

## CURRICULUM VITAE

### Personal information

Ludovic JULLIEN  
Born February 21, 1963  
French citizenship  
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École Normale Supérieure (ENS)  
Department of Chemistry  
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### Education

1990 PhD in Chemistry  
Collège de France, Paris, France  
1985 Agrégation de chimie  
1984 Master of Chemistry  
ENS/University Pierre et Marie Curie (UPMC), Paris, France

### Current position

2001- Professor at Sorbonne Université, PASTEUR Laboratory, Chemistry Department, ENS, Paris, France

### Previous positions

1994-2001 Chargé de Recherches 1<sup>ère</sup> classe CNRS ([Main French Agency for Research](#))  
Chemistry Department, ENS, Paris, France  
1991-1994 Chargé de Recherches 1<sup>ère</sup> classe CNRS ([Permanent position of researcher](#))  
Laboratoire de Chimie des Interactions Moléculaires / Collège de France, Paris, France

### Fellowships and awards

2013 Chemical Education Division Award from the French Chemical Society  
2012 Dr. et de Mme Henri Labbé Award from the French Academy of Sciences, France  
1997 CNRS Bronze Medal ([Award for young researchers at CNRS](#))  
1996 Scientia Europæa member, Fondation Rhône-Poulenc Institut de France, France  
1990-1992 Postdoctoral fellowship, Alexander von Humboldt Stiftung, Mainz University, Germany

### Supervision of graduate students and postdoctoral fellows

Since the beginning of my career, I supervised 35 Predoctoral students (among which 4 professors and 4 researchers in academia, 7 engineers in private companies, in France and abroad; highlight on N. Katsonis, University of Twente, Twente, Netherlands, ERC Starting Grant 2012; Y. Rondelez, LIMMS Tokyo/ESPCI, Paris, France, ERC Consolidator 2014), 19 PhD students (among which 6 professors and 5 researchers in academia, 6 engineers in private companies, in France and abroad; highlight on P. Neveu, Group Leader, European Molecular Biology Laboratory, Heidelberg, Germany and André Estevez-Torres, Sorbonne Université, Paris, ERC Consolidator 2017), and 9 Postdocs (among which 5 professors and 1 researcher in academia, 3 engineers in private companies, in France and abroad; highlight on C. Mangeney, Université René Descartes, Paris, selected for the 2<sup>nd</sup> step ERC Consolidator 2016; P. F. Wang, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Pekin, China). In my activity of head of department and director of laboratory at ENS, I also significantly interacted with many talented young colleagues (highlight on D. Baigl, ENS, Paris, ERC Starting grant 2010; D. Laage, ENS, Paris, ERC Starting grant 2011; A. Gautier, ENS, Paris, ERC Consolidator 2016; Z. Gueroui, ENS, Paris, selected for the 2<sup>nd</sup> step ERC Consolidator 2014).

### Teaching activities

2016- Vice-president of the jury of the "Agrégation de Sciences Physiques, Option Chimie"  
2009- Curriculum Advisory Board member, ESPCI, Paris, France  
2009-2012 Advisor Board member, Bachelor and Master of Chemistry, UPMC, Paris, France  
2009-2012 Chair, Analytical, Physical and Theoretical Chemistry Division, Master of Chemistry Paris Centre, Paris, France  
2007-2011 First year class Dean of Chemistry, UPMC Medical School, Paris, France  
2006- Chair, Chemistry Olympiades, Paris, France  
2001- Professor; Chemistry, Kinetics, Biophysical Chemistry; ENS/UPMC, Paris, France  
1999-2005 Member of the "Conseil National des Programmes" ([in particular, in charge of defining the main lines of the Curriculum of Chemistry in the Lycée during this period](#))

### **Organization of scientific meetings (during the last ten years)**

- 2017 Main organizer, ESF-COST Meeting on Systems Chemistry, ENS, Paris  
2015 Main organizer, Why living matter is worth its conceptual and synthetic challenge? ENS, Paris  
2014 Main organizer, What kind of interdisciplinary collaborations for synthetic biology? Agro ParisTech, Paris, France  
2012 Co-organizer, EMBO-ICAM-FPGG, Single Cell Physiology, ENS, Paris, France  
2012 Co-organizer, INSERM Workshop on Optogenetics, Bordeaux, France  
2011 Co-organizer, ESF-COST Meeting on Systems Chemistry, Strasbourg, France

