

LIST OF PUBLICATIONS

Prof. Dr. Pierre BRODARD

ARTICLES

45. A nano-rattle SnO₂@carbon composite anode material for high-energy Li-ion batteries by melt diffusion impregnation

S. Maharajan, N. H. Kwon, P. Brodard and K. M. Fromm
Nanomaterials, **2020**, 804.

44. Melt-spun nanocomposite fibers reinforced with aligned tunicate nanocrystals

A. Redondo, S. Chatterjee, P. Brodard, L. T. J. Korley, C. Weder, I. Gunkel and U. Steiner
Polymers, **11**, **2019**, 1912.

43. Conference Report: STK Annual Meeting 2019

P. Brodard
Chimia, **73**, **2019**, 770.

42. Raman spectroscopy assisted residual stress measurement of plasma sprayed and laser remelted zirconia splats and coatings

B. Das, P. Brodard and P.P. Bandyopadhyay
Surface & Coatings Technology, **378**, **2019**, 124920.

41. Materials Science at Swiss Universities of Applied Sciences

P. Brodard, M. Dabros, R. Marti, E. Vanoli, M. Zinn, U. Frey, C. Adlhart, L. Kind, F. Koch, F. Burgio, J. Stenqvist, S. Saxer, U. Pielles, P. Shahgaldian and S. Wendeborn
Chimia, **73**, **2019**, 645.

40. Conference Report: STK Annual Meeting 2018

P. Brodard
Chimia, **72**, **2018**, 667.

39. Characteristics and properties of nano-LiCoO₂ synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment

J.-P. Brog, A. Crochet, J. Seydoux, M. J. D. Clift, B. Baichette, S. Maharajan, H. Barosova, P. Brodard, M. Spodaryk, A. Züttel, B. Rothen-Rutishauser, N. H. Kwon and K. M. Fromm
Journal of Nanobiotechnology, **15:58**, **2017**.

38. Characteristics of plasma sprayed coatings produced from carbon nanotube doped ceramic powder feedstock

S. C. Jambagi, S. Kar, P. Brodard and P. P. Bandyopadhyay
Materials and Design, **112**, **2016**, 392.

37. Life and death of plastics

Y. Mongbanziana, S. Aeby, M. Kaehr, V. Pilloud, J.-L. Robyr, B. Masserey, S. Hengsberger, S. Roth and P. Brodard
Chimia, **70**, **2016**, 649.

36. New kinetic approach for evaluation of hazard indicators based on merging DSC and ARC or large scale tests

B. Roduit, M. Hartmann, P. Folly, A. Sarbach, P. Brodard and R. Baltensperger
Chemical Engineering Transactions, **48**, **2016**, 37.

