

**Liste complète Travaux
Denis CHAUMONT
(au 06-2016)**

PUBLICATIONS

PROCEEDING

BREVETS ET ENVELOPPES SOLEAU

CHAPITRE DE LIVRE

CO-EDITEUR special issue

DOCTORAT

HDR

PUBLICATIONS

- 1 - D. CHAUMONT, A. CRAIEVICH, J. ZARZYCKI
"Effect of ultrasound on the formation of ZrO₂ sols and wet gels"
Journal of Non-Crystalline Solids, 147&148, pp 41-46 (1992)

- 2 - D. CHAUMONT, A. CRAIEVICH, J. ZARZYCKI
"A SAXS study of the formation of ZrO₂ sols and gels"
Journal of Non-Crystalline Solids, 147&148, pp 127-134 (1992)

- 3 - F. GABORIAUD, D. CHAUMONT, A. NONAT, B. HANQUET, A. CRAIEVICH
« Study of the influence of alkaline ions (Li, Na and K) on the structure of the silicate entities in silico alkaline sol and on the formation of the silico-calco-alkaline gel »
Journal of Sol-Gel Science and Technology, 13, pp 353-358 (1998)

- 4 - D. CHAUMONT, F. GABORIAUD, A. NONAT, A. CRAIEVICH
« The structural properties of soda-silicate sols and of the lime-soda-silicate gel formation »
Journal of Non-Crystalline Solids, 247, pp 254-261 (1999)

- 5 - F. GABORIAUD, A. NONAT, D. CHAUMONT, B. HANQUET, A. CRAIEVICH
« ²⁹Si NMR and SAXS studies of the effect of alkaline ions (Li⁺, Na⁺ and K⁺) in silico-alkaline sols »
The Journal of Physical Chemistry B, 103, pp 2091-2099 (1999)

- 6 - F. GABORIAUD, A. NONAT, D. CHAUMONT, A. CRAIEVICH
« Aggregation and gel formation in basic silico-calco-alkaline studied : a SAXS, SANS and ELS study »
The Journal of Physical Chemistry B, 103, pp 5775-5781 (1999)

- 7 - F. GABORIAUD, A. NONAT, D. CHAUMONT, A. CRAIEVICH
« Fractal Structure of Basic Silica Gels with Low Ca Content »
Journal of Applied Crystallography, 33, pp 597-599 (2000)

- 8 - K. BELLON, D. CHAUMONT, D. STUERGA
« Flash synthesis of zirconia nanoparticles by microwave forced hydrolysis »
Journal of Material Research, 16, 9, pp 2619-2622, (2001)

- 9 - E. MICHEL, D. STUERGA, D. CHAUMONT.
« Microwave flash synthesis of tin dioxide sols from tin chloride aqueous solutions »
Journal of Material Science Letters, 20, pp 1593-1595, (2001).

- 10 - F. GABORIAUD, A. NONAT, D. CHAUMONT, A. CRAIEVICH
« Aggregation processes and formation of silico-calco-alkaline gels under high ionic strength »

Journal of Colloid Interface Science, 253, pp 140-149, (2002).

11 - E. MICHEL, D. CHAUMONT, D. STUERGA

« SnO₂ thin films prepared by dip-coating from microwave synthesized colloidal suspensions »

Journal of Colloid and Interface Science, 257, 2, pp 258-262, (2003).

12 - S. SEN, S. MAHANTY, S. ROY, O. HEINTZ, S. BOURGEOIS, D. CHAUMONT

« Investigation on sol-gel synthesized Ag-doped TiO₂ cermet thin films »

Thin Solid Films, 474, pp 245-249, (2005).

13 - L. COMBEMALE, G. CABOCHE, D. STUERGA, D. CHAUMONT

« Microwave synthesis of yttria stabilized zirconia »

Materials Research Bulletin, 40, 3, pp 529-536, (2005)

14 - F. GABORIAUD, A. NONAT, D. CHAUMONT, A. CRAIEVICH

« Structural model of gelation process of a sodium silicate sol destabilised by calcium ions : combination of SAXS and rheological measurements »

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15 - E. GRESSEL-MICHEL, D. CHAUMONT, D. STUERGA

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Journal of Colloid and Interface Science, 285, pp 674-679, (2005)

16 - L. COMBEMALE, D. CHAUMONT, G. CABOCHE, D. STUERGA

"Synthèse sous champ micro-onde et caractérisation de chromite de lanthane strontium dopé utilisé comme anode de pile à combustible SOFC"

Les Cahiers de formulation, "Energie et formulation", N°13, Ed. EDP, pp 132-140, (fin 2005)

