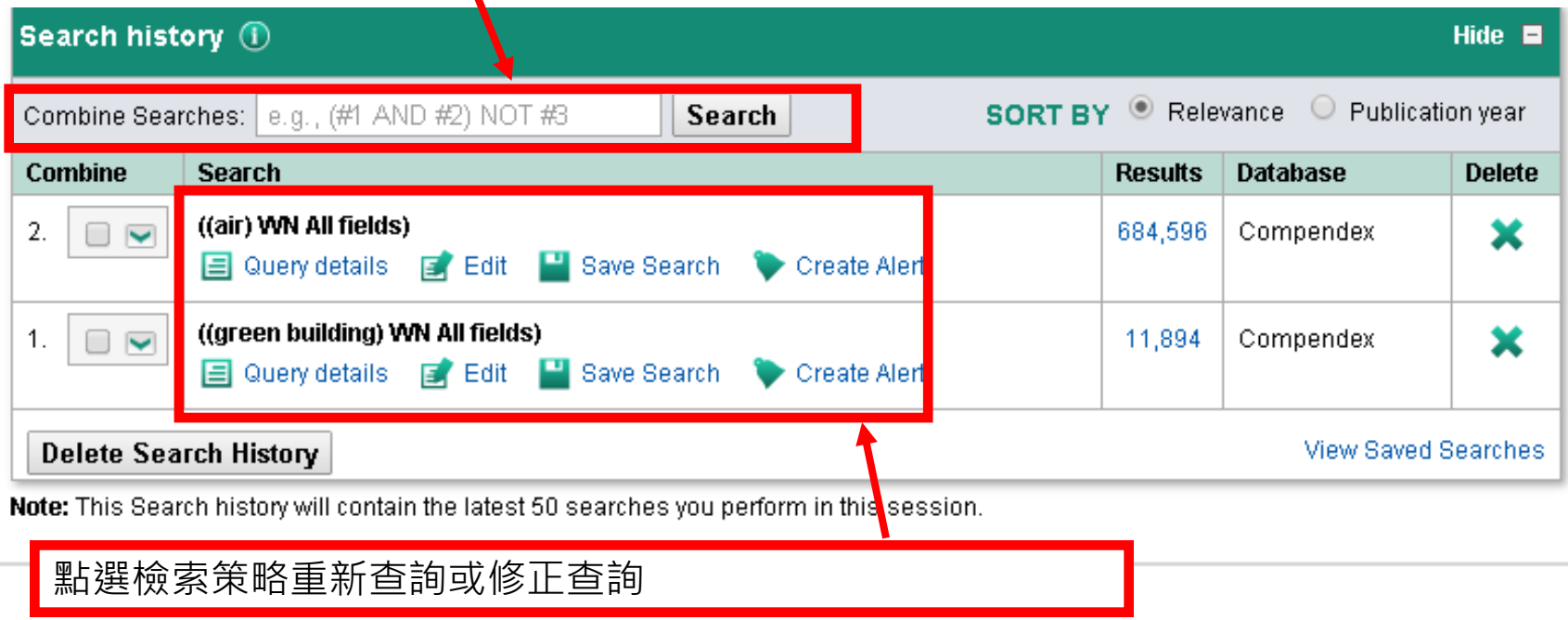

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