### **Institutional responsibilities (during the last ten years)**

- 2016- Head of WP3 and Paris node in the executive board of FranceBioImaging ([National Research Infrastructure for biological imaging; https://france-bioimaging.org/](https://france-bioimaging.org/))  
2013-2016 Director, "From non-living to living matter", CNRS MI PSL ([Interdisciplinary working group mixing Natural and Human Sciences; curator for an exhibition for the large public planned in 2018; Web site: https://domesticationfabricationdivivant.wordpress.com/](https://domesticationfabricationdivivant.wordpress.com/); this topic is directly relevant to Aim 3 of my research project), France.  
2010-2018 Director of the PASTEUR Laboratory, ENS, Paris, France  
2006-2013 Director of the Chemistry Department, ENS, Paris, France

### **Commissions of trust (selection during the last ten years)**

- 2018-2008 Scientific Council member; French Alternative Energies and Atomic Energy Commission, (CEA), France (2012-), Paris Sciences Lettres Research University, Paris, France (2012-2014), ENSCP, Paris, France (2008-2012)  
2012-2009 Chair of scientific evaluation boards; Chemistry for Medicine, Foundation for Medical Research, Paris, France (2011,2012), Laboratory of Chemistry of Complex Matter, Strasbourg University, France (2011), Laboratory of Molecular Interactions and Molecular and Photochemical Reactivity, Toulouse University, France (2009),  
2012-2008 Member of scientific evaluation board; Cell Biology and Biophysics, European Molecular Biology Laboratory, Heidelberg, Germany (2013, French National Research Agency, Paris, France (2008-2012); "Physical Chemistry of Living Matter", CNRS, Paris (2008-2011)  
2016-2007 Selection committee member for faculty positions, Geneva University in Switzerland, Strasbourg University, UPMC (Paris), and ENSCP (Paris) in France; Reviewer for tenure track positions at Florida University, Carnegie Mellon University, Weizmann Institute  
2006- Regular reviewer for numerous journals (>20 evaluations/year) including *Nature Chem. Biol.*, *Nature Chemistry*, *Nature Protocols*, *Angew. Chem. Int. Ed.*, *J. Am. Chem. Soc.*,...  
2006- Regular reviewer for funding agencies: European Science Foundation (ESF), European Research Council (ERC), French National Research Agency ANR (France), Swiss National Science Foundation (Switzerland)

### **Membership of scientific societies**

- 2006- Member, French Chemical Society

### **Major running collaborations**

J.-F. Allemand, D. Bensimon, V. Croquette, Physics Department, ENS, Paris, France (Instrumental developments, cancer in zebrafish); G. Baffou, H. Rigneault, Fresnel Institute, Marseille, France (Instrumental developments); S. Cambridge, Institute of Anatomy, University of Heidelberg, Germany (Cellular Neurobiochemistry and Optogenetics); C. Gosse, LPN-CNRS, Laboratory of Photonics and Nanostructures, Marcoussis, France (Instrumental developments); A. Lemarchand, Laboratory of Theoretical Physics of Condensed Matter, UPMC, Paris, France (Theoretical developments); N. Mercader, Centro Nacional de Investigaciones Cardiovasculares CNIC, Madrid (Development in zebrafish); C. Mosimann, Biology Department, University of Zürich (Development in zebrafish); R. Nicolaÿ, L. Leibler, ESPCI, Paris, France (Photoactive materials); R. Plasson, University of Avignon, Avignon, France (Theoretical developments); A. Raya, Center of Regenerative Medicine in Barcelona (CMRB), Barcelona, Spain (Development in zebrafish); F. Schmidt, Biological Chemistry, Institut Curie, Paris, France (Biological Chemistry); C. Schulz, L. von Baumgarten, Department of Cardiology, LMU Klinikum, University of Munich, Germany (Immunology and brain cancer in mice); M. Volovitch and S. Vriz, Center for Interdisciplinary Research in Biology, Collège de France, Paris, France (Regeneration in zebrafish); S. Weiss, Department of Chemistry and Biochemistry, UCLA, USA (Cancer in zebrafish).