17 - A.P. RIZZATO, C.V. SANTILLI, S.H. PULCINELLI, D. CHAUMONT, D. STUERGA, V. BRIOIS

"Densification of Mn-doped tin oxide films by conventional heating and microwave treatment"

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18 - F. LOETE, B. VUILLEMIN, R. OLTRA, D. CHAUMONT, E. BOURILLOT

"Application of total internal reflexion fluorescence microscopy for studying pH changes in an occluded electrochemical cell : Development of a waveguide sensor"

Electrochemistry Communications, 8, pp 1016-1020 (2006)

19 - A.M. LAZAR, D. CHAUMONT, C. JOSSE-COURTY, M. MESNIER, Y. LACROUTE, M.E. GOMEZ, G. ZAMBRANO, M. SACIOTTI

"TiO₂ micro/nanostructures growth and characterisation"

Metalurgia International, VolXII, 2, pp 5 (2007)

20 - A.M. LAZAR, D. CHAUMONT

"Researches for nickel nanoparticles obtain and characterisation"

Metalurgia, 3, pp 21 (2007)

21 - A.M. LAZAR, D. CHAUMONT, Y. LACROUTE, M.E. GOMEZ, J.C. CAICEDO, G. ZAMBRANO, M. SACIOTTI.

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22 - C. BOUSQUET-BERTHELIN, D. CHAUMONT, D. STUERGA

« Flash microwave synthesis of trevorite nanoparticles »

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23 - A.M. LAZAR, D. CHAUMONT, M. SACIOTTI

"Cobalt nanoparticles obtaining, characterisation and their utilisation for TiO₂ nanostructures obtained by MOCVD"

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24 - L. HU, D. HACH, D. CHAUMONT, C.H. BRACHAIS, J.P. COUVERCELLE
One step grafting of monomethoxy poly(ethylene glycol) during synthesis of maghemite nanoparticles in aqueous medium

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25 - Ling HU, Diana HACH, Denis CHAUMONT, Claire-Helene BRACHAIS, Jean-Pierre COUVERCELLE, Aurelien PERCHERON

Comparison of various methods of grafting of modified-PEG onto maghemite nanoparticles in aqueous medium including synthesis by microwave refluxing

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26 - A. M. LAZAR, D. CHAUMONT, Y. LACROUTE, I. CIOBANU, M. SACILOTTI

"TiO₂ nanostructures growths by MOCVD on cobalt nanoobjects",

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27 - Lazar, Ana Maria; Ciobanu, Ioan; Chaumont, Denis; Lacroute, Yvon; Chassagnon, Remy; Andronic, Luminita; Sacilotti, Marco

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29 - M. Adnane, T. Sahraoui, A. Abderrahmane, S. Hamzaoui, D. Chaumont

"Elaboration et Caractérisation des matériaux binaires CuxS et Ag₂S élaborés par la technique SILAR pour couche tampon de cellule solaire à base de couche absorbante CIS »

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30 - A. M. LAZAR, I. CIOBANU, D. CHAUMONT, Y. LACROUTE, R. CHASSAGNON, L. ANDRONIC, M. SACILOTTI

"The use of TiO₂ nanostructures on the photocatalytic dégradation of méthylène blue",

Metalurgia International, Vol. XV, N° 2, pp. 26-29 (2010)

31 - M. Lazar, D. Chaumont, Y. Lacroute, R. Chassagnon, I. Ciobanu, M. Sacilotti

"Growth of three dimensions TiO₂ nanomembranes"

Science Of Advanced Materials, Vol.3, pp 1-5 (2011)

32 - Veronika A. Zinovyeva, Mikhail A. Vorotyntsev, Igor Bezverkhyy, Denis Chaumont, Jean-Cyrille Hierso

"Highly-Dispersed Palladium-Polypyrrole Nanocomposites Pd@PPy: "in-Water" Synthesis and Application for Catalytic Arylation of Heteroaromatics by Direct C-H Bond Activation"

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33 - POP, Mihai Alin; CHAUMONT, Denis; CONSTANTINESCU, Alexandru

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34 - Ling Hu, Denis Chaumont, Claire-Helene Brachais, Aurelien Percheron

"Microwave-assisted one-step hydrothermal synthesis of pure iron oxide nanoparticles: magnetite, maghemite and hematite",

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35 - M. Graczyk-Zajac, A. M. Lazar, D. Chaumont, M. Sacilotti, R. Riedel

« Electrochemical investigation of lithium intercalation in MOCVD prepared nanostructured anatase-rutile TiO₂ »

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36 – Radu Francisc COTERLICI, Denis CHAUMONT, Marco SACILOTTI, Ana VETELEANU, Virgil GEAMAN

