



## ARTIPHYCTION

Project full title: **Fully artificial photo-electrochemical device for low temperature hydrogen production**

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## Dissemination

Publications
S. Hernández, Gianluca Gerardi, Katarzyna Bejtka, Alberto Fina and Nunzio Russo, "Evaluation of the charge transfer kinetics of spin-coated BiVO <sub>4</sub> thin films for sun-driven water photoelectrolysis", <i>Appl. Cat. B: Environ.</i> <b>2016</b> , 190, 66-74, DOI: <a href="http://dx.doi.org/10.1016/j.apcatb.2016.02.059">http://dx.doi.org/10.1016/j.apcatb.2016.02.059</a> .
Nicolas Kaeffer, Adina Morozan, Jennifer Fize, Eugenie Martinez, Laure Guetaz, Vincent Artero*, "Hydrogen Evolution Molecular Catalysis: Keeping Benchmarking away from the Dark Side", <i>submitted for publication to J. Am. Chem. Soc.</i>
Nicolas Queyriaux, Nicolas Kaeffer, Adina Morozan, Murielle Chavarot-Kerlidou, Vincent Artero*, "Molecular cathode and photocathode materials for hydrogen evolution in photoelectrochemical devices", <i>J. Photochem. Photobiol. C</i> , <b>2015</b> 25, 90-105. <a href="http://dx.doi.org/10.1016/j.jphotochemrev.2015.08.001">doi:10.1016/j.jphotochemrev.2015.08.001</a>
C. J. Wood, G. H. Summers, C. Clark, N. Kaeffer, M. Brautigam, L. Roberta Carbone, L. D'Amario, K. Fan, Y. Farré, S. Narbey, F. Oswald, L. A. Stevens, M. R. Hall, C. E. Snape, B. Dietzek, D. Dini, L. Hammarström, Y. Pellegrin, F. Odobel, L. Sun, V. Artero, E. A. Gibson*, "A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion", <i>Phys. Chem. Chem. Phys.</i> , <b>2016</b> , DOI: <a href="http://dx.doi.org/10.1039/C5CP05326A">http://dx.doi.org/10.1039/C5CP05326A</a> . <b>OPEN ACCESS</b> .
N. Kaeffer, A. Morozan, V. Artero*, "Oxygen Tolerance of a Molecular Engineered Cathode for Hydrogen Evolution Based on a Cobalt Diimine-Dioxime Catalyst", <i>J Phys. Chem. B</i> , <b>2015</b> , 119 (43), 13707–13713, DOI: <a href="http://dx.doi.org/10.1021/acs.jpcc.5b03136">http://dx.doi.org/10.1021/acs.jpcc.5b03136</a> .
A.S. Gliozzi, S. Hernández, A.L. Alexe-Ionescu, G. Saracco, G. Barbero, "A model for electrode effects based on adsorption theory", <i>Electrochimica Acta</i> , <b>2015</b> , 178, 280-286. <a href="http://dx.doi.org/10.1016/j.electacta.2015.07.043">http://dx.doi.org/10.1016/j.electacta.2015.07.043</a> .
C. Ottone, M. Armandi, S. Hernández, S. Bensaid, M. Fontana, C. F. Pirri, G. Saracco, E. Garrone and B. Bonelli, "Effect of surface area on the rate of photocatalytic water oxidation as promoted by different manganese oxides", <i>Chemical Engineering Journal</i> , <b>2015</b> , 278, 36-45, <a href="http://dx.doi.org/10.1016/j.cej.2015.01.014">http://dx.doi.org/10.1016/j.cej.2015.01.014</a> .
D. Hidalgo, S. Bocchini, M. Fontana, G. Saracco and S. Hernandez, "Green and low-cost synthesis of PANI-TiO <sub>2</sub> nanocomposite mesoporous films for photoelectrochemical water splitting", <i>RSC Advances</i> , <b>2015</b> , 5, 49429-49438. <a href="http://dx.doi.org/10.1039/C5RA06734K">http://dx.doi.org/10.1039/C5RA06734K</a> . <b>OPEN ACCESS</b> .
