

# Principles Of Surface-Enhanced Raman Spectroscopy: And Related Plasmonic Effects By Eric Le Ru;Pablo Etchegoin

By Eric Le Ru;Pablo Etchegoin

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7. Electrochemical Surface-Enhanced Raman Spectroscopy (EC-SERS): Early History, Principles, Methods, and Experiments

<http://onlinelibrary.wiley.com/doi/10.1002/9781118694404.ch7/summary>

## **epsAg {cda} | inside-R | A Community Site for R -**

References. Principles of surface-enhanced Raman spectroscopy and related plasmonic effects Eric C. Le Ru and Pablo G. Etchegoin, published by Elsevier, Amsterdam (2009).

<http://www.inside-r.org/packages/cran/cda/docs/epsAg>

## **R Graphical Manual - -**

epsAg (wavelength, epsilon Principles of surface-enhanced Raman spectroscopy and related plasmonic effects Eric C. Le Ru and Pablo G. Etchegoin,

[http://rgm3.lab.nig.ac.jp/RGM/R\\_rdf?file=cda/man/epsAg.Rd&d=R\\_CC](http://rgm3.lab.nig.ac.jp/RGM/R_rdf?file=cda/man/epsAg.Rd&d=R_CC)

### **Package planar - R -**

P. Le Ru, E., Principles of Surface-Enhanced Raman and related plasmonic effects Eric C. Le Ru effects Eric C. Le Ru and Pablo G. Etchegoin,  
<http://cran.r-project.org/web/packages/planar/planar.pdf>

### **Surface- Enhanced Raman Imaging of Intracellular -**

Feb 24, 2011 constituting surface-enhanced Raman spectroscopy Eric Le Ru, Etchegoin P. Principles of Surface ENhanced Raman SPectroscopy and related plasmonic  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3045368/>

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Principles of Surface Enhanced Raman Spectroscopy and Related Plasmonic Effects. Eric Le Ru & Pablo Etchegoin.  
<http://www.bol.com/nl/p/principles-of-surface-enhanced-raman-spectroscopy/1001004006141487/>

### **Pablo G. Etchegoin (Author of Principles of -**

Pablo G. Etchegoin is the author of Principles of Surface-Enhanced Raman Spectroscopy And Related Plasmonic Effects by Eric Le Ru,  
[http://www.goodreads.com/author/show/3328673.Pablo\\_G\\_Etchegoin](http://www.goodreads.com/author/show/3328673.Pablo_G_Etchegoin)

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### **The Theory of Raman Spectroscopy - HORIBA -**

The Theory of Raman Spectroscopy. of the light is called Raman scattering. Raman shifted photons of light can be either of higher or lower energy,  
<http://www.horiba.com/us/en/scientific/products/raman-spectroscopy/raman-academy/raman-tutorial/the-theory-of-raman-spectroscopy/>

### **Single-Molecule Surface- Enhanced Raman -**

surface-enhanced Raman spectroscopy Eric C. Le Ru and Pablo G. Etchegoin. of the SERS effect or related effects such as surface-enhanced  
<http://www.annualreviews.org/doi/full/10.1146/annurev-physchem-032511-143757>

### **Further Surface- Enhanced Raman Spectroscopy -**

dence of surface-enhanced Raman scattering from Ag colloids with adsorbed CN for surface-enhanced Raman spectroscopy fabricated by atomic layer deposition:

<http://www.annualreviews.org/doi/pdf/10.1146/annurev.anchem.1.031207.112814>

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and related plasmonic effects. Eric Le Ru & Pablo Etchegoin. one of very few books fully dedicated to the topic of surface-enhanced Raman spectroscopy

<http://www.bol.com/nl/p/principles-of-surface-enhanced-raman-spectroscopy/1001004007062331/>

### **Prof. Young-Min Shin La Tourette Hall 206 Physics -**

La Tourette Hall 206 Physics Department Northern Illinois Eric C. Le Ru, Pablo G. Etchegoin, Principles of Surface-Enhanced Raman Spectroscopy: And Related