- 35. Distribution of silica-coated silver/gold nanostars in soft- and hardwood applying SERS-based imaging**
C. Geers, L. Rodriguez-Lorenzo, M.I. Placencia Pena, P. Brodard, T. Volkmer, B. Rothen-Rutishauser and A. Petri-Fink
Langmuir, 32, **2016**, 274.
- 34. Thermal decomposition of AIBN, Part B: Simulation of SADT value based on DSC results and large scale tests according to conventional and new kinetic merging approach**
B. Roduit, M. Hartmann, P. Folly, A. Sarbach, P. Brodard and R. Baltensperger
Thermochimica Acta, 621, **2015**, 6.
- 33. Une poignée d'épée de type "Rheingönheim" à Marsens**
A. Schenk, P. Brodard and S. Roth
Cahiers d'Archéologie Fribourgeoise, 16, **2014**, 42.
- 32. Surface Chemistry at Swiss Universities of Applied Sciences**
P. Brodard, M. E. Pfeifer, C. Adlhart, U. Pieles and P. Shahgaldian
Chimia, 68, **2014**, 560.
- 31. Impact of composite structure and morphology on electronic and ionic conductivity of carbon contained LiCoO₂ cathode**
N. H. Kwon, H. Yin, P. Brodard, C. Sugnaux and K. M. Fromm
Electrochimica Acta, 134, **2014**, 215.
- 30. Determination of thermal hazard from DSC measurements. Investigation of self-accelerating decomposition temperature (SADT) of AIBN**
B. Roduit, M. Hartmann, P. Folly, A. Sarbach, P. Brodard and R. Baltensperger
Journal of Thermal Analysis and Calorimetry, 117, **2014**, 1017.
- 29. Visualization of gold/silver nanostars in wood by surface enhanced Raman spectroscopy**
C. Geers, L. Rodriguez-Lorenzo, M.I. Placencia Pena, P. Brodard, T. Volkmer, B. Rothen-Rutishauser and A. Petri-Fink
Proceedings IRG Annual Meeting, **2014**, IRG/WP 14-30653.
- 28. Kinetics of the chrysotile and brucite dehydroxylation reaction: a combined non-isothermal/isothermal thermogravimetric analysis and high-temperature X-ray powder diffraction study**
R. Trittschack, B. Grobety and P. Brodard
Physics and Chemistry of Minerals, 41, **2014**, 197.
- 27. Non-destructive localization and identification of active pharmaceutical compounds by Raman chemical imaging**
P. Brodard, S. Roth and O. Vorlet
Chimia, 67, **2013**, 923.
- 26. Green synthesis of mono- and disubstituted pyridine via aromatic nucleophilic substitution**
E. Vanoli, R. Marti, J.-P. Bourgeois, P. Brodard, R. Despland, J. Horner and F. Gallou
Chimia, 67, **2013**, 656.
- 25. Elevated temperature, in-situ indentation with calibrated contact temperatures**
J.M. Wheeler, P. Brodard and J. Michler
Philosophical Magazine, 92, **2012**, 3128.
- 24. Synthesis and attachment of silver nanowires on atomic force microscopy cantilevers for tip-enhanced Raman spectroscopy**
P. Brodard, M. Bechelany, L. Philippe and J. Michler
Journal of Raman Spectroscopy, 43, **2012**, 745.

23. Electrodeposition of gold thin films with controlled morphologies and their applications in electrocatalysis and SERS

J. Elias, M. Gisowska, P. Brodard, R. Widmer, Y. de Hazan, T. Graule, J. Michler and L. Philippe
Nanotechnology, 23, **2012**, 255705.

22. Electrodeposition of amorphous silicon in non-oxygenated organic solvent

M. Bechelany, J. Elias, P. Brodard, J. Michler and L. Philippe
Thin Solid Films, 520, **2012**, 1895.

21. Influence of experimental parameters on the synthesis of gold nanoparticles by electroless deposition

M. Bechelany, J. Elias, J. Hankache, P. Brodard, L. Philippe and J. Michler
Advanced Materials Research, 324, **2011**, 125.

20. Gold flails by electrochemical deposition: The role of gelatin

J. Elias, P. Brodard, M. G. C. Vernooij, J. Michler and L. Philippe
Electrochimica Acta, 56, **2011**, 1485.

19. In situ micro-Raman compression: Characterization of plasticity and fracture in GaAs

R. Ghisleni, J. Liu, R. Raghavan, P. Brodard, A. Lugstein, K. Wasmer and J. Michler
Philosophical Magazine, 91, **2011**, 1286.

18. Combinatorial chemical beam epitaxy of lithium niobate thin films on sapphire

A. Dabirian, S. Harada, Y. Kuzminykh, S. Cosmin Sandu, E. Wagner, G. Benvenuti, P. Brodard, S. Rushworth, P. Muralt and P. Hoffmann
Journal of The Electrochemical Society, 158 (2), **2011**, D72.

17. Combinatorial high-vacuum chemical vapor deposition of textured hafnium-doped lithium niobate thin films on sapphire

A. Dabirian, Y. Kuzminykh, S. Cosmin Sandu, S. Harada, E. Wagner, P. Brodard, G. Benvenuti, S. Rushworth, P. Muralt and P. Hoffmann
Crystal Growth & Design, 11, **2011**, 203.