S. Hernandez, D. Hidalgo, A. Sacco, A. Chiodoni, A. Lamberti, V. Cauda, E. Tresso and G. Saracco, "Comparison of photocatalytic and transport properties of TiO <sub>2</sub> and ZnO nanostructures for solar-driven water splitting", <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 7775-7786. <a href="http://dx.doi.org/10.1039/C4CP05857G">http://dx.doi.org/10.1039/C4CP05857G</a> . <b>OPEN ACCESS</b> .
S. Hernández, G. Barbero, G. Saracco and A. L. Alexe-Ionescu, "Considerations on Oxygen Bubble Formation and Evolution on BiVO <sub>4</sub> Porous Anodes Used in Water Splitting Photoelectrochemical Cells", <i>The Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9916-9925. <a href="http://dx.doi.org/10.1021/acs.jpcc.5b01635">http://dx.doi.org/10.1021/acs.jpcc.5b01635</a>
D. Hidalgo, R. Messina, A. Sacco, D. Manfredi, S. Vankova, E. Garrone, G. Saracco and S. Hernández, "Thick mesoporous TiO <sub>2</sub> films through a sol-gel method involving a non-ionic surfactant: Characterization and enhanced performance for water photo-electrolysis", <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 21512–21522. <a href="http://dx.doi.org/10.1016/j.ijhydene.2014.02.163">http://dx.doi.org/10.1016/j.ijhydene.2014.02.163</a>
S. Hernández, M. Tortello, A. Sacco, M. Quaglio, T. Meyer, S. Bianco, G. Saracco, C. F. Pirri and E. Tresso, "New Transparent Laser-Drilled Fluorine-doped Tin Oxide covered Quartz Electrodes for Photo-Electrochemical Water Splitting", <i>Electrochimica Acta</i> , <b>2014</b> , 131, 184-194. <a href="http://dx.doi.org/10.1016/j.electacta.2014.01.037">http://dx.doi.org/10.1016/j.electacta.2014.01.037</a>

<p>Hernández S, Thalluri SM, Sacco A, Bensaid S, Saracco G, Russo N. "Photo-catalytic activity of BiVO<sub>4</sub> thin-film electrodes for solar-driven water splitting". <i>Applied Catalysis A: General</i>. <b>2015</b>, 504, 266-271.  <a href="http://dx.doi.org/10.1016/j.apcata.2015.01.019">http://dx.doi.org/10.1016/j.apcata.2015.01.019</a></p>
<p>Vincent Artero, Jean-Michel Savéant, Toward the Rational Benchmarking of Homogeneous H<sub>2</sub>-Evolving Catalysts, <i>Energy Environ. Sci.</i>, <b>2014</b>, 7, 3808-3814. DOI: 10.1039/C4EE01709A</p>
<p>A. Bhattacharjee, E. S. Andréiadis, M. Chavarot-Kerlidou, M. Fontecave, M. J. Field*, V. Artero*, A Computational Study of the Mechanism of Hydrogen Evolution by Cobalt(Diimine-Dioxime) Catalysts, <i>Chem. Eur. J.</i> <b>2013</b>, 19, 15166 – 15174. DOI: 10.1002/chem.201301860</p>
<p><b>Presentations at conferences</b></p>
<p><b>Oral communications</b></p>
<p>G. Saracco, "Towards a solar-driven world.wide green chemistry web", 3rd SINCHEM Winter School, February 15-17, 2016, Bologna, Italy.</p>
<p>N. Kaeffer, R. Brisse, J. Massin, A. Morozan, C. Windle, B. Jusselme, M. Chavarot-Kerlidou, V. Artero "Toward the construction of fully molecular photocathodes for hydrogen evolution" Gordon Research Seminar on Renewable Energy: Solar Fuels 27-28 February 2016, Borgo, Italy.</p>
<p><u>Hernández S.</u>, Russo N., Saracco, G. (Invited Talk), "Development of BiVO<sub>4</sub>-based photoanodes for a sun-driven water-splitting device", Energy Materials Nanotechnologies (EMN) Meeting on Photocatalysis, 21-24 November 2015, Las Vegas, USA.</p>
