

Last name : DAOU
Name : Jean
Date de naissance : 30.08.1979 (38 years)
Family situation : Married, 3 kids
Personal address : 6 avenue Robert Schuman, 68100 Mulhouse
Professional address : Axe Matériaux à Porosité Contrôlée (MPC), Institut de Science des Matériaux de Mulhouse (IS2M) UMR CNRS-UHA 7361, 3 bis, rue Alfred Werner 68093, Mulhouse
Tel : 03-89-33-67-39
Fax : 03-89-33-68-85
E-mail : jean.daou@uha.fr

EDUCATION

- June 2014 **Habilitation (HDR)** from the University of Haute Alsace, Specialty: Chemistry.
Title: Development of new nanomaterials and zeolite objects for energy storage and molecular decontamination.
Jury: Pr. H. Gies, Pr. R. Denoyel, Pr. J. Martens, Pr. A. Corma, Pr. P. Miele, Dr. B. Lebeau, J. Patarin.
- Oct. 2004 - sept. 2007 **Doctorate in chemistry** (with honors) of the University of Louis Pasteur, Specialty: Sciences des Matériaux. Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS).
Title: Synthesis and functionalization of magnetic iron oxide nanoparticles
Jury: Pr. S. Begin-Colin, Dr. G. Pourroy, Pr. Etienne Duguet, Dr. Hubert Mutin, Pr. Pascal Perriat, Pr. R. Welter.
- Oct. 2003 - june 2004 **Master in Molecular Chemistry and Bioactive Molecules**, University of Provence Aix-Marseille I. (with honors)
Title: Synthesis of organic molecules (isoflavones) in the context of a collaborative study on anticancer effects.

PROFESSIONAL EXPERIENCE (NON-PERMANENT POSITION)

- Oct. 2007-aug 2008 **Research associate (Post-Doc)** at the Atomic Energy Center (CEA) Grenoble, LETI, Department of microTechnologies pour la Biologie et la Santé, Service Bio System on Chip, Laboratory de Fonctionnalisation et Chimie pour les Microsystèmes. In collaboration with Dr. Isabelle TEXIER-NOGUES and Dr. Peter REISS.
Subject : **A new generation of tracers (non-toxic InP quantum dots) for preclinical analysis using optical fluorescence**

PROFESSIONAL EXPERIENCE (PERMANENT POSITION)

- Sine sept. 2016 **Full Professor** at the National engineering school of chemistry in Mulhouse (ENSCMu), University of Haute Alsace (UHA), Axe Matériaux à Porosité Contrôlée (MPC), Institut de Science des Matériaux de Mulhouse (IS2M) UMR CNRS 7361.
- Sept. 2008 – aug. 2016 **Assistant professor** at the National engineering school of chemistry in Mulhouse (ENSCMu), University of Haute Alsace (UHA), Axe Matériaux à Porosité Contrôlée (MPC), Institut de Science des Matériaux de Mulhouse (IS2M) UMR CNRS 7361.

AWARDS

- June 2006 **Student award** at the European Materials Research Society (EMRS) congress.
- Oct. 2010 - sept. 2014 **National research award for researcher with high level scientific activity (Prime d'Excellence Scientifique (PES)).**

Oct. 2014 - sept. 2018	National research award for researcher with high level scientific activity (Prime d'Encadrement Doctorale (PEDR)).
Oct. 2018 - sept. 2023	Nomination for 5 years as junior member at the "Institut Universitaire de France"

SUPERVISION

4 Post-Doc, 14 PhD students (8 as supervisor and 6 as co-supervisor), 11 master II, 16 undergraduate students.

SCIENTIFIC PRODUCTION

85 publications (2478 citations and h index of 20)*, 10 patents, 69 poster presentations, 78 oral communications and 12 invited talks.

* According to Google Scholar Citations (july 2018).

INTERACTION WITH INDUSTRY AND RESEARCH LABORATORIES

Delphine Faye, Dr. Guillaume Rioland : Centre National d'Etudes Spatiales (CNES), Toulouse, **France**.

Dr. Loic Rouleau, Dr. Mathias Dodin: Institut Français du pétrole et énergies nouvelles (IFPEN), Solaize, **France**.

Dr. Jean Philippe Canault, Patrice Forler: CSP Technologies, Niederbronn-les-Bains, **France**.

Dr. Grégoire Augé, ONET Technologies, Marseille, **France**.

Dr. Nathalie Lorenzi and Damien Saumureau: Nabaiji-Decathlon, Lille, **France**.

Prof. Yannick Pouilloux and Dr. Ludovic Pinard: Institut de Chimie des Milieux et des Matériaux de Poitiers, UMR 7285, Poitiers, **France**.

Dr. Benoit Louis: Laboratoire de Synthèse Réactivité Organiques et Catalyse, Institut de Chimie, UMR 7177, Strasbourg, **France**.

Prof. Alain Moissette and Dr. Matthieu Hureau: Laboratoire de Spectrochimie Infrarouge et Raman (LASIR), UMR 8516, Lille, **France**.

Prof. Jean Pierre Bellat, Dijon, Laboratoire Interdisciplinaire Carnot de Bourgogne, UMR 6303, **France**.

Dr. Benoit Coasne : Laboratoire Interdisciplinaire de Physique (LIPhy), UMR 5588, Grenoble, **France**.

Prof. Jean-Marie Ndjaka: University of Yaounde 1, **Cameroon**.

Prof. Joumana Toufaily and Prof. Tayssir Hamieh: MCEMA Research Laboratory, **Lebanon**.

Dr. Darine Salam, American University of Beyrouth, **Lebanon**.

Dr. Eng-Poh Ng: School of Chemical Sciences, University Sains Malaysia, **Malaysia**.

Dr. Jatuporn Wittayakun: Institute of Science, Suranaree University of Technology, **Thailand**.

Dr. Jacob Leachman: School of Mechanical and Materials Engineering, Washington State University, **United States of America**.

Prof. Rosella Arletti: Università degli Studi di Torino, Dipartimento di Scienze della Terra, **Italy**.

Prof. Johan Martens and Prof. Christine Kirschhock: Center for Surface Chemistry and Catalysis, KU Leuven, **Belgium**.

SCIENTIFIC DUTIES

Since 2007 Referee for several scientific journals (Chemistry of Material, Langmuir, ACS Nano, Environmental Science & Technology, Materials Research Bulletin, Journal of Solid State Chemistry, Thin Solid Films, Microporous and Mesoporous Materials, ...).

Since 2009	Mounting of research projects at the international level: 1 European project FP7 (coordinator for IS2M), 2 Cedar projects with the Lebanese University (coordinator of the project), 1 Bio-Asie project with Thailand and Malaysia (coordinator of the project), 1 EAGER project with Washington State University.
Since 2009	Scientific and financial management of projects: 2 BQR projects, 2 Corcea projects (Ademe), 1 Alsace region project, 1 UHA project, 2 CG68 projects, 12 industrial contracts (CNES, IFPE, CSP Technologies, Nabaiji/Decathlon, ONET Technologies, ...).
Since jan. 2009	Responsible of the coordination and organization of seminars in IS2M (every Thursday).
Since sept. 2010	Member of PhD defense jury as a referee (5).
Since jan. 2011	Responsible of the quality process concerning the external and internal communication of IS2M (certification ISO 9001).
Since 2012	Member of the scientific committees of international and national conferences on materials : «8 th International Conference on Material Sciences (CSM8)», Beirut, Lebanon (28-30 may 2012). «9 th International Conference on Material Sciences (CSM9)», Nancy, France (26-28 aug. 2015). «Adsorption in Porous Materials» session in EMN Meeting on Mesoporous Materials, Energy Materials Nanotechnology, Prague, Czech republic (13-17 june 2016). «Groupe Français des Zéolithes (GFZ 2017)», Marne la Vallée, France (22-24 mar. 2017). «1 st GFZ International Conference, Cabourg, France (26-29 mar. 2018). «Matériaux 2018», Strasbourg, France (19-23 nov. 2018).
Since mar. 2012	Member of the editorial boards of "ISRN Nanomaterials" (The International Scholarly Research Network) and "Frontiers in Chemistry".
May 2012 - june 2014	Elected member of the scientific council of UHA University.
Since sept. 2014	Member of thesis monitoring committee in IS2M. The thesis monitoring committee composed of 3 researchers is the opportunity of a thorough scientific discussion. The thesis monitoring committee is supported by external referee to advice on the progress and the quality of the doctoral student work.
Since 2015	Member of 4 selection committees for the recruitment of assistant professor.
Jan. 2016 - mar. 2017	Member of IS2M scientific council.
Jan. 2016 - mar. 2017	Scientific animator of the MPC axis in IS2M with Bénédicte Lebeau (16 permanents (3 DR, 1 CR, 4 Prof, 3 MCF, 2 IR, 1 IE, 1 AI), 10 PhD students, 3 post-doc).
Since mar. 2016	Elected member of the French Zeolite Group (GFZ) office.
Since mar. 2016	Member of the French Federation of Materials (FFM).
Since sept. 2016	ENSCMu vice president, in charge of the research relations.
Since jan. 2018	Elected member of IS2M laboratory council.
Since jun. 2018	President of the French Zeolite Group (GFZ).

PEDAGOGIC DUTIES

Sept. 2008- sept. 2015	Member of the teaching improvement team in ENSCMu (8 teachers).
Since sept. 2009	Designated Member of ENSCMu development committee.
Since jan. 2009	Scientific referent of the junior company "Horizons Alsace Chemistry" which is an association composed exclusively of students ENSCMu.
Apr. 2009 - sept. 2015	Responsible for skills approach mission in ENSCMu.
Dec. 2010 – sept. 2016	Elected member of the ENSCMu council.
Since sept. 2016	Member of the executive committee of ENSCMu.

PUBLICATIONS

P1 - T.J. Daou, G. Pourroy, S. Bégin-Colin, J.M. Grenèche, C. Ulhaq-Bouillet, P. Legaré, P. Bernhardt, C. Leuvrey, G. Rogez Hydrothermal synthesis of monodisperse magnetite nanoparticles, *Chem. Mater.*, **2006**, 18, 4399.

P2 - T.J. Daou, S. Buathong, D. Ung, B. Donnio, G. Pourroy, D. Guillon, S. Bégin, Investigation of the grafting rate of organic molecules on the surface of magnetite nanoparticles as a function of the coupling agent, *Sens. Actuat. B-Chem.*, **2007**, **126**, 159.

P3 - T.J. Daou, S. Bégin-Colin, J.M. Grenèche, F. Thomas, A. Derory, P. Bernhardt, P. Legaré, G. Pourroy, Phosphate adsorption properties of magnetite-based nanoparticles, *Chem. Mater.*, **2007**, 19, 4494.