“Growth of TiO₂ nanostructures on copper sheets with M.O.C.V.D. technique

Metalurgia International, Vol.XVI, Special issue N° 1, pp 33-36 (2011)

37 –Ioan CIOBANU, Ana-Maria LAZĂR, Denis CHAUMONT, Yvon LACROUTE, Ana VEȚELEANU, Luminița ANDRONIC

“Researches about the photocatalytic effect of TiO₂ nanostructures synthetised on silicon substrats and Co microparticles”

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« Microwave synthesis of core-shell structured biocompatible magnetic nanohybrids in aqueous medium », in « Microwave Heating », Dr. Usha Chandra (Ed.), (2011) ISBN: 978-953-307-573-0, InTech, DOI: 10.5772/23381.

Available from: <http://www.intechopen.com/books/microwave-heating/microwave-synthesis-of-core-shell-structured-biocompatible-magnetic-nanohybrids-in-aqueous-medium>

39 – ChTolentino, Y Lacroute, D Chaumont, M Sacilotti, C De Araujo, A S L Gomes

“Microchip Random Laser based on a disordered TiO₂-nanomembranes arrangement”

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40 - Marco Sacilotti, Denis Chaumont, Claudia Brainer Mota, Thiago Vasconcelos, Frederico Dias Nunes, Marcelo Francisco Pompelli, Sergio Luiz Morelhaio, Anderson S. L. Gomes

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42 – Siham BENGHABRIT, Denis CHAUMONT, Mohamed ADNANE, Saad HAMZAOUI

“CdS films deposited by Chemical Bath Deposition for solar cells application”

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43 – Andreea CRISBASAN, Denis CHAUMONT, Aurel CRISAN

“The influence of catalysts on the growth of TiO₂ nanostructures by MOCVD technique”

Metallurgy and New Materials Researches, Vol XXI, N°4, pp 23-30 (2013)

44 – Djelloul Abdelkader, M. Adnane, S. Hamzaoui and D. Chaumont

“Morphology, Structural and Optical Study of Nanocrystalline ZnS Thin Films Prepared by CBD and SILAR Methods”

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45 - COTERLICI, Radu Francisc; CHAUMONT, Denis; SACILOTTI, Marco; VETELEANU, Ana; GEAMAN, Virgil
“GROWTH OF TiO₂ NANOSTRUCTURES ON COPPER SHEETS WITH M.O.C.V.D. TECHNIQUE”

Metalurgia International; 2013 Special Issue Nr. 5, Vol. 18, p33 (2013)

46 – Luís Cunha, Denis Chaumont and Aldo Craievich

"Nanostructured Materials: Formation, Characterization, and Properties—Latest Advances in 1D, 2D, and 3D Nanostructures",

Advances in Materials Science and Engineering, Volume 2014 (2014),

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47 - Chewki Zegadi, Khalil Abdelkebir, Denis Chaumont, Mohamed Adnane, Saad Hamzaoui

"Influence of Sn Low Doping on the Morphological, Structural and Optical Properties of ZnO Films Deposited by Sol Gel Dip-Coating"

Advances in Materials Physics and Chemistry, 2014, 4, 93-104

Published Online May 2014 in SciRes. <http://www.scirp.org/journal/ampc> ;

<http://dx.doi.org/10.4236/ampc.2014.45012>

48 - K. Nouneh, T. Ajjammouri, Z. Laghfour, A. Maaroufi, M. Abd-Lefdil, D. Chaumont, Z. Sekkat

"Structural and spectral properties of ZnO nanorods by wet chemical method for hybrid solar cells applications"

Materials Letters, 139, PP26-30 (2015)

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49 – C. Zegadi, A. Abderrahmane, A. Djelloul, S. Hamzaoui, M. Adnane, D. Chaumont, K. Abdelkebir,

"Effects on structural and electro-optical properties on iron incorporation to p-zinc oxide (ZnO) thin films deposited by dip-coating process"

International Review of Physics (I.RE.PHY.), Vol.9, N.2, April 2015

50 - A. Crisbasan, D. Chaumont, M. Sacilotti, A. Crisan, A.M. Lazar, I. Ciobanu, Y. Lacroute, R. Chassagnon
« Study of TiO₂ nanomembranes obtained by an induction heated MOCVD reactor »

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PROCEEDING

P1 - "Flash synthesis of titanium dioxide colloids", E. MICHEL, T. CAILLOT, D. CHAUMONT, D. STUERGA; of the
IIIrd World Congress on Microwave and Radiofrequency Applications, 22-26 Septembre 2002, Sydney, Australie, D.C. Folz, J. Booske, D.E. Clark, J.F. Gerling eds.

