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Doctor of Philosophy in Chemistry and Materials

40 publications; h-index: 29 – 2 patents

PROFESSIONAL EXPERIENCES

2015 – Present **Post-Doctoral Researcher**

Supramolecular NanoChemistry & Materials research group

Barcelona Institute of Science and Technology (BIST), Barcelona, Spain

Institut Catala de Nanociencia i Nanotecnologia (ICN2) Bellaterra, Spain

- Development of new porous materials (computational design, synthesis, characterization of properties)
- Design and development of *in-situ* X-Ray diffraction / gas sorption cell (collaboration with Alba synchrotron)
- Responsible for gas sorption equipment (N₂, CO₂, H₂, Ar, CH₄)
- International and national academic collaborations: Cambridge (UK), Madrid, Alicante
- Train, guide and supervise PhD students

Principal Investigator: Prof. Daniel Maspoch

2011 – 2014 **Post-Doctoral Researcher**

Functional Materials Design, Discovery & Development research group

King Abdullah University of Science and Technology (KAUST), Saudi Arabia

- Design Metal-Organic Frameworks (MOFs) and Covalent Organic Frameworks (COFs) materials, conduct their synthesis, characterization and study their gas storage/separation properties.
- Train, guide and supervise Master/PhD students, newly arrived Post-Docs; review Master thesis and presentations.
- Assist PhD students/Post-docs in manuscript preparation: suggest general outlines and improvements
- Collaborate with academic research group (M.S. Lah, Korea) and coordinate review publication project
- Collaborate with industry (Saudi Aramco), prepare reports and present results for scientific committee
- Monitor and maintain the lab chemicals and consumables stock (placing orders for the group)
- Develop processes and communication in the lab/group: initiate/improve the use of internal files and databases (structure list, online equipment schedule, chemical ordering process, Sharepoint, etc.)
- Undertake the [group website](#) improvement project (updates publications, news, highlights, etc.) and coordinate with IT department
- Initiate and lead scientific visualization projects: Develop [videos](#); design journal front covers and art picture for [media highlights](#), figures for publication, artworks; prepare Powerpoints for PI and research scientists, etc.
- Share visualization skills, scientific knowledge: give training, lectures, tutoring sessions; review drafts, etc.

Principal Investigator: Prof. Mohamed Eddaoudi

2007 – 2011 **Ph.D. project: "Synthesis, functionalization and adsorption properties of new hybrid porous solids"**

Porous Solids Group, Université de Versailles - Institut Lavoisier, France

- Synthesized, functionalized and characterized novel flexible MOFs (M^{III}) and tetravalent MOFs (Ti, Zr, Hf)
- Collaborated with academics: collected, refined and interpreted data from *in-situ* X-ray powder diffraction coupled with gas sorption (Synchrotron experiments, ESRF - France)
- Collaborated with industry (Total, IFP), prepared reports and presented results to scientific committee

- Operated the high pressure gravimetric gas sorption equipment (Hiden IGA), including data collection for collaborators (for example: Prof. Stock, Germany)
- Oversaw Master student projects
- Initiated and developed the use of internal shared files (online equipment schedule, shared folders, etc.)

PhD Advisor: *Dr. Christian Serre*

2007 **Master project:** "Rare earth hexanuclear compounds as precursors for new materials"
Institut National des Sciences Appliquées (INSA), Rennes, France

- Synthesis and characterization of rare earth based inorganic materials and MOFs

Principal Investigator: *Prof. Olivier Guillou*

SCIENTIFIC PROJECTS & FUNDINGS (main proposer)

Fellowships:

-Beatriu de Pinós fellowship, *nanoMOF@INP*, 90 k€/2 years (2015-2017). Ref. 2014 BP-B 00155

-Juan de la Cierva fellowship, ranked 1st (June 2015, declined)

Synchrotron Project:

-*Interdigitated flexible Metal-Organic Frameworks for gas separation applications*, rated A+ at ALBA synchrotron (MSPD beamline, Oct. 2017). Ref. 2017022021

SKILLS AND EXPERTISES

Fields of Expertise: Inorganic chemistry, porous materials (MOFs, COFs, etc.), crystalline materials, topology and materials design, sorption properties (gas storage, separation, etc.)