P4 - T.J. Daou, J.M. Grenèche, G. Pourroy, S. Buathong, A. Derory, C. Ulhaq-Bouillet, B. Donnio, D. Guillon, S. Bégin-Colin, Coupling agent effect on magnetic properties of functionalized magnetite-based nanoparticles, *Chem. Mater.*, **2008**, 18, 5869.

P5 - F. Mammeri, Y. L. Bras, T.J. Daou, J.L. Gallani, S. Colis, G. Pourroy, B. Donnio, D. Guillon, S. Bégin-Colin, Formation of ferrimagnetic films with functionalized magnetite nanoparticles using the Langmuir-Blodgett technique, *J. Phys. Chem. B*, **2009**, 113, 734.

P6 - T.J. Daou, L. Li, P. Reiss, V. Josserand, I. Texier, Effect of poly(ethylene glycol) length on the in vivo behavior of coated quantum dots, *Langmuir*, **2009**, 25, 3040.

P7 - T.J. Daou, G. Pourroy, J.M. Grenèche, A. Bertin, D. Felder-Flesch, S. Bégin-Colin, Water soluble dendronized iron oxide nanoparticles, *Dalton Transactions*, **2009**, 23, 4442.

P8 - L. Li, T.J. Daou, I. Texier, T.T.K. Chi, N.Q. Liem, P. Reiss, Highly luminescent CuInS₂/ZnS core/shell nanocrystals: cadmium-free quantum dots for in vivo imaging, *Chem. Mater.*, **2009**, 21, 2422.

P9 - S. Buathong, D. Ung, T.J. Daou, C. Ulhaq-Bouillet, G. Pourroy, D. Guillon, L. Ivanova, I. Bernhardt, S. Bégin, B. Donnio, Thermal, magnetic and luminescent properties of dendronized ferrite nanoparticles, *J. Phys. Chem. C*, **2009**, 113, 12201.

P10 - A. Karimi, B. Denizot, F. Hindré, R. Filmon, J.M. Grenèche, S. Laurent, T.J. Daou, S. Bégin-Colin, J.J. Le Jeune, Effect of chain length and electrical charge on properties of ammonium-bearing bisphosphonate-coated superparamagnetic iron oxide nanoparticles: formulation and physicochemical studies, *Journal of Nanoparticle Research*, **2010**, 12(4), 1239.

P11 - G. Pourroy, T.J. Daou, C. Lefevre, S. Lee, S. Lee, J.M. Grenèche, S. Bégin-Colin, Spin Canting of Magnetite Studied by NMR and In-Field Mössbauer Spectrometry, *Journal of Physical Chemistry C*, **2010**, 114(19), 8794.

P12 - N. Ram, I. Texier-Nogues, K. Pernet-Galley, C. Poillot, F. Pirolet, M. Ronjat, A. Andrieux, C. Arnoult, T.J. Daou, M. De Waard, In vitro and in vivo intracellular delivery of quantum dots by maurocalcine, *Int. J. Biomedical Nanoscience and Nanotechnology*, **2011**, 2(1), 12.

P13 - J. Schick, T.J. Daou, P. Caullet, J.L. Paillaud, J. Patarin, C. Mangold-Callare, Surfactant-modified MFI nanosheets: a high capacity anion-exchanger, *Chem. Commun.*, **2011**, 47(3), 902.

P14 - A.-F. Cosseron, H. Bennadji, G. Leyssens, L. Coniglio, T.J. Daou, V. Tschamber, Evaluation and treatment of carbonyl compounds and fine particles emitted by combustion of biodiesels in a generator, *Energy and Fuels*, **2012**, 26(10), 6160.

- P15** - B. Koubaissy, J. Toufaily, M. El-Murr, **T.J. Daou**, H. Hafez, G. Joly, P. Magnoux, T. Hamieh, Adsorption Kinetics and Equilibrium of Phenol Drifts on three Zeolites, *Central European Journal of Engineering*, **2012**, 2(3), 435.
- P16** - N. Lauridant, **T.J. Daou**, G. Arnold, M. Soulard, H. Nouali, J. Patarin, D. Faye, Key steps influencing the formation of ZSM-5 films on aluminum substrates, *Microporous and Mesoporous Materials*, **2012**, 152, 1.
- P17** - J. Dhainaut, **T.J. Daou**, Y. Bidal, N. Bats, B. Harbuzaru, G. Lapisardi, H. Chaumeil, A. Defoin, L. Rouleau, J. Patarin, One-Pot Structural Conversion of Magadiite into MFI Zeolite Nanosheets Using Mononitrogen Surfactants as Structure and Shape-Directing Agents, *CrystEngComm*, **2013**, 15, 3009.
- P18** - A.-F. Cosseron, **T.J. Daou**, L. Tzanis, H. Nouali, I. Deroche, B. Coasne, V. Tschamber, Adsorption of Volatile Organic Compounds in pure silica CHA, *BEA, MFI and STT-type zeolites, *Microporous and Mesoporous Materials*, **2013**, 173, 147.
- P19** - N. Lauridant, **T.J. Daou**, G. Arnold, H. Nouali, J. Patarin, D. Faye, Zeolite hybrid films for space decontamination, *Microporous and Mesoporous Materials*, **2013**, 172, 36.
- P20** - J. Dhainaut, **T.J. Daou**, N. Bats, B. Harbuzaru, G. Lapisardi, L. Rouleau, J. Patarin, The Influence of L-lysine and PDADMA on the Crystal Size and Porosity of Zeolite Y Material, *Microporous and Mesoporous Materials*, **2013**, 170, 346.
- P21** - N. Lauridant, **T.J. Daou**, G. Arnold, J. Patarin, D. Faye, MFI/*BEA hybrid coating on aluminum alloys, *Microporous and Mesoporous Materials*, **2013**, 166, 79.
- P22** - P.C. Belibi, **T.J. Daou**, J.-M. B. Ndjaka, L. Michelin, J. Brendlé, B. Nsom, B. Durand, Tensile and water barrier properties of cassava starch composite films reinforced by synthetic zeolite and beidellite, *Journal of Food Engineering*, **2013**, 115(3), 339.
- P23** - **T.J. Daou**, M. Boltz, L. Tzanis, L. Michelin, B. Louis, Gas-phase chlorination of aromatics over FAU- and EMT-type zeolites, *Catalysis Communications*, **2013**, 39, 10.
- P24** - J. Dhainaut, **T.J. Daou**, A. Chappaz, N. Bats, B. Harbuzaru, G. Lapisardi, H. Chaumeil, A. Defoin, L. Rouleau, J. Patarin, Synthesis of FAU and EMT-type zeolites using structure-directing agents specifically designed by molecular modelling, *Microporous and Mesoporous Materials*, **2013**, 174, 117.
- P25** - **T.J. Daou**, N. Lauridant, G. Arnold, L. Josien, J. Patarin, D. Faye, Synthesis of MFI/EMT zeolite bi-layer films for molecular decontamination, *Chemical Engineering Journal*, **2013**, 234, 66.
- P26** - I. Khay, L. Tzanis, **T.J. Daou**, H. Nouali, A. Ryzhikov, J. Patarin, Energetic Behavior of the Pure Silica ITQ-12 (ITW) Zeolite, *Physical Chemistry Chemical Physics*, **2013**, 15, 20320.
- P27** - L. Tzanis, H. Nouali, **T.J. Daou**, M. Soulard, J. Patarin, Influence of the aqueous medium on the energetic performances of Silicalite-1, *Materials Letters*, **2014**, 115, 229.
- P28** - I. Khay, **T.J. Daou**, H. Nouali, A. Ryzhikov, S. Rigolet, J. Patarin, High Pressure Intrusion-Extrusion of LiCl Aqueous Solutions in Silicalite-1 Zeolite: Influence on Energetic Performances, *J. Phys. Chem. C*, **2014**, 118, 3935.
- P29** - J. Dhainaut, A. Chappaz, D. Bernard, H. Chaumeil, **T.J. Daou**, A. Defoin, L. Rouleau, N. Bats, B. Harbuzaru, J. Patarin, Synthesis of a new diazacrown ether compound interconnected with an azacrown ether and decorated with a long lipophilic chain, *Synthetic Communications*, **2014**, **44**, 1888.
- P30** - M. Boltz, P. Losch, B. Louis, G. Rioland, L. Tzanis, **T.J. Daou**, MFI-type zeolite nanosheets for gas-phase aromatics chlorination: a strategy to overcome mass transfer limitations, *RSC Advances*, **2014**, 4, 27242.
- P31** - A. Ryzhikov, I. Khay, H. Nouali, **T.J. Daou**, J. Patarin, Drastic change in energy storage and adsorption behavior under intrusion-extrusion of electrolyte solutions in pure silica *BEA-type zeolite, *Physical Chemistry Chemical Physics*, **2014**, **16**, 17893.
- P32** - A. Ryzhikov, I. Khay, H. Nouali, **T.J. Daou**, J. Patarin Energetic performances of pure silica STF and MTT-type zeolites under high pressure water intrusion, *RSC Advances*, **2014**, 4, 37655.
- P33** - I. Kabalan, G. Rioland, H. Nouali, B. Lebeau, S. Rigolet, M.-B. Fadlallah, J. Toufaily, T. Hamiyeh, **T.J. Daou**, Synthesis of purely silica MFI-type nanosheets for molecular decontamination, *RSC Advances*, **2014**, 4, 37353.
- P34** - P.C. Belibi, **T.J. Daou**, J.M.B. Ndjaka, B. Nsom, L. Michelin, B. Durand, A comparative study of some properties of cassava and tree cassava starch films, *Physics Procedia*, **2014**, 55, 220.
- P35** - **T.J. Daou**, J. Dhainaut, A. Chappaz, N. Bats, B. Harbuzaru, H. Chaumeil, A. Defoin, L. Rouleau, J. Patarin, The use of original structure-directing agents for the synthesis of EMC-1 zeolite, *Oil & Gas Science and Technology*, **2015**, 70(3), 447.