16. Synthesis and nanosoldering of nanowires for tip-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, L. Philippe and J. Michler
AIP Conference Proceedings, 1267, **2010**, 245.

15. Electrochemical synthesis of silver and gold nanostructures for surface-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, J. Elias, L. Philippe and J. Michler
AIP Conference Proceedings, 1267, **2010**, 970.

14. Simple synthetic route for SERS-active gold nanoparticles substrate with controlled shape and organization

M. Bechelany, P. Brodard, J. Elias, A. Brioude, J. Michler and L. Philippe
Langmuir, 26, **2010**, 14364.

13. Extended domains of organized nanorings of silver grains as surface-enhanced Raman scattering sensors for molecular detection

M. Bechelany, P. Brodard, L. Philippe and J. Michler
Nanotechnology, 20, **2009**, 455302.

12. Modified herringbone reconstruction on Au(111) induced by self-assembled Azure A islands

F. Rossel, P. Brodard, F. Patthey, N. V. Richardson and W.-D. Schneider
Surface Science, 602, **2008**, L115.

11. Single-molecule luminescence spectroscopy induced by local electron tunneling

P. Brodard

Chimia, 61, 2007, 613.

10. Scanning tunneling microscopy for self-assembled monolayers

P. Brodard and H. Fukumura

Advanced Chemistry of Monolayers at Interfaces: Trends in Methodology and Technology, Vol. 14, Elsevier, 2007, 1.

9. Development of STM combined with emission detection system and observation of single molecule fluorescence

M. Yoshidome, H. Matsuda, P. Brodard and H. Fukumura

Nippon Kagakkai Koen Yokoshu, 85, 2005, 332.

8. Transient grating investigations at liquid-liquid interfaces

A. Punzi, P. Brodard and E. Vauthey

Chimia, 59, 2005, 116.

7. Helicates of chiragen-type ligands and their aptitude for chiral self-recognition

O. Mamula, A. v. Zelewsky, P. Brodard, C.-W. Schlöpfer, G. Bernardinelli and H. Stoeckli-Evans

Chemistry - A European Journal, 11, 2005, 3049.

6. Application of transient evanescent grating techniques to the study of liquid/liquid interfaces

P. Brodard and E. Vauthey

Journal of Physical Chemistry B, 109, 2005, 4668.

5. Mechanism of exciplex decay: the quantum yields and the rate constants of radical ion formation from exciplexes with partial charge transfer

D. N. Dogadkin, E. V. Dolotova, I. V. Soboleva, M. G. Kuzmin, V. F. Plyusnin, I. P. Pozdnyakov, V. P. Grivin, E. Vauthey, P. Brodard and O. Nicolet

High Energy Chemistry, 38, 2004, 392.

4. Exploring liquid-liquid interfaces with transient evanescent grating techniques

P. Brodard and E. Vauthey

Review of Scientific Instruments, 74, 2003, 725.

3. Excited-state dynamics of organic radical ions in liquids and in low-temperature matrices

P. Brodard, A. Sarbach, J.-C. Gummy, T. Bally and E. Vauthey

Journal of Physical Chemistry A, 105, 2001, 6594.

2. Determination of the energy of the (d,d) electronic state involved in the radiationless deactivation of photoexcited nickel tetraphenylporphine

P. Brodard and E. Vauthey

Chemical Physics Letters, 309, 1999, 198.

1. Investigations of electronic energy transfer dynamics in multiporphyrin arrays

P. Brodard, S. Matzinger, E. Vauthey, O. Mongin, C. Papamicaël and A. Gossauer

Journal of Physical Chemistry A, 103, 1999, 5858.