Scientific expert and Peer Reviewer:

- External evaluator for ICMA-B-CSIC "Frontiers Interdisciplinary Projects" 2016 call (Spain)
- Scientific reviewer for "Cy-Tera and Eastern Mediterranean Production" call 2017 (Greece).
- Peer reviewer for J. Am. Chem. Soc. (IF: 13.858); J. Mater. Chem. A (IF: 8.867); RSC advances (IF: 3.108)

Analysis - Characterization:

- X-ray diffraction (powder and single crystal) phase analysis, cell indexing, refinement and structure solution
- Structure topology: topology analysis (TOPOS), structure simulation (forcite)
- Gas sorption properties: collect analyse and interpret gas sorption isotherm (Belsorp, Micromeritics, Quantachrome)
- Other: supercritical CO₂ activation, thermogravimetric analysis, infrared spectroscopy, etc.

Trainings:

- *in-situ* infrared spectroscopy training placement (2009, University of Caen, Dr. Vimont, France)
- H₂S sorption training placement (2010, University of Mons, Prof. De Weireld, Belgium)
- **TOPOS school** (topology of periodic nets) workshop by Prof. Michael O'Keeffe (2014)

Administration, Scientific Visualization: Student guidance and supervision; Preparation and review of manuscript, powerpoint, reports, etc. **Videos creation**, POV-Ray imaging, etc.

Language skills: English (fluent), French (native language), Spanish (advanced)

Computer skills:

- Specific software : Expo and FullProf Suite (structure solution and refinement from powder diffraction), Diamond, Materials Studio (including forcite tool), TOPOS, NonOrthoSA (surface area simulation), APEX, Avizo (scientific visualization)
- Administrator of the FMD³ group website (updates, news, highlights, publications, etc.); knowledge in HTML language
- General: SAP, Sharepoint, Origin, Microsoft Office Suite, Photoshop, Illustrator, Lightroom, etc.

EDUCATIONAL BACKGROUND

- 2007-2011** Ph.D. in Chemistry & Materials - Metal-Organic Frameworks Chemistry
Université de Versailles – Institut Lavoisier, France Master of Science in Chemistry, specializing in
- 2005-2007** Solid State Chemistry and Materials
Université de Rennes 1, France
Indian Institute of Science (IISc) – Materials Research Centre, Bangalore, India (internship, 2006)
- 2002-2005** Bachelor of Science in the Physics and Chemistry of Materials
Université de Valenciennes, France | Université de Rennes 1, France

ADDITIONAL EXPERIENCES

Elected by the Dean of the Physical Science and Engineering division to be part of the “post-doc task force” committee (2014)

Gave Practical Chemistry courses: Faculté de Médecine, Université de Paris V, Paris, France (2009-2010)

Offered Chemistry, Physics & Mathematics private tuitions: Acadomia tuition center, Rennes, France (2006-2007)

Travels and Photography: Asia (India, Burma, Malaysia...), Middle East (Saudi Arabia, UAE, Oman...), etc.
Invited for travel photography exhibitions (France); awarded with prizes (Saudi national day art competition 2013 & 2014)

ACCEPTED PUBLICATIONS (h-index: 29 - total citations >3300, November 2017)