- P36** - L. Bullo, B. Mullot, A. Simon-Masseron, T.J. Daou, G. Chaplais, J. Patarin, One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications, *Micro. Meso. Mater.*, **2015**, 210, 194.
- P37** - G. Rioland, S. Albrecht, L. Josien, L. Vidal, T.J. Daou, The influence of the nature of organosilane surfactants and their concentration on the formation of hierarchical FAU-type zeolite nanosheets, *New J. Of Chem.*, **2015**, 39, 2675.
- P38** - P. Dutournié, A. Said, T.J. Daou, J. Bikai, L. Limousy, Hydraulic performance modifications of a zeolite membrane after an alkaline treatment, *Advances in Materials Science and Engineering*, **2015**, vol. 2015, Article ID 524259, 7 pages. doi:10.1155/2015/524259.
- P39** - A. Said, T.J. Daou, L. Limousy, J. Bikai, J. Halwani, J. Toufaily, T. Hamieh, P. Dutournié, Surface energy modification of a Na-mordenite thin layer treated by an alkaline solution, *Materials Express*, **2015**, 5(5), 451.
- P40** - I. Kabalan, I. Khay, H. Nouali, A. Ryzhikov, B. Lebeau, S. Albrecht, S. Rigolet, M.-B. Fadlallah, J. Toufaily, T. Hamiyeh, J. Patarin, T.J. Daou, Influence of the Particle Sizes on the Energetic Performances of MFI-type Zeolites, *J. Phys. Chem. C*, **2015**, 119 (32), 18074.
- P41** - A. Said, L. Limousy, H. Nouali, L. Michelin, J. Halwani, J. Toufaily, T. Hamieh, P. Dutournié, T.J. Daou, Synthesis of mono and bi-layer MFI zeolite films on macroporous alumina tubular supports: application to nanofiltration, *Journal of Crystal Growth*, **2015**, 428, 71.
- P42** - A. Ryzhikov, L. Ronchi, H. Nouali, T.J. Daou, J.-L. Paillaud, J. Patarin, High Pressure Intrusion-Extrusion of Water and Electrolyte Solutions in Pure Silica LTA Zeolite, *J. Phys. Chem. C*, **2015**, 119(51), 28319.
- P43** - A. Said, H. Nouali, L. Limousy, P. Dutournié, L. Josien, J. Toufaily, T. Hamieh, T.J. Daou, Synthesis of mono and bilayer zeolite films on alumina substrates, *Comptes rendus Chimie journal*, **2016**, 19, 486.
- P44** - L. Bullo, T.J. Daou, A. Simon-Masseron, G. Chaplais, J. Patarin, Synthesis of EMT/FAU-type zeolite nanocrystal aggregates with high yield and crystalline state, *Comptes rendus Chimie journal*, **2016**, 19, 475.
- P45** - A. Ryzhikov, I. Khay, H. Nouali, T.J. Daou, J. Patarin, High pressure intrusion-extrusion of electrolyte solutions in aluminosilicate FAU and *BEA-type zeolites, *Microporous and Mesoporous Materials*, **2016**, 221, 1.
- P46** - G. Rioland, T.J. Daou, D. Faye, J. Patarin, A New Generation of MFI-type Zeolite Pellets with Very High Mechanical Performance for Space Decontamination, *Microporous and Mesoporous Materials*, **2016**, 221, 167.
- P47** - I. Kabalan, B. Lebeau, M.-B. Fadlallah, J. Toufaily, T. Hamieh, J.P. Bellat, T.J. Daou, Hierarchical FAU-type zeolite for molecular decontamination, *Journal of Nanoscience and Nanotechnology*, **2016**, 16(9), 9318.
- P48** - G. Rioland, L. Bullo, T.J. Daou, A. Simon-Masseron, G. Chaplais, D. Faye, E. Fiani, J. Patarin, Elaboration of FAU-type Zeolite Beads with Good Mechanical Performances for Molecular Decontamination, *RSC Advances*, **2016**, 6, 2470.
- P49** - A. Astafan, M.A. Benghalem, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, T.J. Daou, L. Pinard, Particular properties of the coke formed on nano-sponge *BEA zeolite during ethanol-to-hydrocarbons transformation, *J. Catal.* **2016**, 336, 1.
- P50** - I. Kabalan, B. Lebeau, H. Nouali, J. Toufaily, T. Hamieh, B. Koubaissy, J.-P. Bellat, T.J. Daou, New Generation of Zeolite Materials for Environmental Applications, *J. Phys. Chem. C*, **2016**, 120(5), 2688.
- P51** - A. Astafan, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, T.J. Daou, L. Pinard, Impact of extreme downsizing of *BEA-type zeolite crystals on n-hexadecane hydroisomerization, *New J. Of Chem.*, **2016**, 40, 4335.
- P52** - R. Arletti, L. Ronchi, S. Quartieri, G. Vezzolini, A. Ryzhikov, H. Nouali, T.J. Daou, J. Patarin, Intrusion-Extrusion Experiments of MgCl₂ Aqueous Solution in Pure Silica Ferrierite: Evidence of the Nature of Intruded Liquid by *in situ* High Pressure Synchrotron X-ray Powder Diffraction, *Microporous and Mesoporous Materials*, **2016**, 235, 253.
- P53** - I. Kabalan, L. Michelin, S. Rigolet, C. Marichal, T.J. Daou, B. Lebeau, J.-L. Paillaud, Influence of downsizing of zeolite crystals on the orthorhombic monoclinic phase transition in pure silica MFI-type, *Solid State Sciences*, **2016**, 58, 111.
- P54** - C.E.A. Kirschhock, M. De Prins, E. Verheijen, A. Ryzhikov, T.J. Daou, H. Nouali, F. Taulelle, J.A. Martens, J. Patarin, Intrusion extrusion spring performance of -COK-14 zeolite enhanced by structural changes, *Physical Chemistry Chemical Physics*, **2016**, 18, 18795.
- P55** - P. Losch, J.F. Kolb, A. Astafan, T.J. Daou, L. Pinard, P. Pale, B. Louis, Eco-Compatible Continuous Halogenation of Aromatics, *Green Chemistry*, **2016**, 18, 4714.
- P56** - G. Rioland, P. Dutournié, D. Faye, T.J. Daou, J. Patarin, Prediction of The Mechanical Properties of Zeolitic Pellets for Space Molecular Decontamination, *Beilstein Journal of Nanotechnology*, **2016**, 7, 1761.

- P57** - B. Koubaissy, Z. Yaseen, J. Toufaily, **T.J. Daou**, S. Jradi, T. Hamieh, Adsorption of Uremic toxins over dealuminated zeolites, *Adsorption Science and Technology*, **2017**, 35(1-2), 3.
- P58** - L. Bullo, M. Ben Abda, A. Simon-Masseron, **T.J. Daou**, G. Chaplais, H. Nouali, O. Schäfer, Y. Zerega, E. Fiani, J. Patarin, Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta, *Adsorption*, **2017**, 23, 101.
- P59** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, S. Albrecht, J. Patarin, Investigation of the Energetic Performance of Pure Silica BEC-type Zeolite under High Pressure Water and 20 M LiCl Intrusion-extrusion experiments, *Microporous and Mesoporous Materials*, **2017**, 254, 153.
- P60** - M. Hureau, A. Moissette, L. Tzanis, **T.J. Daou**, Effects of the zeolite particle size on the charge separated states, *Microporous and Mesoporous Materials*, **2017**, 254, 121.
- P61** - G. Rioland, H. Nouali, **T.J. Daou**, D. Faye, J. Patarin, Adsorption of Volatile Organic Compounds in Composite Zeolites Pellets for Space Decontamination, *Adsorption*, **2017**, 23, 395-403.
- P62** - M. Borel, M. Dodin, **T.J. Daou**, N. Bats, B. Harbuzaru, J. Patarin, SDA-free hydrothermal synthesis of ultra-nanosized zeolite Y, *Crystal Growth & Design*, **2017**, 17, 1173.
- P63** - M.A. Benghalem, A. Astafan, L. Pinard, **T.J. Daou**, T. Belin, New approach to the Brønsted acidity characterization of pristine zeolite crystals using reversed-flow inverse gas chromatography (RF-IGC), *J. Phys. Chem. C*, **2017**, 121, 2738.
- P64** - M.A. Benghalem, L. Pinard, J.D. Comparot, A. Astafan, **T.J. Daou**, T. Belin, Impact of crystal size on the acidity and the involved interactions studied by conventional and innovative techniques, *J. Phys. Chem. C*, **2017**, 121, 18725.
- P65** - M. Borel, M. Dodin, **T.J. Daou**, N. Bats, J. Patarin, Formation domain of SDA-free Y faujasite small crystals, *New J. Of Chem.*, **2017**, 41, 13260.
- P66** - L. Bullo, L. Vieira-Sellai, G. Chaplais, A. Simon-Masseron, **T.J. Daou**, J. Patarin, E. Fiani, Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and microsized crystals of MIL-101(Cr): static and dynamic gravimetric studies, *Environmental Science and Pollution Research*, **2017**, 24(34), 26562.
- P67** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Influence of LiCl aqueous solution concentration on the energetic performances of pure silica chabazite, *New J. Of Chem.*, **2017**, 41, 2586.
- P68** - L. Ronchi, H. Nouali, **T.J. Daou**, J. Patarin, A. Ryzhikov, Heterogeneous lyophobic systems based on pure silica ITH-type zeolite: high pressure intrusion of water and electrolyte solutions, *New J. Of Chem.*, **2017**, 41, 15087.
- P69** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Energetic performances of FER-type zeolite in the presence of electrolyte solutions under high pressure, *Energy*, **2017**, 130, 29.
- P70** - A. Ryzhikov, **T.J. Daou**, H. Nouali, J. Patarin, J. Ouwehand, S. Clerick, E. De Canck, P. Van Der Voort, J.A. Martens, Periodic mesoporous organosilicas as porous matrix for heterogeneous lyophobic systems, *Microporous and Mesoporous Materials*, **2018**, 260, 166.
- P71** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, S. Albrecht, J. Patarin, Extra large pore opening CFI and DON-type zeolites for mechanical energy storage, *Microporous and Mesoporous Materials*, **2018**, 255, 211.
- P72** - A. Astafan, M.A. Benghalem, L. Michelin, S. Rigolet, J. Patarin, L. Pinard, **T.J. Daou**, Synthesis of hierarchical ZSM-48 nano-zeolites, *New J. Of Chem.*, **2018**, 42, 4457.
- P73** - A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Drastic influence of the anion nature and concentration on high pressure intrusion-extrusion of electrolyte solutions in Silicalite-1, *PCCP*, **2018**, 20, 6462.
- P74** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, *Energetic Performances of Pure-Silica DDR Zeolite by High-Pressure Intrusion-Extrusion of Electrolyte Aqueous Solutions: A Shock-Absorber with Huge Absorbed Energy*, *J. Phys. Chem. C*, **2018**, 122(5), 2726.
- P75** - J. Randrianandraina, I. Deroche, L. Bullo, R. Stephan, M.-C. Hanf, G. Chaplais, **T.J. Daou**, A. Simon-Masseron, J. Patarin, P. Sonnet, *J. Phys. Chem. C*, **2018**, 122(24), 12731.
- P76** - C. Miranda, J. Urresta, H. Cruchade, A. Tran, M. Benghalem, A. Astafan, P. Gaudin, **T.J. Daou**, A. Ramirez, Y. Pouilloux, A. Sachse, L. Pinard, Exploring the Impact of Zeolite Porous Voids in Liquid Phase Reactions: The Case of Glycerol Etherification by tert-Butyl Alcohol, *J. Catal.*, **2018**, accepted.