P2 - "Microwave assisted syntheses of solvent-based colloidal sols of tailored ceria nanoparticles"

Olivier J.C. Poncelet, Jouhannaud J. and Chaumont D.

MRS Proceedings / Volume 1170 / 2009.

P3 - ChTolentino, Y Lacroute, D Chaumont, M Sacilotti, C De Araujo, A S L Gomes

"Random Laser based on TiO₂-nanomembranes"

Conference on lasers and electro-optics (CLEO), 06-11 mai 2012, San Jose, USA

BREVETS ET ENVELOPPES SOLEAU

1 - Applications du mécanisme de séparations des charges dans des matériaux: Utilisation d'interface du type II et son mécanisme.

Auteurs : Marco Sacilotti, Denis Chaumont, Yvon Lacroute. Université de Bourgogne.

INPI-France, Enveloppe Soleau n° 351911 (25/05/09)

2 - Nouvelle approche et nouveaux procédés de fonctionnalisation de nanoparticules d'oxydes métalliques. Intérêt de l'utilisation du chauffage micro-onde.

Auteurs : Ling HU, Denis CHAUMONT, Claire-Hélène BRACHAIS, Aurélien PERCHERON

INPI-France, Enveloppe Soleau n° 413610 (08/04/11)

3 – Modélisation, conception et réalisation d’une boucle de synthèse en continu, sous pression par chauffage micro-ondes de suspensions colloïdales de nanoparticules métalliques, oxydes, organiques et hybrides

Denis Chaumont, Khalil Abdelkebir, François Silva

INPI-France, Enveloppe Soleau n° 490279 (08/10/13)

4 - Gallium élémentaire et oxydes de gallium comme agents anti-cancer, anti –tumeur, anti-infection et support à la croissance de l’os.

Gálio elemento químico e óxidos de gálio como agente anti-cancer, anti-tumor, anti-infecção e suporte ao crescimento ósseo.

Elemental gallium and gallium oxides as drugs for cancer deceases, infectious deceases and bone growth.

Marco A. Sacilotti, Anderson S.L. Gomes, Eduardo H.L. Falcao, Severino Alves Jr., Nathalia Talita C. Oliveira, Alexandrino P. Santos Neto , Ronaldo P. de Melo, Denis Chaumont.

INPI-France, Enveloppe Soleau n° 546796 (11-09-15)

5 - Composés et structures au gallium et/ou zinc et oxydes de gallium et/ou zinc pour les traitements de l'herpès et maladies de peaux. Compostos e estruturas contendo galio e/ou zinco e óxidos de galio e/ou zinco para tratamentos da herpes e doenças da pele. Gallium and/or zinc compounds and structures and gallium and/or zinc oxides for herpes and skin diseases treatments.

Marco A. Sacilotti, Anderson S. L. Gomes, Frederico Dias Nunes, Denis Chaumont.

NPI-France, Enveloppe Soleau n° 560808 (11-03-16)

COMMANDE ES : Marco A. Sacilotti, commande n° P000316802 du 29/02/2016 (n° de transaction : 100915)

CHAPITRE DE LIVRE (ref 38)

Ling Hu, Aurélien Percheron, Denis Chaumont, Claire-Hélène Brachais

« Microwave synthesis of core-shell structured biocompatible magnetic nanohybrids in aqueous medium », in « Microwave Heating », Dr. Usha Chandra (Ed.), ISBN: 978-953-307-573-0, InTech, DOI: 10.5772/23381. Available from: <http://www.intechopen.com/books/microwave-heating/microwave-synthesis-of-core-shell-structured-biocompatible-magnetic-nanohybrids-in-aqueous-medium>

CO-EDITEUR special issue

"Nanostructured Materials: Formation, Characterization, and Properties - Latest Advances in 1D, 2D, and 3D Nanostructures," Advances in Materials Science and Engineering, vol. 2014, Luís Cunha, Denis Chaumont and Aldo Craievich

<http://www.hindawi.com/journals/amse/contents/>

DOCTORAT

“Etude structurale de la formation des sols et des gels de zircone en présence d'ultrasons”
par Denis Chaumont

Doctorat soutenu le 27 mai 1992 à l'Université Montpellier II, Directeur de thèse : J. Zarzycki,
Section : Milieux denses et Matériaux
Formation doctorale : Polymères, Interfaces et Etats Amorphes

HDR

"De la solution aux nanomatériaux : maîtrise de structures par la voie colloïdale.
Caractérisation et Valorisation", par Denis Chaumont
Habilitation à Diriger des Recherches soutenue le 22 novembre 2005 à l'Université de
Bourgogne, Dijon.