40. Z. Chen, Ł.J. Weseliński, K. Adil, Y. Belmabkhout, A. Shkurenko, H. Jiang, P.M. Bhatt, V. Guillerm, E. Dauzon, D.X. Xue, M. O’Keeffe and M. Eddaoudi
*Applying the Power of Reticular Chemistry to Finding the Missing *al*b-MOF Platform Based on the (6, 12)-Coordinated Edge-Transitive Net*
Journal of the American Chemical Society, **2017**, 139, 3265 – 3274
39. D. Rodríguez-San-Miguel, A. Yazdi, V. Guillerm, J. Pérez-Carvajal, V. Puentes, D. Maspoch and F. Zamora
Confining functional nanoparticles into colloidal imine-based COF spheres by a sequential encapsulation-crystallization method
Chemistry – A European Journal, **2017**, 23, 8623 – 8627
38. V. Guillerm, L. Garzón Tovar, A. Yazdi, I. Imaz, J. Juanhuix and D. Maspoch
Continuous one-step synthesis of porous M-XF₆-based metal-organic and hydrogen-bonded frameworks
Chemistry – A European Journal, **2017**, 23, 6829 – 6835
37. S. Rodríguez-Hermida, M.Y. Tsang, C. Vignatti, K.C. Stylianou, V. Guillerm, J. Pérez-Carvajal, F. Teixidor, C. Viñas, D. Choquesillo-Lazarte, C. Verdugo-Escamilla, I. Peral, J. Juanhuix, A. Verdaguer, I. Imaz, D. Maspoch and J. Giner Planas
Switchable surface hydrophobicity–hydrophilicity of a metal–organic framework
Angewandte Chemie International Edition, **2016**, 55, 16049 – 16053
Angewandte Chemie, **2016**, 128, 16283 – 16287
36. V. Safarifard, S. Rodríguez-Hermida, V. Guillerm, I. Imaz, M. Bigdeli, A. Azhdari Tehrani, J. Juanhuix, A. Morsali, M.E. Casco, J. Silvestre-Albero, E.V. Ramos-Fernandez and D. Maspoch
Influence of the amide groups in the CO₂/N₂ selectivity of a series of isorecticular, interpenetrated metal–organic frameworks
Cryst. Growth Des., **2016**, 16, 6016 – 6023
35. P.G. Yot, K. Yang, V. Guillerm, F. Ragon, V. Dmitriev, P. Parisiades, E. Elkaim, T. Devic, P. Horcajada, C. Serre, N. Stock, J.P.S. Mowat, P.A. Wright, G. Férey and G. Maurin
Impact of the Metal Centre and Functionalization on the Mechanical Behaviour of MIL-53 Metal–Organic Frameworks
European Journal of Inorganic Chemistry, **2016**, 27, 4424 – 4429
34. Y. Belmabkhout, V. Guillerm and M. Eddaoudi
Low concentration CO₂ capture using physical adsorbents: Are metal–organic frameworks becoming the new benchmark materials?
Chemical Engineering Journal, **2016**, 296, 386–397
33. C. Avci, J. Ariñez-Soriano, A. Carné-Sánchez, V. Guillerm, C. Carbonell, I. Imaz and D. Maspoch
Post-synthetic anisotropic wet-chemical etching of colloidal sodalite ZIF crystals
Angewandte Chemie International Edition, **2015**, 54, 14417–14421
Angew. Chem., **2015**, 127: 14625–14629