### **Individual background**

My culture is at the triple interface between Chemistry, Biology, and Physics, with a PhD in Supramolecular Chemistry and Photophysics (J.-M. Lehn/B. Valeur) and a postdoc in Soft Matter and Biophysics (H. Ringsdorf/E. Sackmann). My research activity has been always motivated and inspired by the amazing properties of living matter. Leading experimental, theoretical, and instrumental developments, I have correspondingly introduced various chemical tools for quantitative dynamic descriptions in Biology and conversely interrogated dynamic biological phenomena with the perspective of applications in Chemistry. I have also demonstrated my deep interest for training and communication towards a large public.

## Metrics

124	Peer-reviewed articles	9	Patents
47	Invited lectures in conferences	103	invited seminars
3725/4719	Citations (h-index 37/40) according to Web of Science/Google Scholar		

## Selection of 10 publications over the last 10 years

Corresponding author(s) with star. Full list of papers available at <http://www.ludovicjullien.org>, ResearcherID, and ResearchGate.

1. J. Quérard, R. Zhang, Z. Kelemen, M.-A. Plamont, X. Xie, R. Chouket, I. Roemgens, Y. Korepina, S. Albright, E. Ipendey, M. Volovitch, H. L. Sladitschek, P. Neveu, L. Gissot, A. Gautier, J.-D. Faure, V. Croquette, T. Le Saux,\* L. Jullien,\* Resonant out-of-phase fluorescence microscopy and remote imaging overcome spectral limitations, *Nat. Commun.*, **2017**, *8*, 969; doi: 10.1038/s41467-017-00847-3; 2. A small fluorescence-activating and absorption shifting tag for tunable protein imaging in vivo, M.-A. Plamont, E. Billon-Denis, S. Maurin, C. Gauron, F. M. Pimenta, C. G. Specht, J. Shi, J. Quérard, B. Pan, J. Rossignol, K. Moncoq, N. Morellet, M. Volovitch, E. Lescop, Y. Chen, A. Triller, S. Vríz, T. Le Saux, L. Jullien\*, A. Gautier\*, *Proc. Nat. Acad. Sci. USA (PNAS)*, **2016**, *113*, 497 - 502; DOI: 10.1073/pnas.1513094113; Highlighted in 'This week in PNAS' in *PNAS*, **2016**, *113*, 465; 3. Photoswitching kinetics and phase sensitive detection add discriminative dimensions for selective fluorescence imaging, J. Quérard, T.-Z. Markus, M.-A. Plamont, C. Gauron, P. Wang, A. Espagne, M. Volovitch, S. Vríz, V. Croquette, A. Gautier\*, T. Le Saux\*, L. Jullien\*, *Angew. Chem. Int. Ed.*, **2015**, *54*, 2633 - 2637; DOI: 10.1002/anie.201408985; 4. Expanding discriminative dimensions for analysis and imaging, J. Quérard, A. Gautier\*, T. Le Saux\*, L. Jullien\*, *Chem. Sci.*, **2015**, *6*, 2968 - 2978; DOI: 10.1039/c4sc03955f; 5. How to control proteins with light in living systems, A. Gautier, C. Gauron, M. Volovitch, D. Bensimon, L. Jullien, S. Vríz\*, *Nat. Chem. Biol.*, **2014**, *10*, 533 - 541; DOI: 10.1038/nchembio.1534; 6. Energy propagation throughout chemical networks, T. Le Saux, R. Plasson, L. Jullien\*, *Chem. Commun.*, **2014**, *50*, 6189 - 6195; DOI: 10.1039/c4cc00392f; 7. o-Nitrobenzyl Photolabile Protecting Groups with Red-shifted Absorption : Syntheses and Uncaging Cross-sections After One- and Two-photon Excitation, Aujard, C. Benbrahim, M. Gouget, O. Ruel, J.-B. Baudin, P. Neveu, L. Jullien, *Chem. Eur. J.*, **2006**, *12*, 6865 - 6879; DOI: 10.1002/chem.200501393; 8. A critique of methods for temperature imaging in single cells, G. Baffou\*, H. Rigneault, D. Marguet, L. Jullien, *Nat. Methods*, **2014**, *11*, 899 - 901; doi:10.1038/nmeth.3073; Highlighted in Editorial in *Nat. Methods*, **2014**, *11*, 875; 9. Energy propagation throughout a protometabolism leading to the local emergence of singular stationary concentration profiles, M. Emond, T. Le Saux, J.-F. Allemand, P. Pelupessy, R. Plasson, L. Jullien\*, *Chem. Eur. J.*, **2012**, *18*, 14375 - 14383; DOI: 10.1002/chem.201201974; 10. Autocatalyses, R. Plasson, A. Brandenburg, L. Jullien, H. Bersini, *J. Phys. Chem. A*, **2011**, *115*, 8073 - 8085; DOI: 10.1021/jp110079p.