[http://www.niu.edu/physics/courses/syllabi\\_Spring14/PHYS430\\_530\\_Spring2014\\_syllabus.pdf](http://www.niu.edu/physics/courses/syllabi_Spring14/PHYS430_530_Spring2014_syllabus.pdf)

### **Recent developments - Principles of Surface- -**

Principles of Surface-Enhanced Raman Spectroscopy. 2009, RS=surface-enhanced (resonant) Raman scattering; and SM=single molecule (SERS or fluorescence).

<http://www.sciencedirect.com/science/article/pii/B9780444527790000143>

### **EM enhancements and plasmon resonances: examples -**

Principles of Surface-Enhanced Raman Spectroscopy. Eric C. Le Ru, Pablo G. Etchegoin; (SERS) and related plasmonic effects.

<http://www.sciencedirect.com/science/article/pii/B978044452779000012X>

### **Eric Le Ru (Author of Principles of Surface- -**

Eric Le Ru is the author of Principles of Surface-Enhanced Raman Spectroscopy Eric Le Ru s Followers.

[http://www.goodreads.com/author/show/3328670.Eric\\_Le\\_Ru](http://www.goodreads.com/author/show/3328670.Eric_Le_Ru)

### **Eric C Le Ru - Google Scholar Citations -**

Eric C Le Ru. Victoria University Principles of Surface-Enhanced Raman Spectroscopy: and related plasmonic effects. E Le Ru, P Etchegoin. PG Etchegoin, EC Le

<http://scholar.google.co.nz/citations?user=zLJoDQYAAAAJ>

### **Combined SPR and SERS Microscopy in the -**

Enhanced Raman Spectroscopy and Related Plasmonic Eric C. Le Ru, and Pablo G. Etchegoin of Surface Enhanced Raman Spectroscopy and

[http://www.academia.edu/9299551/Combined\\_SPR\\_and\\_SERS\\_Microscopy\\_in\\_the\\_Kretschmann\\_Configuration](http://www.academia.edu/9299551/Combined_SPR_and_SERS_Microscopy_in_the_Kretschmann_Configuration)

### **SERS Book - School of Chemical and Physical -**

Principles of surface-enhanced Raman spectroscopy and related plasmonic effects. Eric C. Le Ru and Pablo G. Etchegoin Elsevier, Amsterdam, 2009 (released on 15th Nov

<http://www.victoria.ac.nz/scps/research/research-groups/raman-lab/sers-book>

### **Basic Principles of Surface Enhanced Raman -**

Jul 10, 2013 We will present the basics of Surface-Enhanced Raman including theory, advantages,

<http://www.youtube.com/watch?v=y7UaExLHKLo>

### **Principles of surface-enhanced Raman spectroscopy -**

Principles of surface-enhanced Raman spectroscopy : and related Surface-Enhanced Raman Scattering label " Principles of surface-enhanced Raman

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Simple Method for the Preparation of Surface Enhanced

<http://www.greenbookee.org/principles-of-surface-enhanced-raman-spectroscopy/>

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References. Principles of surface-enhanced Raman spectroscopy and related plasmonic effects Eric C. Le Ru and Pablo G. Etchegoin, published by Elsevier, Amsterdam (2009).

<http://www.inside-r.org/node/114750>

### **Raman Scattering and Surface Enhanced Raman -**

Raman Scattering and Surface Enhanced Raman Spectroscopy. and is not related to any inherent Eric C. Le Ru, and Pablo G. Etchegoin, Principles of Surface

[http://physwiki.ucdavis.edu/Wikitexts/UCD\\_BPH200a/Raman\\_Scattering\\_and\\_Surface\\_Enhanced\\_Raman\\_Spectroscopy](http://physwiki.ucdavis.edu/Wikitexts/UCD_BPH200a/Raman_Scattering_and_Surface_Enhanced_Raman_Spectroscopy)