32. D. Alezi, A.M. P. Peedikakkal, Ł.J. Weseliński, V. Guillerm, Y. Belmabkhout, A.J. Cairns, Z. Chen, Ł. Wojtas and M. Eddaoudi
Quest for highly connected metal-organic framework platforms: rare-earth polynuclear clusters versatility meets net topology needs
Journal of the American Chemical Society, **2015**, 137, 5421 – 5430
31. F. Ragon, B. Campo, Q. Yang, C. Martineau, A.D. Wiersum, A.B. Lago, V. Guillerm, C. Hemsley, J.F. Eubank, M. Vishnuvarthan, F. Taulelle, P. Horcajada, A. Vimont, P.L. Llewellyn, M. Daturi, S. Devautour-Vinot, G. Maurin, C. Serre, T. Devic and G. Clet
Acid-functionalized UiO-66(Zr) MOFs and their evolution after intra-framework cross-linking: structural features and sorption properties
Journal of Materials Chemistry A, **2015**, 3, 3294 – 3309; Highlighted as **J. Mater. Chem. A inside front cover**
30. M. Eddaoudi, D. Sava, J.F. Eubank, K. Adil and V. Guillerm
Zeolite-like metal-organic frameworks (ZMOFs): Design, synthesis, and properties
Chemical Society Reviews, **2015**, 44, 228 – 249
29. N. Ramsahye, J. Gao, H. Jobic, P.L. Llewellyn, Q. Yang, A.D. Wiersum, M. Koza, V. Guillerm, C. Serre, C. Zhong and G. Maurin
Adsorption and diffusion of light hydrocarbons in UiO-66(Zr): a combination of experimental and modelling tools
Journal of Physical Chemistry C, **2014**, 118, 27470 – 27482
28. Y. Belmabkhout, J. F. Eubank, H. Mouttaki, Z. Chen, V. Guillerm and M. Eddaoudi
Effect of pendant isophthalic acid moieties on the adsorption properties of light hydrocarbons in HKUST-1-like tbo-MOFs: Application to methane purification and storage
RSC Advances, **2014**, 4, 63855 – 63859
27. V. Guillerm, D. Kim, J.F. Eubank, R. Luebke, X. Liu, K. Adil, M.S. Lah and M. Eddaoudi
A supermolecular building approach for the design and construction of Metal-Organic Frameworks
Chemical Society Reviews, **2014**, 43, 6141 – 6172
26. V. Guillerm, Ł.J. Weseliński, Y. Belmabkhout, A.J. Cairns, V. D'Elia, Ł. Wojtas, K. Adil and M. Eddaoudi
Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of Metal-Organic Frameworks
Nature Chemistry, **2014**, 6 (8), 673 – 680; **Highlighted as Nature Chemistry front cover and on Nature Middle East**
25. O. Shekhah, Y. Belmabkhout, Z. Chen, V. Guillerm, A.J. Cairns, K. Adil and M. Eddaoudi
Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture
Nature Communications, **2014**, 5, 4228; **Highlighted on Nature Middle East**
24. V. Guillerm, Ł.J. Weseliński, M. Alkordi, M.I. H. Mohideen, Y. Belmabkhout, A.J. Cairns, and M. Eddaoudi
Porous organic polymers with anchored aldehydes: A new platform for post-synthetic amine functionalization en route for enhanced CO₂ adsorption properties
Chemical Communications, **2014**, 50, 1937 – 1040; **Highlighted as ChemComm front cover**
23. S. Vaesen, V. Guillerm, Q. Yang, A. Wiersum, B. Marszalek, B. Gil, A. Vimont, M. Daturi, T. Devic, P.L. Llewellyn, C. Serre, G. Maurin and G. De Weireld
A robust amino-functionalized titanium (IV) based MOF improved separation of acid gases
Chemical Communications, **2013**, 49, 10082 – 10084
22. F. Salles, H. Jobic, T. Devic, V. Guillerm, C. Serre, M. Koza, G. Férey and G. Maurin
Diffusion of binary CO₂/CH₄ mixtures in the MIL-47(V) and MIL-53(Cr) MOF type solids: a combination of neutron scattering measurements and molecular dynamics simulations
Journal of Physical Chemistry C, **2013**, 117, 11275 – 11284
21. Q. Yang, V. Guillerm, F. Ragon, A.D. Wiersum, P.L. Llewellyn, C. Zhong, T. Devic, C. Serre and G. Maurin
CH₄ storage and CO₂ capture in highly porous zirconium oxide based metal-organic frameworks
Chemical Communications, **2012**, 48, 9831 – 9833
20. V. Guillerm, F. Ragon, M. Dan-Hardi, T. Devic, M. Vishnuvarthan, B. Campo, A. Vimont, G. Clet, Q. Yang, G. Maurin, G. Férey, A. Vittadini, S. Gross and C. Serre
A series of isorecticular, highly stable, porous zirconium oxide based metal-organic frameworks
Angewandte Chemie International Edition, **2012**, 51(37), 9267 – 9271
Angewandte Chemie, **2012**, 124(37), 9401 – 9405; **Selected as hot paper and inside cover**
19. A. Ghoufi, A. Subercaze, Q. Ma, P.G. Yot, I. Puente-Orench, T. Devic, V. Guillerm, C. Zhong, C. Serre, G. Férey and G. Maurin
Comparative guest, thermal, and mechanical breathing of the porous Metal Organic Framework MIL-53(Cr): A computational exploration supported by experiments
Journal of Physical Chemistry C, **2012**, 116, 13289 – 13295

