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44. Melt-spun nanocomposite fibers reinforced with aligned tunicate nanocrystals
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39. Characteristics and properties of nano-LiCoO$_2$ synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment

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N. H. Kwon, H. Yin, P. Brodard, C. Sugnaux and K. M. Fromm

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29. Visualization of gold/silver nanostars in wood by surface enhanced Raman spectroscopy

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. Grobéty and P. Brodard

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P. Brodard, S. Roth and O. Vorlet
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25. Elevated temperature, in-situ indentation with calibrated contact temperatures
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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
23. Electrodeposition of gold thin films with controlled morphologies and their applications in electrocatalysis and SERS

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

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19. In situ micro-Raman compression: Characterization of plasticity and fracture in GaAs
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17. Combinatorial high-vacuum chemical vapor deposition of textured hafnium-doped lithium niobate thin films on sapphire

16. Synthesis and nanosoldering of nanowires for tip-enhanced Raman spectroscopy
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15. Electrochemical synthesis of silver and gold nanostructures for surface-enhanced Raman spectroscopy
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14. Simple synthetic route for SERS-active gold nanoparticles substrate with controlled shape and organization
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P. Brodard and H. Fukumura

9. Development of STM combined with emission detection system and observation of single molecule fluorescence
M. Yoshidome, H. Matsuda, P. Brodard and H. Fukumura

8. Transient grating investigations at liquid-liquid interfaces
A. Punzi, P. Brodard and E. Vauthey

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

6. Application of transient evanescent grating techniques to the study of liquid/liquid interfaces
P. Brodard and E. Vauthey

5. Mechanism of exciplex decay: the quantum yields and the rate constants of radical ion formation from exciplexes with partial charge transfer
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4. Exploring liquid-liquid interfaces with transient evanescent grating techniques
P. Brodard and E. Vauthey

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

1. Investigations of electronic energy transfer dynamics in multiporphyrin arrays
P. Brodard, S. Matzinger, E. Vauthey, O. Mongin, C. Papamicaël and A. Gossauer
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. Jacquérioz 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  
*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


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
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. Reseaux 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*
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