CONFERENCE CONTRIBUTIONS

64. Thermal analysis in Switzerland: study of the degradation of industrial polymers & innovative experimental developments

P. Brodard

Symposium on Thermal Analysis and Calorimetry of the Romanian Academy, Timisoara (Romania), May 2019

PLENARY TALK

63. Measurement of residual stress in plasma sprayed yttria stabilized zirconia splats using micro-Raman spectroscopy

Partha P. Bandyopadhyay and P. Brodard

Swiss Raman Users Day, Affoltern am Albis (Switzerland), November 2018

TALK

62. STK - The swiss society for thermal analysis and calorimetry

P. Brodard

Prof. F. Stoessel's Retirement Colloquium: "Safety: cost factor or innovation driver?", Basel (Switzerland), June 2017

INVITED TALK

61. POLYAGE & POLYLIFE projects: lifetime prediction of polymers by physical and chemical characterization of their degradation and simulation of their ageing

P. Brodard, B. Masserey, J.-L. Robyr, S. Hengsberger, S. Roth, S. Aeby, Y. Mongbanziama, M. Kaehr and V. Pilloud

ILMAC - Competence in Process and Laboratory Technology, Basel (Switzerland), September 2016

POSTER

60. Kinetic parameters of the thermal degradation of polymers by chemiluminescence

Y. Mongbanziama, S. Aeby, S. Roth and P. Brodard

Annual Meeting of the Swiss Chemical Society-Photochemistry Section, Zurich (Switzerland), September 2015

TALK

59. Micro-SORS subsurface analysis: spatially offset Raman spectroscopy with a standard micro-Raman spectrometer

P. Brodard, L. Jacquérior and K. Zufferey

Swiss Raman Users Day, Bern (Switzerland), May 2015

TALK

58. Raman imaging: how to create maps of materials properties down to the nanoscale

P. Brodard

Fribourg Chemical Society Lectures, Fribourg (Switzerland), March 2015

INVITED TALK

57. Gold-coated polyacrylonitrile (PAN) fibers of nanometer size as SERS enhancers

P. Brodard, Y. Mongbanziama, M. Oguey and M. Bechelany

Annual SAOG Meeting, Fribourg (Switzerland), January 2015

POSTER

56. Application of DSC, advanced kinetic approach and heat balance for determination of thermal hazard

B. Roduit, M. Hartmann, P. Folly, A. Sarbach, P. Brodard and R. Baltensperger

European Symposium on Thermal Analysis and Calorimetry, Espoo (Finland), August 2014

POSTER

55. Non-destructive localization and identification of active pharmaceutical compounds by Raman chemical imaging

P. Brodard, S. Roth and O. Vorlet

International Conference on Raman Spectroscopy, Jena (Germany), August 2014

TALK

54. Gold-coated polyacrylonitrile (PAN) fibers of nanometer size as SERS enhancers

P. Brodard, Y. Mongbanziama, M. Oguey and M. Bechelany

International Conference on Raman Spectroscopy, Jena (Germany), August 2014

POSTER

53. Polymorphism of chocolate

S. Almeida, N. Allemann and P. Brodard

STK Meeting: Thermal Analysis & Calorimetry as Tool for Research & Development, Fribourg (Switzerland), June 2014

POSTER

52. Non-destructive localization and identification of active pharmaceutical compounds by Raman chemical imaging

P. Brodard

Swiss Raman Users Day, Lausanne (Switzerland), April 2014

TALK

51. Building bridges

P. Brodard

EMPA Thun Weihnachtsessen, Thun (Switzerland), December 2013

INVITED TALK

50. Impregnation and distribution studies of model nanoparticles in wood

C. Geers, L. Rodríguez-Lorenzo, P. Brodard, B. Grobety, B. Rothen-Rutishauser, T. Volkmer and A. Fink

IRG44: International Research Group on Wood Protection, 44th Annual Meeting, Stockholm (Sweden), June 2013

POSTER

49. C80 versus DSC: comparison and specific applications

L. Brandinu, C. Guinand and P. Brodard

STK Meeting: Thermal Analysis and Calorimetry, a Powerful Tool in Process Industries, Buchs (Switzerland), June 2013