### **Principles of Surface- Enhanced Raman -**

Pris 2551 kr. K p Principles of Surface-Enhanced Raman Spectroscopy (9780444527790) av Eric Le Ru of surface-enhanced Raman spectroscopy Etchegoin, Pablo;

<http://www.bokus.com/bok/9780444527790/principles-of-surface-enhanced-raman->

[spectroscopy/](#)

**The Use of Raman Spectroscopy in Cancer -**

Raman spectroscopy and surface-enhanced Raman Principles of Surface-Enhanced Raman Spectroscopy. The principles of SERS are based on amplifying the Raman

<http://www.spectroscopyonline.com/use-raman-spectroscopy-cancer-diagnostics-0?rel=canonical>

**Raman Spectroscopy in Nanomedicine -**

Surface-Enhanced Raman Spectroscopy. for noninvasive detection of conjugated surface enhanced resonance Raman scattering nanoparticles buried within 25

[http://www.medscape.com/viewarticle/809139\\_2](http://www.medscape.com/viewarticle/809139_2)

**Physics 430/530, OpticsLab Course - Northern -**

Prof. Young-Min Shin La Tourette Hall 206 Physics Department Northern Illinois University Physics 430/530, OpticsLab Course Spring Semester 2015

[http://www.niu.edu/physics/courses/syllabi\\_Spring15/Shin%20PHYS%20430-530.pdf](http://www.niu.edu/physics/courses/syllabi_Spring15/Shin%20PHYS%20430-530.pdf)

**PowerPoint Presentation -**

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<http://www.victoria.ac.nz/raman/book/figures/SERS%20book%20figures%20Ch1-3.ppt>

**CiteSeerX Evidence of Natural Isotopic -**

Meyer and Pablo G. Etchegoin and Eric C. Le Ru and Natural Isotopic Distribution from Single Surface-enhanced Vibrational Spectroscopy

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.517.9238>

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**Surface- enhanced Raman spectroscopy - Wikipedia, -**

Surface-enhanced Raman spectroscopy or surface-enhanced adsorbed on rough metal surfaces or by nanostructures such as plasmonic-magnetic silica Related changes;

[http://en.wikipedia.org/wiki/Surface-enhanced\\_Raman\\_spectroscopy](http://en.wikipedia.org/wiki/Surface-enhanced_Raman_spectroscopy)

### **Pablo Gabriel Etchegoin Obituaries Fellowship -**

personal friends of Pablo Etchegoin since 2004 (Eric Le Ru) Raman spectroscopy and related plasmonic effects. Surface Enhanced Raman Spectroscopy:

<http://www.royalsociety.org.nz/organisation/academy/fellowship/obituaries/pablo-gabriel-etchegoin/>

### **Spectroscopic Identification of Neurotoxin -**

Commercial nanopatterned surface-enhanced Raman spectroscopy Le Ru and P. G. Etchegoin, Principles of Surface-Enhanced Raman Spectroscopy and Related Plasmonic

<http://www.hindawi.com/journals/jnm/2014/207258/>

### **Principles Of Surface- Enhanced Raman -**

Surface-Enhanced Raman Spectroscopy: And Related Plasmonic Effects by Eric Le Ru, Pablo Etchegoin, to the topic of surface-enhanced Raman spectroscopy

<http://www.openisbn.com/isbn/0444527796/>

### **Principles of surface- enhanced Raman -**

Raman spectroscopy : and related plasmonic effects. [Eric C Le Ru; Pablo G Etchegoin] -- Surface-Enhanced Raman Eric C. Principles of surface-enhanced Raman

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### **Surface- Enhanced Raman Spectroscopy: Concepts -**

Surface-Enhanced Raman Spectroscopy: Concepts and Chemical Applications. Prof. Dr. Sebastian Schlöcker \* Surface-enhanced Raman scattering

<http://onlinelibrary.wiley.com/doi/10.1002/anie.201205748/abstract>