## Recent patents over the last 10 years

- Protocol for determining the mechanism of reactions and the associated device, C. Gosse, L. Jullien, A. Lemarchand, T. Le Saux, K. Zrelli, International Application No.: PCT/EP2012/074699; WO2013083725
- Method for the detection of reversibly photoconvertible fluorescent species, V. Croquette, A. Gautier, L. Jullien, T. Le Saux, S. S. Nath, J. Quérard, P. Wang., International Application No.: PCT/EP2014/075336
- Fluorogen Activating and Shifting Tag (FAST), A. Gautier, L. Jullien, International Application No.: PCT/EP2015/065267
- Synthesis of photoactivable caged cyclofen-OH and derivatives thereof, I. Aujard, L. Jullien, International Application No.: EP 16 174 002.2.

## Recent invited lectures over the last 10 years (selection)

2017-2008 COST Conferences on Systems Chemistry. Paris, France (2017/2); San Sebastian, Spain (2014/6); Groningen, Netherlands (2013/9); Strasbourg, France (2011/12); Ein Bokek, Israel (2010/5); Groningen, Netherlands (2009/4); Maratea, Italy (2008/10)

2016/12 PSL Chemical Biology Symposium 2016, Paris, France

2016/9 NIM Conference on Molecular Origins of Life, Munich, Germany

2016/4 SPIE Photonics Europe 2016, Bruxelles, Belgium

2015/10 SCOL Quartely Investigator and Fellow's Meeting of the Simons Foundation, New York, USA

2015/6 Molecules in Life and Material Sciences, Fribourg/Neuchâtel, Switzerland

2015/3 PITTCON 2015, New Orleans, USA

2014/10 MiFoBio 2014, Selosse, France

2014/8 American Chemical Society National Meetings. San Francisco, USA (2014/8); San Francisco, USA (2010/3)

2013-2016 Advanced Course in Optogenetics, Institut Curie, Paris, France

2013/5 Advanced Course in Chemical Biology, EMBL, Heidelberg, Germany

2012/9 Chemical Biology 2012, Heidelberg, Germany

2012/7 EMBL Advanced School on optical methods in physiology, ENS, Paris, France

2011/10 ESF workshop on Probes for Membrane Systems Biology, Lago di Como, Italy

2011-2007 NABI CNRS-Weizmann Workshop; Cesarea, Israel (2011/9), Rehovot, Israel (2007/9)

- 2009/6 SFμ Paris 2009, Paris, France  
 2009/5 Morphogenesis in Living Systems, Paris, France  
 2009/3 NEBO09, Cachan, France  
 2015-2006 Summer schools; Summer School der Goethe Universität, Konstanz, Germany (2015/8), Monabiphot Erasmus Mundus Master Program, Presqu'île de Giens, France (2012/6), Fundamental Kinetics and Thermodynamics in Supramolecular Assemblies, Villars, Switzerland (2006/9)