P77 – M. Raad, A. Astafan, S. Hamieh; J. Toufaily; T. Hamieh; J.D. Comparot; C. Canaff, T.J. Daou, J. Patarin, L. Pinard, Catalytic properties of Ga-containing MFI-type zeolite in cyclohexane dehydrogenation and propane aromatization, *J. Catal.*, **2018**, accepted.

P78 – J. Huve, A. Ryzhikov, H. Nouali, V. Lallia, G. Augé, T.J. Daou, Porous sorbents for the capture of iodine radioactive compounds: A review, *RSC Advances*, **2018**, accepted.

PROCEEDINGS

PR1 - T.J. Daou, F. Mammeri, S. Buathong, Y. L. Bras, D. Ung, J.L. Gallani, B. Donnio, D. Guillon, G. Pourroy, S. Begin-Colin, Design of functionalized Fe₃O₄ nanoparticles for elaboration of nanostructured films with magnetic properties, *Organic/Inorganic Hybrid Materials-2007*, edited by R.M. Laine, C. Sanchez, C. Barbé, U. Schubert, *Mater. Res. Soc. Symp. Proc.* Volume 1007, Warrendale, PA, **2007**, 1007-S12-18.

PR2 - T.J. Daou, L. Li, P. Reiss, V. Josserand, I. Texier-Nogues, Effect of ligand nature on the kinetics and the bio-distribution of quantum dots in mice. NSTI Nanotechnology Boston, Massachusetts, U.S.A. **2008**, *Nanotech in Life Science & Medicine, Symp. Proc.*, **2008**, 2, 236.

PR3 - N. Lauridant, T.J. Daou, J. Patarin, M. Soulard, G. Arnold, D. Faye, Zeolite hybrid coating on aluminum substrates, *5th International FEZA Conference : abstracts, Valence, Espagne, 3-7 juillet 2011*, Ed. Universitat Politècnica de València (ISBN 978-84-8363-722-7), **2011**, 39.

PR4 - A.-F. Cosseron, V. Tschamber, L. Coniglio, T.J. Daou, Study of Non-Regulated Exhaust Emissions Using Biodiesels and Impact on a 4 Way Catalyst Efficiency, *10th International conference on engines and vehicles. Naples, Italy, 11-15.09.2011*, DOI: 10.4271/2011-24-0194.

PR5 - A.-F. Cosseron, H. Bennadji, G. Leyssens, L. Coniglio, T.J. Daou, V. Tschamber, Efficiency of a four way catalytic converter towards carbonyl compounds and fine particules emission generated by combustion of biodiesels in a generator, *Proceedings of the 12th International conference on environmental science and technology (CEST), Rhodes, Greece, 8-10 September 2011*, Ed T.D. Lekkas, **2011**, 47, A351-A358, ISBN: 978-960-7475-49-7, ISSN: 1106-5516.

PR6 - O. Schaef, M. Ben Abda, Y. Zerega, L. Bullot, A. Simon-masseron, G. Chaplais, T.J. Daou, J. Patarin, S.Reynaud, C. Coste, S. Defour, E. Fiani, Zeolites as possible adsorbents for EN 1948 standard, *Dioxine 2016 Firenze, 28/08-02/09 2016, Organohalogen Compounds, 2016*, 78, 759.

PR7 - L. Bullot, A. Simon-masseron, G. Chaplais, T.J. Daou, M. Ben Abda, Y. Zerega, O. Schaef, C. Coste, S.Reynaud, S. Defour, E. Fiani, J. Patarin, Adsorption of dioxins and 1,2 dichlorobenzene issued from waste incineration into zeolites and metal-organic frameworks (MOFs) materials, *Dioxine 2016 Firenze, 28/08-02/09 2016, Organohalogen Compounds, 2016*, 78, 1337.

PATENTS

PA1 - P. Reiss, T.J. Daou, I. Texier-Nogues, L. Li, Fluorescent nanoparticles, method for preparing same, and application thereof in biological marking, especially preparing and using CIS/ZnS core-shell nanocrystals as contrast agents, *Patent*, **2010**, FR 2937885 A1 20100507, WO 2010052221 A1 20100514.

PA2 - I. Texier-Nogues, T.J. Daou, M. Goutayer, Nanocrystal nano-emulsions comprising lipids and cosurfactants, *Patent*, **2010**, WO 2010018222 A1 20100218; FR 2934953 A1 20100219.

PA3 - J. Dhainaut, T.J. Daou, N. Bats, B. Harbuzaru, L. Rouleau, J. Patarin, Procédé de préparation d'un matériau comprenant au moins un feuillet nanométrique et au moins un composé organique monoazoté, *Patent*, **2012**, FR 2988406 A1 20130927 ; WO 2013140067 A1 20130926.

PA4 - J. Dhainaut, T.J. Daou, J. Patarin, N. Bats, B. Harbuzaru, L. Rouleau, Procédé de préparation d'une zéolithe EMC-1 de type structural FAU, *Patent*, **2012**, FR 2995884 A1 20140328.

PA5 - J. Dhainaut, T.J. Daou, J. Patarin, N. Bats, B. Harbuzaru, L. Rouleau, Procédé de préparation d'une zéolithe EMC-2 de type structural EMT, *Patent*, **2012**, FR 2995883 A1 20140328.

PA6 - D. Bernard, J. Dhainaut, N. Bats, B. Harbuzaru, L. Rouleau, **T.J. Daou**, J. Patarin, Nouveaux bis-aza-ethers couronnés possédant une chaîne alkyle et leur procédé de préparation, *Patent*, **2012**, FR2997951.

PA7 - J. Patarin, **T.J. Daou**, G. Rioland, D. Faye, Porous zeolite-based materials as adsorbent for molecular decontamination, *Patent*, **2016**, WO2016120407A1 ; FR3031915A1.

PA8 - M. Borel, M. Dodin, N. Bats, **T.J. Daou**, J. Patarin, Process for preparing a nanometric zeolite y, *Patent*, **2018**, WO2018054810A1 ; FR 3056575A1.

PA9 - M. Borel, M. Dodin, N. Bats, **T.J. Daou**, J. Patarin, Procédé de préparation d'une zéolithe Y nanométrique sous forme protonée, *Patent*, submitted the 24th of may **2017** for a french patent under the number 17/54.631.

PA10 - G. Augé, **T.J. Daou**, J. Huve, H. Nouali, A. Ryzhikov, Matériau adsorbant chargé en sel d'iode utile pour piéger de l'iode radioactif de composés iodés à l'état gazeux par substitution isotopique d'iode submitted the 13th of july **2018** for a french patent under the number 1000472056.

INVITED CONFERENCES

C1 - **T.J. Daou**, I. Texier-Nogues, Nouvelle Génération de Traceurs pour l'Imagerie Moléculaire Optique, *Atelier Thématique du réseau Crunch*, Caen, 25 january **2008**.

C2 - **T.J. Daou**, L. Lee, P. Reiss, I. Texier-Nogues, The influence of the chemical coating on the bio-distribution of quantum dots in vivo, *TOPIM*, Les Houches, 4-8 february **2008**.

C3 - N. Lauridant, **T.J. Daou**, G. Arnold, J. Patarin, D. Faye, Synthèse de films zéolithiques hybrides pour la décontamination moléculaire, *Institut de Chimie des Milieux et Matériaux de Poitiers (IC2MP) UMR 7285 CNRS - Université de Poitiers*, Equipe zéolithes et solides apparentés, Poitiers-France, 22 june **2012**.

C4 - **T.J. Daou**, Synthèse et caractérisation d'objets zéolithiques pour la décontamination moléculaire dans l'espace, Journée technique du Pôle Européen de la Céramique, Limoges-France, 15 april **2015**.

C5 - **T.J. Daou**, Les zéolithes dans l'espace, *Laboratoire MCEMA de l'Université Libanaise à Hadath-Beyrouth-Liban*, 11 november **2015**.

C6 - **T.J. Daou**, Synthèse et caractérisation d'objets zéolithiques pour la décontamination moléculaire dans l'espace, *CSP Technologies*, Niederbronn-les-Bains, France, 20 may **2016**.

C7 - **T.J. Daou**, *New Generation of Nanoporous Materials for Environmental Applications*, *EMN Meeting on Mesoporous Materials, Energy Materials Nanotechnology, Prague-République Tchèque*, 13-17 june **2016**.

C8 - **T.J. Daou**, H. Nouali, Les nanoporeux pour la décontamination moléculaire, *Journée « Analyse Thermogravimétrique, Analyse des gaz émis, ATG de Titration : Des outils pour l'analyse de la sorption de gaz et de vapeurs » SETARAM Instrumentation*, Caluire, France, 22 september **2016**.

C9 - **T.J. Daou**, Matériaux zéolithiques hiérarchisés pour la décontamination moléculaire et le stockage d'énergie, Laboratoire de Cristallographie, Résonance Magnétique et Modélisations, UMR CNRS 7036 et Laboratoire de Chimie et Physique des Milieux Complexes, EA 4632, Institut Jean Barriol, Nancy, France, 8 septembre **2017**.

C10 - **T.J. Daou**, Stockage d'énergie dans les matériaux poreux, Laboratory of Applied Studies for Sustainable Development and Renewable Energy (LEADDER), Laboratory of Materials, Catalysis, Environment and Analytical Methods (MCEMA), Beyrouth, Liban, 8 mai **2018**.

C11 - **T.J. Daou**, Porous materials for molecular decontamination in satellites, Space Forum, Luxembourg, Luxembourg, 14-15 mai **2018**.

C12 - G. Rioland, D. Faye, J. Patarin and **T.J. Daou**, Space molecular decontamination using porous materials, Collaborative Conference on Materials Research (CCMR) 2018, Incheon/Séoul, Corée du Sud, 25-29 juin **2018**.

BOOK

B1- Participation (3 verified synthesis) "Verified syntheses of zeolitic materials", Third revised edition, Ed. Svetlana Mintova, 2016 ISBN: 978-0-692-68539-6.