<p><u>Hernández S.</u>, Bensaid S., Russo N., Saracco, G., "Comparison of catalytic and photocatalytic water oxidation materials through the reaction kinetics in a three-phases bubbling reactor", European Meeting on Environmental Chemistry (EMEC16), 30 November – 3 December, 2015, Turin, Italy. <a href="http://www.emec16.com/index.php">http://www.emec16.com/index.php</a></p>
<p><u>Hernández S.</u>, Bensaid S., Ottone C., Thalluri M.S., Armandi M., Bonelli B., Russo N., Garrone E., Saracco G. "Comparison of catalytic and photocatalytic water oxidation materials through the reaction kinetics in a three-phases bubbling reactor", Catalysis for Renewable Sources: fuel, energy, chemicals, September 6-11, 2015, Catania, Sicily, Italy. <a href="http://conf.nsc.ru/CRS3">http://conf.nsc.ru/CRS3</a></p>
<p>R. Brisse, N. Kaeffer, V. Artero, B. Geffroy, T. Gustavsson and B. Jusselme, "Ink-jet printing NiO for efficient p-type and tandem DSSC: An illustration through a yellow to blue series of new push-pull dyes", SCF 2015- Lille (France), 4 - 9 July 2015.</p>
<p>T. Bourgeteau, D. Tondelier, B. Geffroy, V. Artero, B. Jusselme "Photocathodes based on organic semiconductors coupled to a MoS<sub>3</sub> catalyst for solar hydrogen production", 24 April-1 May 2015, International Solar Fuel conference (ISF-1 Young satellite meeting), Uppsala, Sweden</p>
<p>T. Bourgeteau, B. Geffroy, D. Tondelier, V. Artero, B. Jusselme. "Photocathodes based on organic semiconductors coupled to a MoS<sub>3</sub> catalyst for solar hydrogen production", Oral, Conférence National, Science et Technology des Systèmes pi-Conjugués (SPIC), Angers, 12-16/10/2015.</p>
<p>B. Jusselme, (Invited talk), Photocathodes based on hybrid materials, Workshop on Future Low and Zero Carbon Energy, Thessaloniki – Greece – 25-26/06/2015.</p>
<p>T. Bourgeteau, B. Geffroy, D. Tondelier, V. Artero, B. Jusselme, "A H<sub>2</sub>-evolving photocathode based on P3HT-PCBM bulk heterojunction solar cells and a MoS<sub>3</sub> catalyst", Oral, Conférence Internationale, Solar Fuel 2015, Mallorca, Spain, 10-13/03/2015.</p>
<p>M. Vardavoulas, "Industrial thermal spray coatings for tribological applications. Influence of porosity and nanostructure on wear properties", presented in TURKEYTRIB 15, 1st International Conference on Tribology 7-9 October 2015, Yildiz Technical University, Istanbul, TURKEY.</p>

<p>M. Vardavoulias, "Thermal spray applications in the food industry", presented in the WORKSHOP "Challenges in developing materials for improving process in oil and sugar production", National Technical University Athens, GREECE, 6-8 May 2015.</p>
<p>N. Kaeffer, A. Morozan, M. Chavarot-Kerlidou, V. Artero, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, T.A. Moore, A. L. Moore, D. Gust, "Playing with (photo)cathodes based on cobalt diimine-dioxime complexes towards their integration in device - SOFI-fellow presentation" April 2015, 1st International Solar Fuels Conference: Young Meeting, Uppsala, Sweden.</p>
<p>M. Chavarot-Kerlidou, N. Queyriaux, N. Kaeffer, J. Massin, R. Jane, J. Fize, V. Artero, "Molecular strategy towards the construction of H<sub>2</sub>-evolving photocathodes for water splitting", SCF'15 Chimie et Transition Energétique, 4 – 9 juillet 2015, Lille, France.</p>
<p>V. Artero (Invited talk), "Bioinspired catalytic systems and technological applications of hydrogen", Pacificchem 2015, Honolulu, USA, 14-20 December 2015.</p>