POSTER

48. In-situ Raman spectroscopy characterization of polyhydroxyalkanoate (PHA, biodegradable polyester) synthesized by bacterial fermentation of sustainable resources

P. Brodard, E. Kilcher, M. Yerly and M. Zinn

RamanFest Symposium: 1st Conference on Advanced Applied Raman Spectroscopy, Lille (France), May 2013

POSTER

47. Scale-up based on advanced kinetics. Influence of DTBP/toluene ratio on the thermal behavior of samples in mg, kg and ton-scales

B. Roduit, M. Hartmann, S. Kaneko, P. Folly, A. Sarbach, P. Brodard, S. Gomez, R. Marti and J.-N. Aebischer

GEFTA-STK: Joint Meeting on Thermal Analysis and Calorimetry, Saarbrücken (Germany), October 2012

POSTER

46. Adding Tip-enhanced Raman Spectroscopy Functionality to the "NanoBits" Toolbox Concept for Atomic Force Microscopy

G. Gamez, V. LeNader, P. Brodard, M. Bartenwerfer and J. Michler

FACSS Meeting: Federation of Analytical Chemistry and Spectroscopy Societies, Kansas City (USA), September 2012

POSTER

45. Preparation and characterization of electrodeposited gold SERS substrates

P. Brodard, J. Elias, L. Philippe and J. Michler

International Conference on Enhanced Spectroscopy, Porquerolles (France), October 2012

TALK

44. Les nanostructures et la spectroscopie Raman: senseurs chimiques ultrasensibles

P. Brodard

Nanotechnologie à Fribourg: une conférence pour les industriels, Fribourg (Switzerland), July 2012

INVITED TALK

43. Raman spectroscopy of nanostructures

P. Brodard

Molecular Materials Meeting, Singapore (Singapore), January 2012

INVITED TALK

42. Raman spectroscopy of nanostructures: mechanics and plasmonics

P. Brodard and J. Michler

Symposium on Confocal Raman Imaging, Ulm (Germany), October 2011

POSTER

41. Metallic nanostructures for plasmon-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, J. Elias, L. Philippe and J. Michler

Nanoplasmonic Sensors and Spectroscopy, Gothenburg (Sweden), September 2011

TALK

40. Controlled metallic nanostructuring for the fabrication of efficient surface-enhanced Raman spectroscopy substrates

P. Brodard, M. Bechelany, J. Elias, L. Philippe and J. Michler

International Conference on Materials for Advanced Technologies, Singapore (Singapore), June 2011

TALK

39. Functionalized atomic force microscopy cantilevers for tip-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, L. Philippe and J. Michler

International Conference on Materials for Advanced Technologies, Singapore (Singapore), June 2011

TALK

38. Raman spectroscopy of nanostructures: mechanics and plasmonics

P. Brodard and J. Michler

Advanced Materials and Surfaces Day, Dübendorf (Switzerland), March 2011

POSTER

37. Residual stress in multicrystalline silicon thin film solar cells measured by Raman spectroscopy and EBSD cross-correlation technique

P. Brodard, L. von Werra, X. Maeder, W. Mook and J. Michler

Annual SAOG Meeting, Fribourg (Switzerland), January 2011

TALK

36. Tip requirements for tip-enhanced Raman spectroscopy

P. Brodard

NanoBits Technical Meeting, Erlangen (Germany), December 2010

TALK

35. Gold nanostructures for surface-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, J. Elias, L. Philippe, M. Jenke, I. Utke and J. Michler

Fall Meeting of the Swiss Chemical Society, Zurich (Switzerland), September 2010

TALK

34. Comparison of microscale measurement of residual stress in silicon using EBSD cross-correlation technique and confocal Raman microscopy

L. Bucher, X. Maeder, P. Brodard, S. Christiansen and J. Michler

Fall Meeting of the Swiss Chemical Society, Zurich (Switzerland), September 2010

POSTER

33. Surface and tip enhanced Raman spectroscopy of nanostructures

P. Brodard

Empa-WUT-NIMS workshop, Dübendorf (Switzerland), September 2010

TALK

32. Synthesis and nanosoldering of nanowires for tip-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, L. Philippe and J. Michler