**Recent invited seminars (selection mostly focusing on seminars given out of France)**

- 2017/11 National Nanotechnology Research Center, Bilkent University, Ankara, Turkey  
 2017/10 Ludwigs Maximilian Universität Muenchen, Department of Physics, Munich, Germany  
 2016/1 Technische Universität Muenchen, IBMI, Munich, Germany  
 2015/12 Collège de France, France  
 2015/10 Columbia University, Department of Chemistry, New York, USA  
 2014/10 Ludwig-Maximilian Universität München, Medizinische Klinik I, Munich, Germany  
 2014/10 Ludwig-Maximilian Universität München, Department of Physics, Munich, Germany  
 2014/8 Brookhaven National Laboratory, Center for Functional Nanomaterials, Brookhaven, USA  
 2014/8 Stanford University, Department of Chemistry, Palo Alto, USA  
 2013/5 Institute of Medical Chemistry, CSIC, Madrid, Spain  
 2012/11 Kyoto University, Department of Chemistry, Kyoto, Japan  
 2012/11 Osaka University, Department of Chemistry, Osaka, Japan  
 2012/11 Tokyo University, LIMMS, Tokyo, Japan  
 2011/11 Departments of Chemistry, Physics, and Biology, University of Geneva, Geneva, Switzerland  
 2011/3 University of Louvain la Neuve, Department of Chemistry, Louvain la Neuve, Belgium  
 2010/10 EPFL, Department of Chemistry, Lausanne, Switzerland  
 2010/5 Department of Biology, Weizmann Institute, Rehovot, Israel  
 2010/3 Department of Chemistry, UCLA, Los Angeles, USA  
 2008/12 Nordic Institute for Theoretical Physics (Nordita), Stockholm, Sweden

**VII. PERSONAL BIBLIOGRAPHY**

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**123.** F. M. Pimenta, G. Chiappetta, T. Le Saux, J. Vinh, L. Jullien, A. Gautier, Chromophore Renewal and Fluorogen-Binding Tags: A Match Made to Last, *Sci. Rep.*, **2017**, 7, 12316.  
**122.** Z. P. Feng, S. Nam, F. Hamouri, I. Aujard, B. Ducos, S. Vríz, M. Volovitch, L. Jullien, S. Lin, S. Weiss, D. Bensimon, Optical Control of Tumor Induction in the Zebrafish, *Sci. Rep.*, **2017**, 7, 9195.  
**121.** L. Jullien, A. Gautier, Hybrid fluorescent probes for “on-demand” imaging of cellular proteins, *M S-Médecine Sciences*, **2017**, 33, 6-7, 576-578.  
**120.** S. Huvelle, A. Alouane, T. Le Saux, L. Jullien, F. Schmidt, Syntheses and kinetic studies of cyclisation-based self-immolative spacers, *Org. Bio. Chem.*, **2017**, 15, 3435-3443.  
**119.** C. Li, M.-A. Plamont, H. L. Sladitschek, V. Rodrigues, I. Aujard, P. Neveu, T. Le Saux, L. Jullien, A. Gautier, Dynamic multicolor protein labeling in living cells, *Chem. Sci.*, **2017**, 8, 5598-5605.  
**118.** I. Tekeli, A. Garcia-Puig, M. Notari, C. Garcia-Pastor, I. Aujard, L. Jullien, A. Raya, Fate predetermination of cardiac myocytes during zebrafish heart regeneration, *Open Biology*, **2017**, 7, 170116.  
**117.** S. Huvelle, A. Alouane, T. Le Saux, L. Jullien, F. Schmidt, Syntheses and kinetic studies of cyclisation-based self-immolative spacers, *Org. Bio. Chem.*, **2017**, 15, 3435-3443.  
**116.** C. Li, M.-A. Plamont, I. Aujard, T. Le Saux, L. Jullien, A. Gautier, Design and characterization of red fluorogenic push–pull chromophores holding great potential for bioimaging and biosensing, *Org. Bio. Chem.*, **2016**, 14, 9253-9261.  
**115.** I. Tekeli, I. Aujard, X. Trepát, L. Jullien, A. Raya, D. Zalvidea, Long-term in vivo single-cell lineage tracing of deep structures using three-photon activation, *Light*, **2016**, 5, e16084.  
**114.** J. Quérard, T. Le Saux, A. Gautier, D. Alcor, V. Croquette, A. Lemarchand, C. Gosse, L. Jullien, Kinetics of reactive modules adds discriminative dimensions for selective cell imaging, *ChemPhysChem*, **2016**, 17, 1396-1413.  
**113.** M.-A. Plamont, E. Billon-Denis, S. Maurin, C. Gauron, F. M. Pimenta, C. G. Specht, J. Shi, J. Quérard, B. Pan, J. Rossignol, K. Moncoq, N. Morellet, M. Volovitch, E. Lescop, Y. Chen, A. Triller, S. Vríz, T. Le Saux, L. Jullien, A. Gautier, A small fluorescence-activating and absorption-shifting tag for tunable protein imaging in vivo, *Proc. Nat. Acad. Sci. USA*, **2016**, 113, 497-502 ; correction : *Proc. Nat. Acad. Sci. USA*, **2016**, 113, E1412.  
**112.** L. Jullien, A. Gautier, Fluorogen-based reporters for fluorescence imaging: a review, *Methods Appl. Fluoresc.*, **2015**, 3, 042007.