ORAL COMMUNICATIONS

- OC1 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Synthèse et caractérisation des nanoparticules de magnetite, *Journée applications MET*, Strasbourg, 11 march 2005.
- OC2 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Elaboration de nano-objets: nanoparticules hybrides multifonctionnelles, *Journées de l'IPCMS*, Strasbourg, 12-13 may 2005.
- OC3 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Synthèse de nanoparticules d'oxydes et étude du greffage par l'acide phosphorique, *Colloque Nano-Hybride 2*, Autrans, 6-10 june 2005.
- OC4 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Etude du greffage de nanoparticules magnétiques par l'acide phosphorique, *Eurochem 2005*, Nancy, 29 august-1 september 2005.
- OC5 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, D. Guillon, G. Pourroy, Etude du greffage direct de molécules organiques à la surface de nanoparticules d'oxydes magnétiques, *Journée SFC Alsace de Communications des Doctorants*, Strasbourg, 4 may 2006.
- OC6 - T.J. Daou, S. Buathong, D. Ung, F. Mammeri, B. Donnio, J.L. Gallani, G. Pourroy, D. Guillon, S. Bégin-Colin, Synthèse et organisation de nanoparticules magnétiques fonctionnalisées, *Colloque MHOM1 (Matériaux Hybrides Organisés Multifonctionnels)*, La Grande Motte, 9-11 may 2006.
- OC7 - T.J. Daou, S. Bégin-Colin, G. Pourroy, J.M. Grenèche, Hydrothermal synthesis of magnetic magnetite nanoparticles ($d = 39 \pm 5$ nm), *Scientific and Clinical Applications of Magnetic Carriers*, Krems – Austria, 17-20 may 2006.
- OC8 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, D. Guillon, G. Pourroy, Magnetic nanoparticles decorated by organic molecules- Towards dendronized nanoparticles, *Euroconference on dendrimer soft self assembly system*, Obernai, 17-21 may 2006.
- OC9 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, G. Pourroy, D. Guillon, Investigation of the grafting rate of organic molecules on the surface of magnetic nanoparticles as a function of the coupling agent, *EMRS*, Nice, 29 may -2 june 2006.
- OC10 - F. Mammeri, J.L. Gallani, T.J. Daou, S. Buathong, S. Bégin, B. Donnio, G. Pourroy, Organisation de nanoparticules fonctionnalisées, *Colloque Nano-Hybride 3*, Porquerolles, 6-9 june 2006.
- OC11 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, D. Guillon, G. Pourroy, Etude d'agents de couplage et du taux de greffage à la surface de nanoparticules magnétiques, *Colloque Nano-Hybride 3*, Porquerolles, 6-9 june 2006.
- OC12 - T.J. Daou, S. Buathong, D. Ung, F. Mammeri, B. Donnio, J.L. Gallani, G. Pourroy, D. Guillon, S. Bégin-Colin, Nanoparticules fonctionnalisées par des dendrons, *Rencontre ICMCB – IPCMS*, Strasbourg, 10-12 july 2006.
- OC13 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, D. Guillon, J.M. Grenèche, G. Pourroy, Synthèse et fonctionnalisation de nanoparticules d'oxydes, *Journée « Physique-Matériaux-BIO » IPCMS*, Strasbourg, 20 september 2006.
- OC14 - T.J. Daou, S. Buathong, D. Ung, F. Mammeri, B. Donnio, J.L. Gallani, G. Pourroy, D. Guillon, S. Bégin-Colin, J.M. Grenèche, Synthèse et organisation de nanoparticules de magnétite fonctionnalisées, *Matériaux 2006*, Dijon, 13-17 november 2006.
- OC15 - D. Ung, S. Buathong, T.J. Daou, J.M. Grenèche, A. Derory, G. Pourroy, B. Donnio, D. Guillon, S. Bégin, Influence of dendron architecture on properties of fonctionalised maghemite nanoparticules, *TMN*, Strasbourg, 21-24 november 2006.
- OC16 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, G. Pourroy, D. Guillon, Elaboration of nano-objects: Multifunctional hybrid nanoparticles, *Journée Franco-Japonnaise*, Strasbourg 12 january 2007.

- OC17** - D. Ung, T.J. Daou, S. Buathong, J.M. Grenèche, A. Derory, G. Pourroy, B. Donnio, D. Guillon, S. Bégin, Influence of dendron architecture on properties of functionalized maghemite nanoparticles, *EMRS*, Strasbourg, 28 may -1 june 2007.
- OC18** - T.J. Daou, L. Li, P. Reiss, V. Josserand, I. Texier-Nogues, Effect of ligand nature on the kinetics and the bio-distribution of quantum dots in mice, *NSTI Nanotechnology Boston*, Massachusetts, United States of America, 1-5 june 2008.
- OC19** - N. Lauridant, T.J. Daou, M. Soulard, J. Patarin, G. Arnold, D. Faye, Zéolithisation de supports métalliques pour la décontamination moléculaire, *CCTMAT & STR*, Toulouse-CNES, 29 june 2010.
- OC20** - N. Lauridant, T.J. Daou, M. Soulard, J. Patarin, G. Arnold, D. Faye, Synthèse et caractérisation de films zéolithiques sur des supports en aluminium, *GFZ-GECat*, Arêches, 23-26 may 2011.
- OC21** - N. Lauridant, T.J. Daou, M. Soulard, J. Patarin, G. Arnold, D. Faye, Zeolite hybrid coating on aluminum substrates, *FEZA 2011*, Valencia, Spain, 3-7 july 2011.
- OC22** - N. Lauridant, T.J. Daou, J. Patarin, M. Soulard, G. Arnold, D. Faye, Synthèse de films zéolithiques pour la décontamination moléculaire, *Colloque Recherche de la Fédération Gay-Lussac* : « Chimie pour un développement durable : procédés, énergie et environnement », Strasbourg, 22-24 november 2011.
- OC23** - A.F. Cosseron, H. Bennadji, G. Leyssens, L. Coniglio, T.J. Daou, V. Tschamber, Efficiency of a four way catalytic converter towards carbonyl compounds and fine particules emission generated by combustion of biodiesels in a generator, *12th International conference on environmental science and technology (CEST)*, Rhodes, Greece, 8-10 September 2011.
- OC24** - L. Bonvalot, C. Reynard-Carette, M. Mercury, Y. Zerega, M. Carette, A. Janulyte, J. André, J. Patarin, T.J. Daou, A. Simon-Masseron, Etude de l'adsorption en flux gazeux de dioxine et des écoulements associés dans un lit fixe de faujasite, *Colloque Groupe Français des Zéolithes (GFZ)*, Mittelwihr, 21-23 march 2012.
- OC25** - J. Dhainaut, T.J. Daou, N. Bats, B. Harbuzaru, L. Rouleau, J. Patarin, Synthèse d'une nouvelle génération de nanofeuillets zéolithiques par l'utilisation d'agents structurants et texturants monoazotés, *Colloque Groupe Français des Zéolithes (GFZ)*, Mittelwihr, 21-23 march 2012.
- OC26** - N. Lauridant, H. Nouali, T.J. Daou, G. Arnold, J. Patarin, D. Faye, Utilisation de films zéolithiques pour l'adsorption de COVs dans les satellites, *Association Francaise de l'Adsorption (AFA)*, Paris-Jussieu, 24-25 May 2012.
- OC27** - N. Lauridant, T.J. Daou, G. Arnold, H. Nouali, J. Patarin, D. Faye, Synthesis of Zeolite Hybrid Films for Space Decontamination, *Eigth International Conference on Material Sciences (CSM8-ISM5)*, Beyrouth, Lebanon, 28-30 may 2012.
- OC28** - N. Lauridant, T.J. Daou, G. Arnold, H. Nouali, J. Patarin, D. Faye, Zéolithisation de supports métalliques pour la décontamination moléculaire, *Journée de présentation des travaux de thèse dans le domaine Structure et Matériaux*, Toulouse, 05 june 2012.
- OC29** - T.J. Daou, J. Dhainaut, N. Bats, B. Harbuzaru, L. Rouleau, J. Patarin, One-Pot Structural Conversion of Magadiite into MFI Zeolite Nanosheets Using Mononitrogen Surfactants as Structure and Shape-Directing Agents, *British Zeolite Association (BZA)*, Chester, Great Britain, 15-20 july 2012
- OC30** - L. Tzanis, M. Trzpit, M. Soulard, T.J. Daou, J. Patarin, Energetic performances of channel and cage-type zeosils, *17th International Zeolite Conference (IZC)*, Moscou, Russia, 7-12 july 2013.
- OC31** - T.J. Daou, J. Dhainaut, A. Chappaz, N. Bats, B. Harbuzaru, G. Lapisardi, H. Chaumeil, A. Defoin, L. Rouleau, J. Patarin, Synthesis of FAU- and EMT-type zeolites using novel templates designed by molecular modelling, *NextLAB 2014*, Rueil Malmaison, 2-4 april 2014.

- OC32** - G. Rioland, S. Albrecht, H. Nouali, L. Josien, J. Patarin, T.J. Daou, Influence of the Organosilane Nature and Concentration on the Formation of Hierarchical FAU-Type Zeolite Nanosheets, *V International Workshop on Layered Materials*, Mulhouse, 27-29 august 2014.
- OC33** - A. Astafan, M. Benghalem, S. Hamieh, L. Pinard, Y. Pouilloux, J. Patarin, T.J. Daou, HMF1 Zeolite nanosheets: catalysts resistant to coking, *V International Workshop on Layered Materials*, Mulhouse, 27-29 august 2014.
- OC34** - T.J. Daou, I. Khay, H. Nouali, A. Ryzhikov, S. Rigolet, J. Patarin, Effect of LiCl aqueous solutions on the energetic performances of Silicalite-1, *6th International FEZA Conference*, Leipzig-Germany, 8-11 september 2014.
- OC35** - T.J. Daou, Zéolithisation de supports en aluminium pour la décontamination moléculaire en orbite, *Journée de la fédération de recherche « Matériaux et Nanosciences Alsace »*, Strasbourg, 17 octobre 2014.
- OC36** - A. Astafan, M. Benghalem, T. Belin, Y. Pouilloux, S. Mignard, J. Patarin, N. Bats, C. Bouchy, L. Pinard, T.J. Daou, Transformation de l'éthanol en hydrocarbures sur catalyseurs zéolithiques ; Relation entre propriétés texturales et tolérance au cokage, *Colloque Groupe Français des Zéolithes (GFZ)*, St-Valéry-sur-Somme, 25-27 march 2015.
- OC37** - L. Bullot, A. Simon-Masseron, T.J. Daou, G. Chaplais, J. Patarin, M. Ben Abda, O. Schaef, Y. Zerega, E. Fiani, Adsorption du 1,2-dichlorobenzène sur la zéolithe de type Faujasite pour la dépollution des émissions d'usines d'incinération de déchets, *Colloque Groupe Français des Zéolithes (GFZ)*, St-Valéry-sur-Somme, 25-27 march 2015.
- OC38** - G. Rioland, S. Albrecht, H. Nouali, L. Josien, D. Faye, J. Patarin, T.J. Daou, Influence de la Nature et de la Concentration d'Organosilane sur la Formation de Nanofeuillets Hiérarchisés de Zéolithe de Type FAU, *Colloque Groupe Français des Zéolithes (GFZ)*, St-Valéry-sur-Somme, 25-27 march 2015.
- OC39** - A. Said, L. Limousy, J. Bikai, T.J. Daou, P. Dutournié, Filtration Of Aqueous Solutions Using Ultrafiltration Zeolite Membranes: A New Way To Investigate The Interactions between The Surface and Solvent, 6th international renewable energy congress, Tunisia, 24-26 march 2015.
- OC40** - T.J. Daou, I. Khay, H. Nouali, A. Ryzhikov, S. Rigolet, J. Patarin, Effect of LiCl Aqueous Solutions on the Energetic Performances of Silicalite-1, *2015 International Conference on Nanospace Materials*, Taipei-Taiwan, 23-25 june 2015.
- OC41** - I. Kabalan, B. Lebeau, M.-B. Fadlallah, J. Toufaily, T. Hamieh, J.P. Bellat, T.J. Daou, Synthesis of nanoporous materials for molecular decontamination, *The 9th International Conference on Material Sciences (CSM9)*, Nancy, 26-28 august 2015.
- OC42** - A. Said, L. Limousy, J. Halwani, J. Toufaily, T. Hamieh, T.J. Daou, Design of new tubular ceramic membranes using a double layered MFI thin film, *The 9th International Conference on Material Sciences (CSM9)*, Nancy, 26-28 august 2015.
- OC43** - A. Astafan, M. Benghalem, T. Belin, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, L. Pinard, T.J. Daou, Relationship between the crystal morphology and acidity of the *BEA-type zeolites and the resistance to coke formation during ethanol to hydrocarbons transformation. *EuropaCat XII 2015*, Kazan-Russia, 30 august - 4 september 2015.
- OC44** - P. Dutournié, L. Limousy, T.J. Daou, J. Bikai, S. Déon, Modification of the filtration property of aqueous solutions using ultrafiltration zeolite membranes after alkaline treatment, *10th European congress of Chemical Engineering*, Nice, 27 september - 1 october 2015.
- OC45** - L. Limousy, A. Said, T.J. Daou, P. Dutournié, Design of new tubular ceramic membranes using a double layered ZSM-5 thin film, *10th European congress of Chemical Engineering*, Nice, 27 september - 1 october 2015.
- OC46** - G. Rioland, T.J. Daou, H. Nouali, D. Faye, J. Patarin, Elaboration de matériaux zéolithiques pour la contamination moléculaire en orbite, *15^{eme} édition des journées CNES jeunes chercheurs*, Cité de l'espace, Toulouse, 14-16 october 2015.