International Conference on Raman Spectroscopy, Boston (USA), August 2010

TALK

31. Electrochemical synthesis of silver and gold nanostructures for surface-enhanced Raman spectroscopy

P. Brodard, M. Bechelany, J. Elias, L. Philippe and J. Michler

International Conference on Raman Spectroscopy, Boston (USA), August 2010

POSTER

30. Synthesis and nanosoldering of silver nanowires on AFM cantilevers for tip-enhanced Raman spectroscopy (TERS)

P. Brodard, M. Bechelany, L. Philippe and J. Michler

Annual SAOG Meeting, Fribourg (Switzerland), January 2010

POSTER

29. Overview of the Raman activities @ EMPA Thun

P. Brodard

Université du Sud, Toulon (France), January 2010

INVITED TALK

28. Synthesis and nanosoldering of silver nanowires on AFM cantilevers for tip-enhanced Raman spectroscopy (TERS)

P. Brodard, M. Bechelany, L. Philippe and J. Michler

Fall Meeting of the Swiss Chemical Society, Lausanne (Switzerland), September 2009

POSTER

27. Extended domains of organized nanorings of silver grains as SERS sensors for molecular detection

M. Bechelany, P. Brodard, L. Philippe, X. Maeder and J. Michler

Fall Meeting of the Swiss Chemical Society, Lausanne (Switzerland), September 2009

POSTER

26. Synthesis and nanosoldering of silver nanowires on atomic force microscopy (AFM) cantilevers for tip-enhanced Raman spectroscopy (TERS): a new technique for submicrometer stress analysis

P. Brodard, M. Bechelany, L. Philippe and J. Michler

International Conference on Materials for Advanced Technologies, Singapore (Singapore), July 2009

TALK

25. Synthesis and nanosoldering of silver nanowires on atomic force microscopy (AFM) cantilevers for tip-enhanced Raman spectroscopy (TERS)

P. Brodard, M. Bechelany, L. Philippe and J. Michler

Analytical Chemistry Symposium "Analyze That!", Zurich (Switzerland), May 2009

POSTER

24. Extended domains of organized nanorings of silver nanoparticles as SERS sensors for molecular detection

M. Bechelany, P. Brodard, L. Philippe, X. Maeder and J. Michler

Analytical Chemistry Symposium "Analyze That!", Zurich (Switzerland), May 2009

POSTER

23. Modified herringbone reconstruction on Au(111) induced by self-assembled Azure A islands

P. Brodard, F. Rossel, F. Patthey, N. V. Richardson and W.-D. Schneider

Symposium on Surface Science, St. Christoph am Arlberg (Austria), March 2008

POSTER

22. Modification of the herringbone reconstruction on the Au(111) surface induced by self-assembled Azure A molecules

P. Brodard, F. Rossel, N. V. Richardson, F. Patthey and W.-D. Schneider

molCHsurf Meeting, Bern (Switzerland), June 2007

TALK

21. Morphology and electronic structure of self-assembled Azure A molecules on Au(111) investigated by low-temperature UHV-STM

P. Brodard, F. Rossel, F. Patthey and W.-D. Schneider

Symposium on Surface Science, Les Arcs (France), March 2007

TALK

20. Self-assembly of Azure A molecules on a gold substrate investigated by scanning tunneling microscopy

F. Rossel, P. Brodard, F. Patthey and W.-D. Schneider

Fall Meeting of the Swiss Chemical Society, Zurich (Switzerland), October 2006

POSTER

19. Morphology and electronic structure of self-assembled organic molecules on surfaces investigated by low-temperature UHV-STM and STS

P. Brodard, F. Rossel, F. Patthey and W.-D. Schneider

International Symposium on Complex Molecular Architectures on Surfaces, Bonn (Germany), October 2006

