

Resume

Associate Professor Manuel GAUDON

PERSONAL INFORMATION:

Date of birth: 04 may 1974; PhD award date: 2002: in Material Sciences (University of Toulouse III)

CURRENT POSITIONS:

Associate Professor of Chemistry,
Université De Bordeaux, CNRS, Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB),
UMR 5026, Pessac, France.

With "Capacity to Manage Research" (**Habilitation à Diriger des Recherches**) (19/12/2012)

INSTITUTIONAL RESPONSIBILITIES:

Deputy President of CNU 33 (University National Council, section n°33 : Material Sciences)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES:

Former member of the SFC (Société Française de Chimie)

EUROPEAN ACTIVITIES:

2016-2018 Coordinator of the Master AMIR (Advanced Materials Innovative Recycling). (Master funded by EIT: European Technological Institute, KIC RawMaterials)

* website: www.amir-master.com

2018-2021 Local coordinator (U. Bordeaux) of the AMIR-Ris Labeled Master (Advanced Materials Innovative Recycling - Regional Incentive Scheme) 2 cohorts of students 2018/2019 and 2020/2021. (Master funded and labeled by EIT: European Technological Institute, KIC RawMaterials)

* see promotional film: <https://www.youtube.com/watch?v=TZysctNVyq8>

PUBLICATIONS AND CITATIONS:

Total publications (92), H-index (25), total citations (2000). (more than 200/year citations since 2018)

PRESENTATIONS:

Invited lectures given in international conferences: EMN Pragues Meeting, Energy Materials and Nanotechnology, June 21-24 2016, Pragues. **WCAM 2017**, Xi'an, (chairman), **2nd International Conference and Exhibition on Materials Science and Chemistry**, July 13-14, 2017 Berlin, Germany, **MRS Fall Meeting** - Boston, Massachusetts, États-Unis (26/11 – 02/12/ 2017), **Nanotechnology 2019**, July 22-24, 2019, Rome, Italy.

Invited lecture given in Colloquia: SARISTU Final Project Meeting & Conference, Moscow – Russia (19-21.05.2015). **Symposium Bordeaux-Kyoto**, acte II. Kyoto, Japan (21-24. 05. 2015). **OKHRA-cnrs spring/fall schools**, (2007, 2013, 2016, 2020), **LAFICS, 3rd Meeting of the Indo-French Laboratory of Solid State Chemistry**, (13-15th March 2006, Bordeaux and 18-21st January 2016, Bangalore (India). **CNRS stand « Couleurs sur Corps »** - Palais Chaillot, Paris (Octobre 2008), **JABC5** : 5^{ème} Journées de l'Association Bordelaise de Cristallographie - Pessac, France (22-23 juin 2011). **EULASUR SUMMER SCHOOL**, Buenos Aires –Argentina, (September 05-09, 2011), **SAINT-GOBAIN** - Centre de Recherche, Aubervilliers, (12 juin 2014).

SELECTED RECENT PUBLICATIONS (2013-2020)

1. Investigation on the coloring and bleaching processes of WO_{3-x} photochromic thin films, Bourdin, M., Salek, G., Fargues, A., ...Cardinal, T., Gaudon, M., Journal of Materials Chemistry C, 2020, 8(27), pp. 9410-9421

2. Nanoparticles (NPs) of WO_{3-x} compounds by polyol route with enhanced photochromic properties, Bourdin, M., Gaudon, M., Weill, F., ...Messaddeq, Y., Cardinal, T., *Nanomaterials*, 2019, 9(11), 1555
3. Mo addition for improved electrochromic properties of V_2O_5 thick films, Mjejri, I., Gaudon, M., Rougier, A. *Solar Energy Materials and Solar Cells*, 2019, 198, pp. 19-25
4. Tailoring the Chemical Composition of LiMPO_4 (M = Mg, Co, Ni) Orthophosphates to Design New Inorganic Pigments from Magenta to Yellow Hue, Serment, B., Corucho, L., Demourgues, A., ...Cloutet, E., Gaudon, M. *Inorganic Chemistry*, 2019, 58(11), pp. 7499-7510
5. Geometric considerations of the monoclinic-rutile structural transition in VO_2 , Guan, S., Rougier, A., Suchomel, M.R., ...Bodiang, K., Gaudon, M. *Dalton Transactions*, 2019, 48(25), pp. 9260-9265
6. Two-Step Synthesis of VO_2 (M) with Tuned Crystallinity, Guan, S., Rougier, A., Viraphong, O., ...Penin, N., Gaudon, M., *Inorganic Chemistry*, 2018, 57(15), pp. 8857-8865
7. Low-Cost and Facile Synthesis of the Vanadium Oxides V_2O_3 , VO_2 , and V_2O_5 and Their Magnetic, Thermochromic and Electrochromic Properties, Mjejri, I., Rougier, A., Gaudon, M., *Inorganic Chemistry*, 2017, 56(3), pp. 1734-1741
8. Phase transitions in $\text{Mn}(\text{Mo}_{1-x}\text{W}_x)\text{O}_4$ oxides under the effect of high pressure and temperature, Blanco-Gutierrez, V., Demourgues, A., Lebreau, E., Gaudon, M. *Physica Status Solidi (B) Basic Research*, 2016, 253(10), pp. 2043-2048
9. Visible-transparent and UV/IR-opaque colloidal dispersions of Ga-doped zinc oxide nanoparticles, Trenque, I., Gaudon, M., Duguet, E., Mornet, S., *New Journal of Chemistry*, 2016, 40(8), pp. 7204-7209
10. New insights into crystallite size and cell parameters correlation for ZnO nanoparticles obtained from polyol-mediated synthesis, Trenque, I., Mornet, S., Duguet, E., Gaudon, M. *Inorganic Chemistry*, 2013, 52(21), pp. 12811-12817