111. G. Baffou, H. Rigneault, D. Marguet, L. Jullien, Reply to : Validating subcellular thermal changes revealed by fluorescent thermosensors and The 10(5) gap issue between calculation and measurement in single-cell thermometry, *Nat. Methods*, **2015**, *12*, 803.
110. F. Closa, C. Gosse, L. Jullien, A. Lemarchand, Identification of two-step chemical mechanisms using small temperature oscillations and a single tagged species, *J. Chem. Phys.*, **2015**, *142*, 174108.
109. Q. Delacour, C. Li, M.-A. Plamont, E. Billon-Denis, I. Aujard, T. Le Saux, L. Jullien, A. Gautier, Light-activated proteolysis for the spatiotemporal control of proteins, *ACS Chem. Biol.*, **2015**, *10*, 1643-1647.
108. C. Rampon, C. Gauron, T. Lin F. Meda, E. Dupont, A. Cosson, E. Ipendey, A. Frerot, I. Aujard, T. Le Saux, D. Bensimon, L. Jullien, M. Volovitch, S. Vriza, A. Joliot, Control of brain patterning by Engrailed paracrine transfer: a new function of the PBX interaction domain, *Development*, **2015**, *142*, 1840-1849.
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106. A. Alouane, R. Labruère, T. Le Saux, F. Schmidt, L. Jullien, Self-immolative spacers: kinetic aspects, structure-property relationships and applications, *Angew. Chem. Int. Ed.*, **2015**, *54*, 7492-7509.
105. J. Querard, T.-Z. Markus, M.-A. Plamont, C. Gauron, P. Wang, A. Espagne, M. Volovitch, S. Vriza, V. Croquette, A. Gautier, T. Le Saux, L. Jullien, Photoswitching kinetics and phase sensitive detection add discriminative dimensions for selective fluorescence imaging, *Angew. Chem. Int. Ed.*, **2015**, *54*, 2633-2637.
104. S. Saint-Jalm, P. Berto, L. Jullien, E. R. Andresen, H. Rigneault, Rapidly tunable and compact coherent Raman scattering light source for molecular spectroscopy, *J. Raman Spec.*, **2014**, *45*, 515-520.
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101. T. Le Saux, R. Plasson, L. Jullien, Energy propagation throughout chemical networks, *Chem. Commun.*, **2014**, *50*, 6189-6195.
100. A. Alouane, R. Labruère, K. J. Silvestre, T. Le Saux, F. Schmidt, L. Jullien Disassembly Kinetics of Quinone-Methide-Based Self-Immolative Spacers Containing Aromatic Nitrogen-Heterocycles, *Chem. Asian J.*, **2014**, *9*, 1334-1340.
99. J. Sun, L. Jia, M. Emond, M.-H. Li, E. Marie, L. Jullien, C. Tribet, Photo-Controlled Ionization in the Corona of Rod-Like Assemblies of Diblock Copolymers, *Macromolecules*, **2014**, *47*, 1684-1692.
98. F. Closa, C. Gosse, L. Jullien, A. Lemarchand, Identification of two-step chemical mechanisms and determination of thermokinetic parameters using frequency responses to small temperature oscillations, *J. Chem. Phys.*, **2013**, *138*, 244109.
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87. K. Zrelli, T. Barilero, H. Berthoumieux, T. Le Saux, C. Gosse, A. Lemarchand, L. Jullien, Kinetic and Thermodynamic Characterisation by Heating in a Microfluidic Cell, *Sensor Lett.*, **2011**, *9*, 2332-2335.
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85. R. Plasson, A. Brandenburg, L. Jullien, H. Bersini, Autocatalyses, *J. Phys. Chem. A*, **2011**, *115*, 8073-8085.
84. M. Emond, J. Sun, J. Grégoire, S. Maurin, C. Tribet, L. Jullien, Photoinduced pH drops in water, *Phys. Chem. Chem. Phys.*, **2011**, *13*, 6493-6499.

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