POSTER

18. Self-assembly of Azure A molecules on Au(111) investigated by low-temperature STM

F. Rossel, P. Brodard, F. Patthey and W.-D. Schneider

International Conference on Nanoscience and Technology, Basel (Switzerland), July 2006

POSTER

17. In-situ Raman spectroscopy of nanostructures using scanning tunneling microscopy

P. Brodard

Université de Genève (Switzerland), November 2005

INVITED TALK

16. Investigating interfacial systems at the limit of time and space resolution: transient evanescent gratings and tip-enhanced Raman spectroscopy

P. Brodard

ETH Zurich (Switzerland), August 2005

INVITED TALK

15. Investigating interfacial systems at the limit of time and space resolution: transient evanescent gratings and tip-enhanced Raman spectroscopy

P. Brodard

EPFL Lausanne (Switzerland), August 2005

INVITED TALK

14. Development of a high-sensitivity Raman spectrometer using scanning tunneling microscopy for single molecule detection at solid-liquid interfaces

P. Brodard, M. Yoshidome and H. Fukumura

International Conference on Organized Molecular Films, Sapporo (Japan), June 2005

TALK

13. Transient gratings with evanescent waves: development of a technique for investigating liquid interfaces

P. Brodard

Ritsumeikan University, Kyoto (Japan), January 2005

INVITED TALK

12. Transient gratings with evanescent waves: development of a technique for investigating liquid interfaces

P. Brodard

PhD thesis defense, Université de Genève (Switzerland), June 2004

TALK

11. Scanning tunneling microscopy: towards nanosynthesis and submolecular spectroscopy

P. Brodard

PhD thesis exam, Université de Genève (Switzerland), May 2004

TALK

10. Adsorption of surfactant molecules at oil/alcohol interfaces probed by transient evanescent gratings

P. Brodard and E. Vauthey

Tohoku University Annual Physical Chemistry Colloquium, Sendai (Japan), August 2003

POSTER

9. Transient gratings with evanescent waves: investigation of liquid-liquid interfaces by picosecond laser ultrasonics

P. Brodard and E. Vauthey

International Conference on Photochemistry, Nara (Japan), July 2003

TALK

8. Réseaux transitoires évanescents: sonde laser continue et traitement du signal par transformation de Fourier

P. Brodard and E. Vauthey

Réunion Laser-Ultrasons, Paris (France), March 2003

INVITED TALK

7. Liquid-liquid interfaces structure and thickness explored by transient evanescent gratings

P. Brodard and E. Vauthey

Fall Meeting of the Swiss Chemical Society, Basel (Switzerland), October 2002

TALK

6. Exploring liquid-liquid interfaces with transient evanescent gratings

P. Brodard and E. Vauthey

International Conference on Photoacoustic and Photothermal Phenomena, Toronto (Canada), June 2002

TALK

5. Transient evanescent grating investigations of the speed of sound at liquid-liquid interfaces

P. Brodard and E. Vauthey

Fall Meeting of the Swiss Chemical Society, Zurich (Switzerland), October 2001

POSTER

4. Transient evanescent grating investigations of the speed of sound at liquid-liquid interfaces

P. Brodard and E. Vauthey

Rencontre Lémanique Femtoseconde, Lausanne (Switzerland), October 2001

POSTER

3. Excited state dynamics of organic radical cations in liquids and in low temperature matrices

P. Brodard, A. Sarbach and E. Vauthey

Trinational Photochemistry Meeting, Lausanne (Switzerland), February 2001

POSTER

2. Transient evanescent grating: a new technique for investigating ultrafast photoinduced processes at liquid-liquid interface

P. Brodard and E. Vauthey

Fall Meeting of the Swiss Chemical Society, Lausanne (Switzerland), October 2000

POSTER

1. Investigation of the dynamics of energy transfer in multiporphyrin arrays

P. Brodard, C. Högemann, E. Vauthey, O. Mongin, C. Papamicaël and A. Gossauer

Fall Meeting of the Swiss Chemical Society, Zurich (Switzerland), October 1998

POSTER