<p>V. Artero (Invited talk), "Molecular H<sub>2</sub>-evolving catalysts with proton relays: Design, mechanistic studies, and benchmarking of catalytic activity", 250th ACS meeting, Boston, USA, 16-20 August 2015</p>
<p>V. Artero (Invited talk), "Biomimetic, bioinspired and biosynthetic H<sub>2</sub>-evolving catalysts", ICBIC XVII, Beijing, China, 20-24 July 2015.</p>
<p>V. Artero (Invited talk), "Molecular H<sub>2</sub>-evolving catalysts: design, benchmarking and system integration", SFN workshop on "Solar Fuels: Moving from Materials to Devices", The Royal Society, London, UK, 7-8 July 2015.</p>
<p>V. Artero (Invited talk), "From bio-inspired catalysts for H<sub>2</sub> evolution to photoelectrode materials", ISF-1 First International conference on Solar fuels, Uppsala, Sweden, April 27- May 1, 2015.</p>
<p>Ottone C., Armandi M., Hernández S., Fontana M., Bensaid S., Garrone E., Bonelli B., "Actual rate of oxygen production of different manganese oxide phases as water oxidation catalysts". 23rd International Symposium on Chemical Reaction Engineering (ISCRE 23), 7-10 September 2014, Bangkok, Thailand. <a href="http://www.iscre23.com/">http://www.iscre23.com/</a></p>
<p>Hidalgo D., Sacco A., Lamberti A., Chiodoni A., Cauda V., Tresso E., Hernández S., "TiO<sub>2</sub> and ZnO nanostructured photoelectrodes for solar-driven water splitting", E-MRS Fall meeting, September 15-18, 2014, Warsaw, Poland, <a href="http://www.emrs-strasbourg.com/">http://www.emrs-strasbourg.com/</a></p>
<p>Hernández S., Bensaid S., Ottone C., Armandi M., Fontana M., Bonelli B., Russo N., Pirri C.F., Saracco G., "Comparison of catalytic and photocatalytic water oxidation materials through the reaction kinetics in a three-phases bubbling reactor", 9th international symposium on CAtalysis in MULTiphase Reactors (CAMURE 2014), December 7-10, Lyon , France. <a href="http://www.camure2014.fr/">http://www.camure2014.fr/</a></p>
<p>V. Artero (Invited talk), "Molecular H<sub>2</sub>-evolving catalysts: design, benchmarking and system integration", International Conference on Artificial Photosynthesis (ICARP2014), Awaji City (Hyogo), Japan, November 24-28th 2014.</p>
<p>V. Artero (Invited talk), "Hydrogen evolution: bioinspired catalysts and artificial hydrogenases", Symposium on Bioinspired solar-energy conversion, 16th International Congress on Photobiology, Cordoba, Argentina, September 8-12th 2014.</p>
<p>Hernández, S. (Invited Seminar), Techniques for functional characterization of photocatalytic materials for Water Splitting, 16h seminar, TEDAT project at ENEA research center, Brindisi (IT), April 2014.</p>
<p>V. Artero (Invited talk), "Hydrogen evolution: bio-inspired catalysts and artificial hydrogenases", EuCheMS Chemistry Congress (ECC5), Istanbul 31 August - 4 September 2014.</p>
<p>V. Artero (Invited), "Hydrogen evolution: bio-inspired catalysts and artificial hydrogenases", 12th European Biological Inorganic Chemistry Conference (EuroBIC-12), Zurich, Switzerland, 24-28 August 2014.</p>

V. Artero (Invited talk), "Cobalt-based catalysts for hydrogen evolution" and "Molecular Catalysis for Water Oxidation and Reduction" Session at the 41st International Conference on Coordination Chemistry (ICCC-41), Singapore, 21-15 July 2014.