18. S. Devautour-Vinot, G. Maurin, C. Serre, P. Horcajada, D. Paula da Cunha, V. Guillerm, E. de Souza Costa, F. Taulelle and C. Martineau
Structure and dynamics of the functionalized MOF type UiO-66(Zr): NMR and dielectric relaxation spectroscopies coupled with DFT calculations
Chemistry of Materials, **2012**, 24, 2168 – 2177
17. D.I. Kolokolov, A.G. Stepanov, V. Guillerm, C. Serre, B. Frick and H. Jobic
Probing the dynamics of the porous Zr terephthalate UiO-66 framework using ^2H NMR and neutron scattering
Journal of Physical Chemistry C, **2012**, 116, 12131 – 12136
16. G.D. Pirngruber, L. Hamon, S. Bourrelly, P.L. Llewellyn, E. Lenoir, V. Guillerm, C. Serre and T. Devic
A method for screening the potential MOFs as CO_2 adsorbents in Pressure Swing Adsorption processes
Chemistry and Sustainability, Energy and Materials, **2012**, 5, 762 – 776
15. L. Hamon, N. Heymans, P.L. Llewellyn, V. Guillerm, A. Ghoufi, S. Vaesen, G. Maurin, C. Serre, G. De Weireld and G.D. Pirngruber
Separation of CO_2 - CH_4 mixtures in the mesoporous MIL-100(Cr) MOF: Experimental and modeling approaches
Dalton Transactions, **2012**, 41, 4052 – 4059
14. A. D. Wiersum, E. Soubeyrand-Lenoir, Q. Yang, B. Moulin, V. Guillerm, M. Ben Yahia, S. Bourrelly, A. Vimont, S.R. Miller, C. Vagner, M. Daturi, G. Clet, C. Serre, G. Maurin and P. L. Llewellyn
An evaluation of UiO-66 for gas-based applications
Chemistry, An Asian Journal, **2011**, 6, 3270 – 3280
13. Q. Yang, A.D. Wiersum, P.L. Llewellyn, V. Guillerm, C. Serre and G. Maurin
Functionalizing porous zirconium terephthalate UiO-66(Zr) for natural gas upgrading: a computational exploration
Chemical Communications, **2011**, 47, 9603 – 9605
12. Q. Yang, H. Jobic, F. Salles, D. Kolokolov, V. Guillerm, C. Serre and G. Maurin
Probing the dynamics of CO_2 and CH_4 within the porous zirconium terephthalate UiO-66(Zr): A synergic combination of neutron scattering measurements and molecular simulations
Chemistry, A European Journal, **2011**, 17, 8882 – 8889
11. Q. Yang, A.D. Wiersum, H. Jobic, V. Guillerm, C. Serre, P.L. Llewellyn and G. Maurin
Understanding the thermodynamic and kinetic behavior of the CO_2/CH_4 gas mixture within the porous zirconium terephthalate UiO-66(Zr) : A joint experimental and modelling approach
Journal of Physical Chemistry C, **2011**, 115, 13768 – 13774
10. F. Salles, S. Bourrelly, H. Jobic, T. Devic, V. Guillerm, P.L. Llewellyn, C. Serre, G. Férey and G. Maurin
Molecular insight into the adsorption and diffusion of water in the versatile hydrophilic/hydrophobic flexible MIL-53(Cr) MOF
Journal of Physical Chemistry C, **2011**, 115, 10764 – 10776
9. T. Anhfeld, J. Moellmer, V. Guillerm, R. Staudt, C. Serre and N. Stock
High-throughput and time-resolved EDXRD study of the formation of CAU-1-(OH) $_2$ – Microwave and Conventional Heating
Chemistry, A European Journal, **2011**, 17, 6462 – 6468
8. C. Zlotea, D. Phanon, M. Mazaj, D. Heurtaux, V. Guillerm, C. Serre, P. Horcajada, T. Devic, E. Magnier, F. Cuevas, G. Férey, P.L. Llewellyn, and Michel Latroche
Effect on hydrogen sorption properties of NH_2 and CF_3 functionalization of MOFs
Dalton Transactions, **2011**, 40, 4879 – 4881
7. P.S. Barcia, D. Guimaraes, P.A.P. Mendes, J.A.C. Silva, V. Guillerm, H. Chevreau, C. Serre and A.E. Rodrigues
Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66
Microporous & Mesoporous Materials, **2011**, 139, 67 – 73
6. S. Bernt, V. Guillerm, C. Serre and N. Stock
Direct covalent post-synthetic chemical modification of Cr-MIL-101 using nitrating acid
Chemical Communication, **2011**, 47, 2838 - 2840
5. V. Guillerm, S. Gross, C. Serre, T. Devic, M. Bauer and G. Férey
A zirconium methacrylate oxocluster as precursor for the low-temperature synthesis of porous zirconium(IV) dicarboxylates
Chemical Communications, **2010**, 46, 767 – 769
4. D.I. Kolokolov, H. Jobic, A.G. Stepanov, V. Guillerm, T. Devic, C. Serre and G. Férey
Dynamics of benzene rings in MIL-53(Cr) and MIL-47(V) frameworks studied by ^2H NMR
Angewandte Chemie International Edition, **2010**, 49(28), 4791 – 4794
Angewandte Chemie, **2010**, 122(28), 4901 – 4904