- OC47** - M. Borel, **T.J. Daou**, N. Bats, J. Patarin, Zeolite Y nanocrystals synthesis without organic-structure-directing agent, *Workshop IFPEN*, Solaize, 2-3 décembre 2015.
- OC48** - L. Bullot, A. Simon-Masseron, **T.J. Daou**, G. Chaplais, J. Patarin, M. Ben Abda, O. Schaeff, Y. Zerega, E. Fiani, Adsorption du 1,2-dichlorobenzène sur la zéolithe de type Faujasite pour la dépollution des émissions d'usines d'incinération de déchets, *Colloque Association Française de l'Adsorption (AFA)*, Paris, 3-5 february 2016.
- OC49** - A. Astafan, H. Sammoury, J. Patarin, **T.J. Daou**, N. Bats, C. Bouchy, Y. Pouilloux, L. Pinard, Avantages et inconvénients de l'utilisation des zéolithes 2-D en catalyse, *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.
- OC50** - M. Borel, M. Dodin, **T.J. Daou**, N. Bats, B. Harbuzaru, C. Bouchy, J. Patarin, Synthèse de nanocristaux de zéolithe Y sans agent organique structurant, *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.
- OC51** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Influence de la nature de la solution aqueuse sur les performances énergétiques de la chabazite (Si-CHA), *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.
- OC52** - M.A. Benghalem, A. Astafan, Y. Pouilloux, S. Mignard, J. Patarin, **T.J. Daou**, L. Pinard, T. Belin, Caractérisations des zéolithes *BEA par chromatographie gazeuse à flux inversé, *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.
- OC53** - M. Raad, A. Astafan, S. Hamieh, J. Toufaily, **T.J. Daou**, J. Patarin, F. Epron, L. Pinard, Aromatisation du propane : impact de la hiérarchisation de la zéolithe HZSM-5 sur la localisation du gallium, *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.
- OC54** - I. Kabalan, B. Lebeau, H. Nouali, J.P. Bellat, **T.J. Daou**, VOCs adsorption by a new generation of nanoporous material, *12th International Conference on the Fundamentals of Adsorption*, Graf, Zeppelin-Haus, Friedrichshafen/Lake Constance- Germany, 29 may - 3 june 2016.
- OC55** - A. Astafan, M.A. Benghalem, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, **T.J. Daou**, L. Pinard, Which impacts of extreme downsizing of *BEA zeolite crystal on its catalytic performances?, *The 16th International Congress on Catalysis*, Pekin-China, 3-8 june 2016.
- OC56** - A. Astafan, M.A. Benghalem, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, **T.J. Daou**, L. Pinard, Which impacts of extreme downsizing of *BEA zeolite crystal on its catalytic performances?, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC57** - G. Rioland, T.J. Daou, Synthesis of Hierarchical FAU-type Zeolite Nanosheets, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC58** - G. Rioland, **T.J. Daou**, D. Faye, J. Patarin, Space Molecular Decontamination: Shaped Zeolites as a Major Solution, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC59** - M. Dodin, M. Borel, **T.J. Daou**, J. Patarin, N. Bats, High-silica ultra-nanosized Y zeolite, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC60** - R. Arletti, L. Ronchi, S. Quartieri, G. Vezzalini, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Intrusion-extrusion of MgCl₂ aqueous solution in pure silica ferrierite: structural information from *in situ* high pressure X-ray powder diffraction experiments, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC61** - M. Hureau, A. Moissete, **T.J. Daou**, Effects of the zeolites structuration on the charges separated states, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- OC62** - L. Bullot, A. Simon-Masseron, **T.J. Daou**, G. Chaplais, J. Patarin, I. Deroche, E. Fiani, Adsorption du 1,2-dichlorobenzène sur zéolithe NaX et MOF MIL-101(Cr) pour la dépollution des émissions d'usines d'incinération de déchets, *Journée de l'école doctorale*, Mulhouse, 12 july 2016.

- OC63** - O. Schäf, M. Ben Abda, Y. Zerega, L. Bullot, A. Simon-Masseron, G. Chaplais, **T.J. Daou**, J. Patarin, S. Reynaud, S. Defour, C. Coste, E. Fiani, Zeolites as possible adsorbents for EN 1948 Standard, *Dioxine 2016 FIRENZE*, Florence Italy, 28 august - 2 september **2016**.
- OC64** - L. Elhanache, B. Lebeau, J. Toufaily, T. Hamieh, **T.J. Daou**, Synthèse de nanomatériaux hiérarchisés de type *BEA et MFI pour la décontamination moléculaire dans l'eau, *GFZ 2017*, Marne la Vallée, 22-24 march **2017**.
- OC65** - P. Losch, J. F. Kolb, A. Astafan, **T.J. Daou**, L. Pinard, P. Pale, B. Louis, Eco-Compatible Zeolite-Catalysed Continuous Halogenation of Aromatics, 8th International Symposium on Acid-Base Catalysis, Rio de Janeiro-Brazil, 7-10 may **2017**.
- OC66** - A. Ryzhikov, L. Ronchi, H. Nouali, **T.J. Daou**, J. Patarin, Zéolithes purement siliciques pour le stockage d'énergie mécanique: influence de la nature du liquide intrusé sur les performances énergétiques, *SCF Grand Est 8*, Mulhouse, 11-12 may **2017**.
- OC67** - C. Miranda, J. Urresta, A. Astafan, P. Gaudin, **T.J. Daou**, Y. Pouilloux, L. Pinard, Efficiency of the extreme downsizing of *BEA and MFI crystals on glycerol etherification with *tert*-butyl alcohol, *ISGC 2017*, La Rochelle, 16-19 may **2017**.
- OC68** - C. Miranda, J. Urresta, A. Astafan, P. Gaudin, **T.J. Daou**, Y. Pouilloux, L. Pinard, Nanosponge of *BEA and MFI zeolite as catalysts in glycerol etherification with *tert*-butyl alcohol, *NAM 25*, Denver-Colorado, United States of America, 4-9 june **2017**.
- OC69** - G. Rioland, D. Faye, J. Patarin, **T.J. Daou**, Space Molecular Decontamination: Shaped Zeolites as a Major Solution, *7th International FEZA Conference*, Sofia, Bulgaria, 3-7 july **2017**.
- OC70** - I Kabalan, B. Lebeau, H. Nouali, J.P. Bellat, **T.J. Daou**, VOCs adsorption by a new generation of nanoporous material, 8th International Symposium on Nanoporous Materials, Ottawa, Canada, 9-12 july **2017**.
- OC71** - A. Bettelli, M. Polisi, R. Arletti, S. Quartieri, **T.J. Daou**, J. Patarin, G. Vezzalini, High pressure induced penetration of alcohol and water molecules in all silica zeolites: the case of Si-chabazite, *XIII Italian Congress of Zeolites Science and Technology*, Florence-Italy, 1-2 september **2017**.
- OC72** - A. Ryzhikov, L. Ronchi, H. Nouali, **T.J. Daou**, J. Patarin, Energetic performances of channel and cage-type zeolites under high-pressure intrusion of water and aqueous salt solutions, *1st GFZ International Conference*, Cabourg (France), 26-29 march **2018**.
- OC73** - G. Confalonieri, R. Arletti, L. Ronchi, S. Quartieri, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, High-pressure intrusion-extrusion of NaCl solutions in pure silica chabazite, *1st GFZ International Conference*, Cabourg (France), 26-29 march **2018**.
- OC74** - G. Rioland, D. Faye, J. Patarin, **T.J. Daou**, La mise en forme de zéolithes pour la décontamination moléculaire en orbite, *Matériaux 2018*, Strasbourg, France, 19-23 november **2018**.
- OC75** - L. Elhanache, B. Lebeau, J. Toufaily, T. Hamieh, **T.J. Daou**, Nouvelle génération de nanoporeux hiérarchisés pour le piégeage des nitrates dans l'eau, *Matériaux 2018*, Strasbourg, France, 19-23 november **2018**.
- OC76** - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Intrusion d'eau et de solutions salines dans les zéolites de type CDO, MTF et ITE : performances énergétiques, *Matériaux 2018*, Strasbourg, France, 19-23 november **2018**.
- OC77** - I. Deroche, C. Picard, **T.J. Daou**, B. Coasne, Phase Diagram for Adsorption in Purely Siliceous Zeolites, *Matériaux 2018*, Strasbourg, France, 19-23 november **2018**.
- OC78** - J. Huve, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Synthèse et Performances Energétiques de Nanoboîtes Hiérarchisées de Silicalite-1, *Matériaux 2018*, Strasbourg, France, 19-23 november **2018**.

POSTER COMMUNICATIONS

PC1 - T.J. Daou, G. Pourroy, S. Bégin, Hydrothermal synthesis of monodisperse magnetic nanoparticles, *Journées de la SFC Grand Est*, Mulhouse, 22-23 march 2005.