T. Bourgeteau, B. Geffroy, D. Tondelier, R. Brisse, C. Laberty-Robert, R. de Bettignies, V. Derycke, V. Artero, S. Palacin, B. Jusselme, "Direct photosensitization of MoS <sub>3</sub> by polymer-fullerene bulk heterojunction solar cells for hydrogen photoproduction", International Displays Research Workshop 2014 10th French-Korean Joint Workshop (École Polytechnique / Kyung Hee University), 20-21 January 2014, Paris, France
T. Bourgeteau, D. Tondelier, T. Cabaret, B. Geffroy, V. Derycke, B. Jusselme, "Hybrid photocathodes for solar hydrogen production: organic photovoltaics as a sensitizer of catalysts for water reduction", ElecMol, 25-29 August 2014, Strasbourg, France
V. Artero (Invited talk), "From bio-inspired catalysts for H <sub>2</sub> evolution to photoelectrode materials", Séminaire invité de l'institut de chimie de Catalogne (ICIQ), Tarragone, Spain, May 15 2015.
V. Artero, "Molecular H <sub>2</sub> -evolving catalysts: design, benchmarking and system integration", International Conference on Artificial Photosynthesis (ICARP2014), Awaji City (Hyogo), Japan, November 24-28 2014.
N. Kaeffer, A. Morozan, M. Chavarot-Kerlidou, V. Artero, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, T.A. Moore, A. L. Moore, D. Gust, "Implementing molecular photo/catalytic components into an overall water-splitting tandem cell", Perspect-H <sub>2</sub> O Supramolecular Photocatalytic Water Splitting COST Action CM1202, Joint Working Group Meeting of Working Groups 3 and 4, Lund, Sweden, October 02-04 2014.
V. Artero, "Toward the rational benchmarking of homogeneous H <sub>2</sub> -evolving catalysts" bimensual JCAP / SOFI videoconference, September 26 2014.
V. Artero, "Hydrogen evolution: bio-inspired catalysts and artificial hydrogenases", 12th European Biological Inorganic Chemistry Conference (EuroBIC-12), Zurich, Switzerland, August 24-28 2014.
V. Artero, "Hydrogen and artificial photosynthesis: from micro-organisms to catalytic nanomaterials", Capita Selecta Lectures of Nanoscience and Nanotechnology, K.U. Leuven (Belgium) & Erasmus Mundus partner universities, April 29 2014.
G. Kastrinaki, E. Daskalos, Ch. Pagkoura, N.D. Vlachos, G. Skevis, A.G. Konstandopoulos, Experimental Characterization and Numerical Simulation of Nano-Structured Conducting Membranes for Hydrogen Production from Water Splitting at Low Temperatures. 10 <sup>th</sup> National Conferences on Renewable Energy Sources, 2014, Thessaloniki, Greece.
N. L. Kaeffer, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, M. Chavarot-Kerlidou, V. Artero, T.A. Moore, A. L. Moore and D. Gust, "Water splitting: from bio-inspiration to system integration", Journées annuelles IMBG, May 22-23 2014, Autrans, France.
V. Artero, Catalytic H <sub>2</sub> evolution : from biomimics to artificial hydrogenases and nanomaterials, Journée de Chimie de Coordination en Rhône-Alpes, April 3 2014, Grenoble, France.
V. Artero, Bioinspired nanocatalysts for water-splitting, Symposium on "Nanotechnology for Sustainable Resources and Environmental Science, ACS Environmental Chemistry Division, 247th ACS National Meeting & Exposition on Chemistry & Materials for Energy, March 16-20 2014, Dallas, USA.
V. Artero, Cobalt-based catalysts for water splitting, Symposium on "Molecular Inorganic Chemistry at the Frontiers of Energy Research", ACS Division of Inorganic Chemistry, 247th ACS National Meeting & Exposition on Chemistry & Materials for Energy, 16-March 20 2014, Dallas, USA.
Romain Brisse, Nicolas Kaeffer, Serge Palacin, Vincent Artero and Bruno Jusselme. Synthesis of organic push-pull compounds for the sensitization of p-type oxides. Inverted Grätzel Solar cell. Oral Communication. 3rd International Conference on Clean and Green Energy (ICCGE 2014), 19-21 February 2014, Singapore, China.

V. Artero, Biomimetic, bioinspired and biosynthetic catalysts for water-splitting, International Conference for Hydrogen Production (ICH <sub>2</sub> P 2014), University of Kyushu, February 2-5 2014, Fukuoka, Japan.