3. D.I. Kolokolov, H. Jobic, A.G. Stepanov, M. Plazanet, M. Zbiri, J. Ollivier, V. Guillerm, T. Devic, C. Serre and G. Férey
Comparison of the dynamics of MIL-53(Cr) and MIL-47(V) frameworks using neutron scattering and DFT methods
The European Physical Journal – Special Topics, **2010**, 189, 263 - 271

2. L. Hamon, P.L. Llewellyn, T. Devic, A. Ghoufi, G. Clet, V. Guillerm, G.D. Pirngruber, G. Maurin, C. Serre, G. Driver, W. Van Beek, E. Jolimaître, A. Vimont, M. Daturi and G. Férey
Co-adsorption and separation of CO₂-CH₄ mixtures in the highly flexible MIL-53(Cr) MOF
Journal of the American Chemical Society, **2009**, 131(47), 17490 – 17499

1. G. Calvez, O. Guillou, C. Daiguebonne, P.-E. Car, V. Guillerm, Y. Gerault, F. Le Dret, N. Mahé
Octahedral hexanuclear complexes involving light lanthanide ions
Inorganica Chimica Acta, **2008**, 361, 2349 – 2356

PATENTS

Amine functionalized porous network
US Patent US9663627 B2, Publication Date Mai 30th **2017**

Design, synthesis and characterization of Metal-Organic Frameworks
WO Patent 2015183813 A2, Publication Date Dec 3rd **2015**

CONFERENCES

Julne2017 - Poster presentation @ XXXVI Reunión bienal de la Real Sociedad Española de Química in Sitges (Spain)
Spray-drying method for the one-step synthesis of ready-to-use CO₂ sorbents based on isorecticular M-XF₆-MOFs

October 2014 - Poster presentation @ Applied Functional Materials Chemistry (AFMC) in Kaust (Saudi Arabia)
Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of MOFs

July 2014 – Invited speaker @ ICC-41 in Singapore (Singapore)
Discovery to Design: introduction of (3,18)-connected net as an ideal blueprint for the design of MOFs

May 2014 – Oral presentation & Poster presentation @ COPS-X in Granada (Spain)
Oral: *Effect of isophthalic moieties on the adsorption properties of light hydrocarbons in tbo-MOFs*
Poster: *Anchored aldehydes for amine functionalization: En route for enhanced CO₂ sorption properties*

April 2014 – Poster presentation @ GCR symposium in Kaust (Saudi Arabia)
Anchored aldehydes for amine functionalization: En route for enhanced CO₂ sorption properties

February 2014 – Poster presentation @ Kaust – Sidney symposium in Kaust (Saudi Arabia)
Anchored aldehydes for amine functionalization: En route for enhanced CO₂ sorption properties

January 2014 – Poster presentation @ WEP 2014 in Kaust (Saudi Arabia)
Anchored aldehydes for amine functionalization: En route for enhanced CO₂ sorption properties

September 2010 – Poster presentation @ MOF 2010 in Marseille (France)
Poster 1: *Optical, hydrothermal and mechanical properties of new porous metal(IV) dicarboxylates*
Poster 2: *Functionalized flexible MIL-53(Cr) for the capture of greenhouse gases*

June 2010 – Oral presentation @ CO₂ workshop in Liblice (Czech republic)
Routes to porous metal(IV) carboxylates

April 2009 – Poster + flash oral presentation @ 25th GFZ meeting in Port-Bail (France)
Routes to porous metal(IV) carboxylates

March 2009 – Poster presentation @ Journée des doctorants in Versailles University (France)
Routes to porous metal(IV) carboxylates

October 2008 – Poster presentation @ Cristech in Saint-Pierre d'Oléron (France)
Routes to porous metal(IV) carboxylates

AWARDS

Nov. 2014: Awarded at the [4th IEEE & IET Workshop Week](#): [2nd prize](#) for image visual impact and [3rd prize](#) from the audience. Elected by the Dean of the Physical Science and Engineering division to be part of the “post-doc task force” committee (2014)