PC2 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Synthèse de nanoparticules d'oxydes et étude du greffage par l'acide phosphorique, *Colloque Nano-Hybride 2*, Autrans, 6-10 june 2005.

PC3 - T.J. Daou, G. Pourroy, S. Bégin-Colin, Synthèse de nanoparticules d'oxydes magnétiques et étude de leur greffage par l'acide phosphorique, *Colloque "Nano-Objets aux Interfaces" NOIS*, Montpellier, 22-25 november 2005.

PC4 - D. Ung, S. Buathong, T.J. Daou, S. Bégin, B. Donnio, D. Guillon, G. Pourroy, Etude du greffage de dendrons à la surface de nanoparticules oxydes, *Colloque Nano-Hybride 3*, Porquerolles, 6-9 june 2006.

PC5 - T.J. Daou, S. Bégin-Colin, D. Ung, S. Buathong, J. M Grenèche, C. Ulhaq-Bouillet, P. Legare, P. Bernhardt, C. Leuvre, A. Derury, B. Donnio, D. Guillon, G. Pourroy, Synthesis and Functionalization of Magnetic Oxide Nanoparticles, *Journée de recherche de l'ECPM*, Strasbourg, 14-15 june 2006.

PC6 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, G. Pourroy, D. Guillon, Magnetic nanoparticles decorated by organic molecules, *1st European chemistry congress*, Budapest, Hungary, 27-31 august 2006.

PC7 - D. Ung, S. Buathong, T.J. Daou, S. Bégin, B. Donnio, G. Pourroy, D. Guillon, Dendronized nanoparticles: Magnetic oxide nanoparticles grafted with luminescent dendrimers, *1st European chemistry congress*, Budapest, Hungary, 27-31 august 2006.

PC8 - T.J. Daou, S. Buathong, D. Ung, S. Bégin, B. Donnio, D. Guillon, J.M. Grenèche, G. Pourroy, Multifunctional hybrid nanoparticles, *Journée « Physique-Matériaux-BIO » IPCMS*, Strasbourg, 20 september 2006.

PC9 - T.J. Daou, S. Bégin, J.M. Grenèche, A. Derory, G. Pourroy, Investigation of a synthetic phosphate adsorbent, *TMN*, Strasbourg, 21-24 november 2006.

PC10 - T.J. Daou, S. Buathong, D. Ung, J.M. Grenèche, A. Derory, B. Donnio, D. Guillon, G. Pourroy, S. Bégin, Influence of the coupling agent on properties of fonctionalised magnetic nanoparticles, *TMN*, Strasbourg, 21-24 november 2006.

PC11 - B.P. Pichon, T.J. Daou, S. Buathong, J.-L. Gallani, B. Donnio, D. Guillon, G. Pourroy, S. Bégin-Colin, Organisation of functionalized oxide nanoparticles in thin films, *EMRS*, Strasbourg, 28 may -1 june 2007.

PC12 - T.J. Daou, B. Pichon, F. Mammeri, D. Ung, S. Buathong, Y. Le Bras, C. Ulhaq, J.L. Gallani, B. Donnio, D. Guillon, G. Pourroy, S. Bégin-Colin, Design of functionalized Fe₃O₄ nanoparticles for elaboration of nanostructured films with magnetic properties, *MRS spring meeting*, San Francisco, United State of America, 9-13 april 2007.

PC13 - A. Simon-Masseron, G. Chaplais, T.J. Daou, Les éponges minérales en Travaux Pratiques, *JIREC et MIEC*, Mulhouse, 3-5 june 2009.

PC14 - T.J. Daou, A. Jakob, N. Lauridant, M. Soulard, J. Patarin, D. Faye, New generation of zeolites beta films and microspheres, *IZC-IMMS*, Sorrento, Italy, 4-9 july 2010.

PC15 - N. Lauridant, T.J. Daou, J. Patarin, M. Soulard, G. Arnold, D. Faye, Zéolithisation hybride de supports en aluminium pour la décontamination moléculaire, *11^{ème} Edition des Journées CNES Jeunes Chercheurs (JC²)*, Toulouse, 10-12 october 2011.

PC16 - T.J. Daou, J. Patarin, H. Nouali, Synthèse de Macrostructures Zéolithiques de type A (LTA) en présence de Résines Echangeuses d'Ions, *Colloque Groupe Français des Zéolithes (GFZ)*, Arèche, 23-26 may 2011.

PC17 - N. Lauridant, T.J. Daou, J. Patarin, M. Soulard, G. Arnold, D. Faye, Synthèse et caractérisation de films zéolithiques sur des supports en aluminium, *4^{ème} journée scientifique du PMNA*, Strasbourg, 18 february 2011.

- PC18 - A.F. Cosseron, T.J. Daou, H. Nouali, V. Tschamber, Joël Patarin, Etude de l'adsorption de Composés Organiques Volatils dans des zéolithes hydrophobes, *Colloque Groupe Français des Zéolithes (GFZ)*, Mittelwihr, 21-23 march 2012.
- PC19 - N. Lauridant, T.J. Daou, G. Arnold, J.Patarin, D. Faye, Zéolithisation d'alliages d'aluminium pour la décontamination en orbite, *Journée de l'École Doctorale*, Mulhouse, 14 june 2012.
- PC20 - A.F. Cosseron, V. Tschamber, T.J. Daou, Evaluation et traitement des polluants émis par un moteur thermique Diesel, *Journée de l'École Doctorale*, Mulhouse, 14 juin 2012.
- PC21 - J. Dhainaut, T.J. Daou, N. Bats, B. Harbuzaru, L. Rouleau, J. Patarin, One-Pot Structural Conversion of Magadiite into MFI Zeolite Nanosheets Using Mononitrogen Surfactants as Structure and Shape-Directing Agents, *Journée de l'École Doctorale*, Mulhouse, 14 june 2012.
- PC22 - T.J. Daou, N. Lauridant, G. Arnold, H. Nouali, J. Patarin, D. Faye, Zeolite hybrid films for space decontamination, *British Zeolite Association (BZA)*, Chester, Great Britain, 15-20 july 2012.
- PC23 - I. Khay, L. Tzanis, A. Ryzhikov, T.J. Daou, H. Nouali, J. Patarin, Performances énergétiques de la zéolithe purement silicique ITQ-12 (ITW), *Colloque Groupe Français des Zéolithes (GFZ)*, Semur-en-Auxois, 27-29 march 2013.
- PC24 - A.Said, T.J. Daou, L. Limousy, J. Halawani, J.Toufaily, Synthèse de membranes minérales de nanofiltration par formation de films minces de zéolithes sur un support tubulaire en alumine : étude de l'évolution des propriétés de surface et des caractéristiques de filtration en milieu aqueux, *3^{ème} forum doctoral en Sciences et Technologie*, Hadath-Lebanon, 25 june 2013.
- PC24 - I. Kabalan, T.J. Daou, B. LEBEAU, M.-B. Fadlallah, J. Toufaily, T.Hamieh, B. Koubaissy, Synthèse de matériaux nanoporeux pour la décontamination moléculaire, *3^{ème} forum doctoral en Sciences et Technologie*, Hadath-Lebanon, 25 june 2013.
- PC26 - N. Lauridant, T.J. Daou, G. Arnold, H. Nouali, J. Patarin, D. Faye, Zeolite hybrid films for space decontamination, *17th International Zeolite Conference (IZC)*, Moscou, Russia, 7-12 july 2013.
- PC27 - T.J. Daou, J. Dhainaut, N. Bats, B. Harbuzaru, L. Rouleau, J. Patarin, One-Pot Structural Conversion of Magadiite into MFI Zeolite Nanosheets Using Mononitrogen Surfactants as Structure and Shape-Directing Agents, *17th International Zeolite Conference (IZC)*, Moscou, Russia, 7-12 july 2013.
- PC28 - T.J. Daou, J. Dhainaut, A. Chappaz, N. Bats, B. Harbuzaru, G. Lapisardi, H. Chaumeil, A. Defoin, L. Rouleau, J. Patarin, Synthesis of FAU- and EMT-type zeolites using novel templates designed by molecular modelling, *17th International Zeolite Conference (IZC)*, Moscou, Russia, 7-12 july 2013.
- PC29 - M. Ben Abda, O. Schäfer, Y. Zerega, A. Simon-Masseron, L. Bullot, T.J. Daou, J. Patarin, Adsorption de dioxines sur les zéolithes, *Les 3^{èmes} Journées de l'Association Française de l'Adsorption*, Jussieu, Paris, 11-12 february 2014.
- PC30 - I. Khay, T.J. Daou, H. Nouali, A. Ryzhikov, S. Rigolet, J. Patarin, Influence de la concentration de LiCl en solution aqueuse sur les performances énergétiques de la Silicalite-1 (MFI), *Colloque Groupe Français des Zéolithes (GFZ)*, Ile de Ré, 19-21 march 2014.
- PC31 - I. Kabalan, T.J. Daou, B. Lebeau, M.-B. Fadlallah, J. Toufaily, T.Hamieh, B. Koubaissy, Synthèse de nanofeuillets purement silicique de type MFI, *Colloque Groupe Français des Zéolithes (GFZ)*, Ile de Ré, 19-21 march 2014.
- PC32 - A. Astafan, T.J. Daou, L. Pinard, J. Patarin, Y. Pouilloux, C. Bouchy, N. Bats, Influence de la taille des cristaux et de la mise en forme sur les propriétés catalytiques de la zéolithe *BEA, *Colloque Groupe Français des Zéolithes (GFZ)*, Ile de Ré, 19-21 march 2014.