V. Artero, Cobalt-based catalysts for electrocatalytic water splitting, invited lecture in the Department of Chemistry, Kyushu University, February 5 2014, Japan.
V. Artero, Biomimetic, bioinspired and biosynthetic catalysts for water-splitting, invited lecture in the Department of Chemistry, University of Nagoya, January 30 2014, Japan.
T. Bourgeteau, D. Tondelier, B. Geffroy, R. Brisse, C. Laberty-Robert, S. Campidelli, R. de Bettignies, V. Artero, S. Palacin, B. Jusselme, "MNPC (Matériaux et Nanostructures Pi-Conjugués), Couplage direct OPV-catalyseur : vers le stockage de l'énergie solaire sous forme chimique", Annecy, MNPC (Matériaux et Nanostructures Pi-Conjugués), 7-11 October 2013
Tiphaine Bourgeteau, Bernard Geffroy, Denis Tondelier, Romain Brisse, Christel Laberty-Robert, Rémi de Bettignies, Jennifer Fize, Vincent Artero, Serge Palacin, Bruno Jusselme, Direct photosensitization of MoS <sub>3</sub> by polymer-fullerene bulk heterojunction solar cells for hydrogen photo-production. Oral communication, Solar Energy For World Peace, 17-19 August, 2013, Istanbul, Turkey.
Tiphaine Bourgeteau, Bernard Geffroy, Denis Tondelier, Romain Brisse, Christel Laberty-Robert, Rémi de Bettignies, Jennifer Fize, Vincent Artero, Serge Palacin, Bruno Jusselme, Photosensibilisation directe de MoS <sub>3</sub> par une cellule solaire organique pour la photoproduction d'hydrogène. Oral Communication, Journées d'Electrochimie 2013, 8-12 July 2013, Paris, France.
S. Palacin, Les systèmes catalytiques et photocatalytiques sans métaux nobles. Congrès Général de la Société Française de Physique, 1-5 July 2013, Marseille, France.
<u>M. Chavarot-Kerlidou</u> , N. Queyriaux, N. Kaeffer, J. Fize, M. Fontecave, V. Artero, Dye-sensitized nanostructured mesoporous ITO films for photoelectrochemical applications, Journée « Electrochimie Alpes », September 19 2013, Grenoble, France.
<u>Kastrinaki G., Daskalos E., Pagkoura C., Vlachos N.D., Skevis G., Konstandopoulos A.G., Vardavoulias M., Jaén M., Saracco G. (2015) "Synthesis and Numerical Simulation of Nanostructured Transparent Conductive Oxide Membranes for Water Splitting at Low-Temperatures", in the 14th Conference of the European Ceramic Society (ECerS XIV), Toledo, Spain, June 21-25.</u>
<b>Posters</b>
"System integration: implementing molecular photo/catalytic components into an overall water-splitting tandem cell" N. Kaeffer, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, M. Chavarot-Kerlidou, V. Artero, T.A. Moore, A. L. Moore and D. Gust; Gordon Research Seminar & Gordon Research Conference on Renewable Energy: Solar Fuels, Ventura (CA), USA, 19-24 janvier 2014.
"System integration: implementing molecular photo/catalytic components into an overall water-splitting tandem cell" N. Kaeffer, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, M. Chavarot-Kerlidou, V. Artero, T.A. Moore, A. L. Moore and D. Gust; Journée de l'Ecole doctorale Chimie et sciences du Vivant, Grenoble, 25 avril 2014.
"Modular synthesis by click chemistry and full characterization of new dinuclear ruthenium-copper complex" Eugen Andreiadis, Nicolas Queyriaux, Murielle Chavarot-Kerlidou, Marc Fontecave, Vincent Artero, Brad Veldkamp, Eric Margulies, Michael Wasielewski; Journée de l'Ecole doctorale Chimie et Sciences du Vivant, Grenoble, 24 avril 2014.
"Functionalizing ruthenium-based photosensitizers for DSPECs applications", N. Queyriaux, V. Artero and M. Chavarot-Kerlidou, 1st International Solar Fuels Meeting, Uppsala, Sweden, April 26th – May 1st 2015.