- PC33 - A.Said, T.J. Daou, L. Limousy, P. Dutournie, J. Halawani, J. Toufaily, T. Hamieh, Optimisation d'un protocole de synthèse de films minces de MFI sur support tubulaire macroporeux en alumine : application à la filtration membranaire, *Colloque Groupe Français des Zéolithes (GFZ)*, Ile de Ré, 19-21 march 2014.
- PC34 - A. Ryzhikov, H. Nouali, T.J. Daou, I. Khay, J. Patarin, Influence drastique de la concentration de LiCl sur le comportement du système « zéosil *BEA - solution aqueuse, *Colloque Groupe Français des Zéolithes (GFZ)*, Ile de Ré, 19-21 march 2014.
- PC35 - I. Kabalan, T.J. Daou, B. LEBEAU, M.-B. Fadlallah, J. Toufaily, B. Koubaissy, Synthesis of purely silica MFI-type nanosheets, *6th International FEZA Conference*, Leipzig, Germany, 8-11 september 2014.
- PC36 - A. Ryzhikov, H. Nouali, I. Khay, T.J. Daou, J. Patarin, Drastic influence of the salt concentration on the behavior of LiCl solutions intrusion-extrusion in pure silica *BEA-type zeolite, *6th International FEZA Conference*, Leipzig, Germany, 8-11 september 2014.
- PC37 - A. Ryzhikov, H. Nouali, I. Khay, T.J. Daou, J. Patarin, Energetic performances of pure silica STF, MTT and *STO-type zeolites under high pressure water intrusion, *6th International FEZA Conference*, Leipzig, Germany, 8-11 september 2014.
- PC38 - G. Rioland, S. Albrecht, L. Josien, L. Vidal, T.J. Daou, Influence of the Organosilane Nature and Concentration on the Formation of Hierarchical FAU-Type Zeolite Nanosheets, *6th International FEZA Conference*, Leipzig, Germany, 8-11 september 2014.
- PC39 - A. Astafan, Y. Pouilloux, L. Pinard, T.J. Daou, J. Patarin, C. Bouchy, N. Bats, Towards a new design of "ideal" bifunctional catalyst, *6th International FEZA Conference*, Leipzig, Germany, 8-11 september 2014.
- PC40 - G. Arnold, N. Lauridant, T.J. Daou, D. Faye, M.-H. Tuilier, J. Patarin, Films zéolithiques sur alliage d'aluminium 7075 : Propriétés mécaniques du revêtement et du substrat, *Indentation 2014*, Strasbourg, 10-12 december 2014.
- PC41 - A. Ryzhikov, T.J. Daou, I. Khay, H. Nouali, J. Patarin, Performances énergétiques des zéosils de type STF et MTT par intrusion d'eau à haute pression, *Colloque Groupe Français des Zéolithes (GFZ)*, St-Valéry-sur-Somme, 25-27 march 2015.
- PC42 - M. Ben Abda, O. Schäf, Y. Zerega, L. Bullot, A. Simon-Masseron, T.J. Daou, G. Chaplais, J. Patarin, E. Fiani, L'adsorption sélective de dioxines sur les Faujasites modifiées, *Colloque Groupe Français des Zéolithes (GFZ)*, St-Valéry-sur-Somme, 25-27 march 2015.
- PC43 - A. Astafan, M. Benghalem, T. Belin, Y. Pouilloux, S. Mignard, J. Patarin, N. Bats, C. Bouchy, L. Pinard, T.J. Daou, Transformation de l'éthanol en hydrocarbures sur catalyseurs zéolithiques ; Relation entre propriétés texturales et tolérance au cokage, *Colloque GECat*, Obernai, 26-29 may 2015.
- PC44 - A. Said, L. Limousy, J. Halwani, J. Toufaily, T. Hamieh, P. Dutournié, T.J. Daou, Synthèse de films minces zéolithiques sur des supports tubulaire macroporeux en alumine : application à la filtration membranaire, *Journée de l'école doctorale*, Mulhouse, 2 july 2015.
- PC45 - I. Kabalan, B. Lebeau, M.-B. Fadlallah, J. Toufaily, T. Hamieh, J.P. Bellat, T.J. Daou, Synthèse de matériaux nanoporeux pour la décontamination moléculaire, *Journée de l'école doctorale*, Mulhouse, 2 july 2015.
- PC46 - G. Rioland, T.J. Daou, H. Nouali, D. Faye, J. Patarin, Elaboration de matériaux zéolithiques pour la contamination moléculaire en orbite, *15^{ème} édition des journées CNES jeunes chercheurs*, Cité de l'espace, Toulouse, 14-16 october 2015.
- PC47 - L. Bullot, A. Simon-Masseron, T.J. Daou, G. Chaplais, J. Patarin, I. Deroche, E. Fiani, Zéolithes et MOFs : matériaux pour l'adsorption du 1,2-dichlorobenzène présent dans les émissions d'incinération de déchets, *Colloque Groupe Français des Zéolithes (GFZ)*, Montagnac, 30 march - 1 april 2016.

- PC48 - L. Pinard, A. Astafan, M.A. Benghalem, Y. Pouilloux, J. Patarin, N. Bats, C. Bouchy, **T.J. Daou**, Advantages and disadvantages of the extreme downsizing of *BEA zeolite crystal on its catalytic performances, *French Conference on Catalysis - FC Cat 1*, Frejus, 23-27 may 2016.
- PC49 - A. Ryzhikov, **T.J. Daou**, Influence of the intruded liquid nature on the energetic performances of zeosils, *The 18th International Zeolite Conference*, Rio de Janeiro, Brazil, 19-24 june 2016.
- PC50 - L. Bullot, A. Simon-Masseron, **T.J. Daou**, G. Chaplais, J. Patarin, I. Deroche, E. Fiani, Adsorption du 1,2-dichlorobenzène sur zéolithe NaX et MOF MIL-101(Cr) pour la dépollution des émissions d'usines d'incinération de déchets, *Journée de l'école doctorale*, Mulhouse, 12 july 2016.
- PC51 - L. Bullot, A. Simon-Masseron, G. Chaplais, **T.J. Daou**, M. Ben Abda, Y. Zerega, O. Schäf, C. Coste, S. Reynaud, S. Defour, E. Fiani, J. Patarin, Adsorption of dioxins and 1,2-dichlorobenzene issued from waste incineration into zeolites and Metal-Organic Frameworks (MOFs) materials, *Dioxine 2016 FIRENZE*, Florence Italy, 28 august - 2 september 2016.
- PC52 - E. Fawaz, H. Nouali, I. Deroche, D. Salam, S. Rigolet, **T.J. Daou**, Synthèse de Microsphères de Zéolithes ZK-4 pour la Décontamination Moléculaire, *GFZ 2017*, Marne la Vallée, 22-24 mars 2017.
- PC53 - L. Ronchi, A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Systèmes lyophobes hétérogènes basés sur la zéolithe purement silicique de type ITH: intrusion à haute pression d'eau et de solutions d'électrolytes, *GFZ 2017*, Marne la Vallée, 22-24 mars 2017.
- PC54 - A. Ryzhikov, H. Nouali, **T.J. Daou**, J. Patarin, Influence de la nature de l'anion et de la concentration sur l'intrusion-extrusion de solutions d'électrolytes dans la silicalite-1, *GFZ 2017*, Marne la Vallée, 22-24 mars 2017.
- PC55 - L. El Hanache, B. Lebeau, J. Toufaily, T. Hamieh, **T.J. Daou**, Synthèse de nanomatériaux hiérarchisés de type *BEA et MFI pour le piégeage des nitrates dans l'eau, *SCF Grand Est 8*, Mulhouse, 11-12 may 2017.
- PC56 - I. Deroche, **T.J. Daou**, B. Coasne, Phase Diagram for Adsorption in Purely Siliceous Zeolites, *COPS XI*, Marseille, 14-17 may 2017.
- PC57 - M. Raad, A. Astafan, S. Hamieh, J. Toufaily, T. Hamieh, **T.J. Daou**, L. Pinard, Impact de la hiérarchisation sur les performances des catalyseurs Ga/ZSM-5 dans la réaction d'aromatization du propane, *GECA*T, Ile d'Oléron, 29 may - 1 june 2017.
- PC58 - M. Borel, M. Dodin, **T.J. Daou**, N. Bats, J. Patarin, Synthèse de nanocristaux de zéolithe Y en absence d'agent organique structurant, Journée Doctorale Sciences Exactes de l'Antenne UHA du Collège Doctoral de Site - Université de Strasbourg, Mulhouse (France), 2 june 2017.
- PC59 - L. Ronchi, T. J. Daou, J. Patarin and A. Ryzhikov, Synthesis of hydrophobic zeolites for energetic applications, Journée Doctorale Sciences Exactes de l'Antenne UHA du Collège Doctoral de Site - Université de Strasbourg, Mulhouse (France), 2 june 2017.
- PC60- M. Borel, M. Dodin, **T.J. Daou**, N. Bats, J. Patarin, Organic-free synthesis of high-silica zeolite Y nanocrystals and study of the protonated form, *7th International FEZA Conference*, Sofia, Bulgaria, 3-7 july 2017.
- PC61 - I. Kabalan, H. Nouali, B. Lebeau, J.P. Bellat, **T.J. Daou**, New generation of nanoporous material for VOC adsorption, *7th International FEZA Conference*, Sofia, Bulgaria, 3-7 july 2017.
- PC62 - A. Ryzhikov, L. Ronchi, H. Nouali, **T.J. Daou**, J. Patarin, Influence of the intruded liquid nature on the behavior and energetic performances of zeosil, *7th International FEZA Conference*, Sofia, Bulgaria, 3-7 july 2017.
- PC63 - M. Berger, P. Gaudin, P. Fioux, H. Nouali, S. Dorge, D. Habermacher, E. Fiani, M. Vierling, M. Molière, J.F. Brilhac, J. Patarin, **T.J. Daou**, Copper-based Organised Mesoporous Silica for SO_x trapping applications in industrial flue gas streams, *7th International FEZA Conference*, Sofia, Bulgaria, 3-7 july 2017.

PC64 - C. Miranda, J. Urresta, A. Astafan, P. Gaudin, T.J. Daou, Y. Pouilloux, L. Pinard, Influence of crystal size of *BEA and MFI zeolite on the glycerol etherification with *tert*-butyl alcohol, *Europacat 2017*, Florence, Italy, 27-31 august **2017**.

PC65 - M. Raad, A. Astafan, S. Hamieh, J. Toufaily, T. Hamieh, T.J. Daou, L. Pinard, Propane aromatization on different types of Ga/MFI catalysts: Highlights on catalytic performances of hierarchical zeolite, *Europacat 2017*, Florence, Italy, 27-31 august **2017**.

PC66 - L. El Hanache, B. Lebeau, H. Nouali, J. Toufaily, T. Hamieh, T.J. Daou, Synthèse de nanomatériaux hiérarchisés de type *BEA pour la décontamination moléculaire dans l'eau, *7^{èmes} journées annuelles de l'Association Française de l'Adsorption (AFA)*, Marseille (France), 25-26 january **2018**.

PC67 - T.J. Daou, A. Astafan, M. A. Benghalem, L. Michelin, S. Rigolet, J. Patarin, L. Pinard, Synthesis of Hierarchical ZSM-48 Nano-Zeolites, *1st GFZ International Conference*, Cabourg (France), 26-29 march **2018**.

PC68 - L. El Hanache, B. Lebeau, J. Toufaily, T. Hamieh, T.J. Daou, Performance of surfactant-modified *BEA-type zeolite nanosponges for the removal of nitrate in contaminated water, *1st GFZ International Conference*, Cabourg (France), 26-29 march **2018**.

PC69 - L. El Hanache, B. Lebeau, J. Toufaily, T. Hamieh, T.J. Daou, Nouvelle génération de nanoporeux hiérarchisés pour le piégeage des nitrates dans l'eau contaminée, *Journée Doctorale Sciences Exactes de l'Antenne UHA du Collège Doctoral de Site - Université de Strasbourg, Mulhouse (France)*, 1 june **2018**.