<p>"Playing with (photo)cathodes based on cobalt diimine-dioxime complexes towards their integration in device". N. Kaeffer, A. Morozan, M. Chavarot-Kerlidou, V. Artero, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, T.A. Moore, A. L. Moore, D. Gust, April 2015, 1st International Solar Fuels Conference, Uppsala, Sweden.</p>
<p>"Playing with (photo)cathodes based on cobalt diimine-dioxime complexes towards their integration in device", N. Kaeffer, A. Morozan, M. Chavarot-Kerlidou, V. Artero, M. Fournier, D. Méndez-Hernández, M. Tejada, E. Reyes, J. Tomlin, T.A. Moore, A. L. Moore, D. Gust, July 2015, Congrès 2015 de la Société Chimique de France - Chimie et Transition Energétique, Lille, France.</p>
<p>"One-Dimensional Nanostructured Semiconductor Materials for Photo-electrochemical Solar Hydrogen Production", Hernández S., Ottone C., Thalluri S.M., Chiodoni A., Russo N., Saracco G., Pirri C.F., CAMURE 2014, December 7-10, Lyon, France. <a href="http://www.camure2014.fr/">http://www.camure2014.fr/</a></p>
<p>"A push-pull type dye associated to a new CoII HER catalyst. Toward a new hydrogen photo-production system". R. Brisse, T. Bourgeteau, N. Kaeffer, B. Geffroy, S. Palacin, V. Artero, B. Jusselme. MNPC 2013- Annecy (France), 7 - 11 October 2013</p>
<p>"Study of activity and reaction kinetics of photocatalytic water oxidation systems using a bubbling reactor and its modeling", Hernández S., Bensaid S., Ottone C., Armandi M., Bonelli B., Garrone E., Pirri C.F., Saracco G. Workshop – Interface between Experimental and Theoretical Approaches to Energy-Related Enzyme Catalysis, 2-4 June, 2014, London, UK. <a href="http://www.thomasyoungcentre.org/enzyme-catalysis/">http://www.thomasyoungcentre.org/enzyme-catalysis/</a>.</p>
<p>Kastrinaki G., Daskalos E., Pagkoura C., Vlachos N.D., Skevis G., Konstandopoulos A.G., Vardavoulias M., Jaén M., Hernandez S., Saracco G. (2015) "Numerical Simulation for the Design and Performance of Nanostructured Transparent Conducting Oxide Membranes for Hydrogen Production from Water Splitting at Low-Temperatures", in the European Aerosol Conference (EAC 2015), Milan, Italy, September 6-11, 2015.</p>
<p>"A red to blue series of new organic dyes for photocathodes" R. Brisse, T. Bourgeteau, B. Geffroy and B. Jusselme. April 2015, 1st International Solar Fuels Conference, Uppsala, Sweden.</p>
<p>"Direct photosensitization of MoS<sub>3</sub> by polymer-fullerene bulk heterojunction solar cells for hydrogen photoproduction", T. Bourgeteau, R. Brisse, D. Tondelier, B. Geffroy, C. Laberty-Robert, R. de Bettignies, J. Fize, V. Artero, S. Palacin, B. Jusselme. Conférence ElecMol 2012, December 2012, Grenoble, France. Awarded with a poster prize.</p>
<p>"Toward the construction of fully molecular photocathodes for hydrogen evolution", N. Kaeffer, R. Brisse, J. Massin, A. Morozan, C. Windle, B. Jusselme, M. Chavarot-Kerlidou, V. Artero, Gordon Research Conference on Renewable Energy: Solar Fuels 27-28 February 2016, Borgo, Italy.</p>
<p>«Photocathodes based on organic semiconductors coupled to a MoS<sub>3</sub> catalyst for solar hydrogen production », T. Bourgeteau, D. Tondelier, B. Geffroy, V. Artero, B. Jusselme. International Solar Fuel conference (ISF-1), April 2015, Uppsala, Sweden. Selected for flash talk (3 min) session during the conference.</p>