

# Silvia P Centeno

## List of Publications by Year in descending order

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29  
papers

792  
citations

471509

17  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1079  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Subdiffraction Limited, Remote Excitation of Surface Enhanced Raman Scattering. Nano Letters, 2009, 9, 995-1001.  | 9.1  | 136       |
| 2  | Mapping of Surface-Enhanced Fluorescence on Metal Nanoparticles using Super-Resolution Photoactivation Localization Microscopy. ChemPhysChem, 2012, 13, 973-981.  | 2.1  | 62        |
| 3  | Control of Surface Plasmon Localization via Self-Assembly of Silver Nanoparticles along Silver Nanowires. Journal of the American Chemical Society, 2008, 130, 17240-17241.   | 13.7 | 61        |
| 4  | Selection Rules of the Charge Transfer Mechanism of Surface-Enhanced Raman Scattering: The Effect of the Adsorption on the Relative Intensities of Pyrimidine Bonded to Silver Nanoclusters. Journal of Physical Chemistry B, 2006, 110, 14916-14922.   | 2.6  | 57        |
| 5  | Resonant charge transfer on the nanoscale: studying doublet states of adsorbates by surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2005, 36, 515-521.  | 2.5  | 44        |
| 6  | Multicolor Mechanofluorophores for the Quantitative Detection of Covalent Bond Scission in Polymers. Angewandte Chemie - International Edition, 2021, 60, 13287-13293.  | 13.8 | 43        |
| 7  | Franck-Condon Dominates the Surface-Enhanced Raman Scattering of 3-Methylpyridine: Propensity Rules of the Charge-Transfer Mechanism under Reduced Symmetry. Journal of Physical Chemistry C, 2012, 116, 23639-23645.   | 3.1  | 39        |
| 8  | Surface Orientation of Pyrazine Adsorbed on Silver from the Surface-Enhanced Raman Scattering Recorded at Different Electrode Potentials. Langmuir, 2002, 18, 3100-3104.  | 3.5  | 38        |
| 9  | Tailoring the Properties of Optical Force Probes for Polymer Mechanochemistry. Chemistry - A European Journal, 2021, 27, 15889-15897.   | 3.3  | 35        |
| 10 | DFT and CASPT2 study of two thermal reactions of nitromethane: C-N bond cleavage and nitro-to-nitrite isomerization. An example of the inverse symmetry breaking deficiency in density functional calculations of an homolytic dissociation. Computational and Theoretical Chemistry, 2003, 630, 17-23. | 1.5  | 32        |
| 11 | Droplet-Assisted Microfluidic Fabrication and Characterization of Multifunctional Polysaccharide Microgels Formed by Multicomponent Reactions. Polymers, 2018, 10, 1055.  | 4.5  | 32        |
| 12 | How a resonant charge transfer mechanism determines the relative intensities in the SERS spectra of 4-methylpyridine. Vibrational Spectroscopy, 2002, 29, 147-154.  | 2.2  | 23        |
| 13 | Microgel PAINT - nanoscopic polarity imaging of adaptive microgels without covalent labelling. Chemical Science, 2019, 10, 10336-10342.   | 7.4  | 22        |
| 14 | Selection rules for the charge transfer enhancement mechanism in SERS: dependence of the intensities on the L-matrix. Journal of Molecular Structure, 2001, 565-566, 369-372.   | 3.6  | 20        |
| 15 | Adsorption of mercaptoacetic acid on a colloidal silver surface as investigated by Raman spectroscopy. Biopolymers, 2004, 74, 141-145.  | 2.4  | 20        |
| 16 | Evidences for the contribution of a resonant charge transfer process to the surface-enhanced Raman scattering of 2,6-dimethylpyridine. Surface Science, 2002, 511, 163-170.   | 1.9  | 18        |
| 17 | Analysis of the Potential Dependent Surface-Enhanced Raman Scattering of <i>p</i> -Aminothiophenol on the Basis of MS-CASPT2 Calculations. Journal of Physical Chemistry C, 2016, 120, 19322-19328.   | 3.1  | 18        |
| 18 | A method to improve the agreement between calculated and observed vibrational frequencies after scaling of a quantum mechanical force field. Journal of Chemical Physics, 2000, 113, 8472-8477.   | 3.0  | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Huge Energy Gain in Metal-to-Molecule Charge Transfer Processes: A Combined Effect of an Electrical Capacitive Enhancement in Nanometer-Size Hot Spots and the Electronic Structure of the Surface Complex. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2718-2725. | 3.1 | 14        |
| 20 | Surface-enhanced Raman scattering of 2,3-dimethylpyrazine adsorbed on silver electrode: selective enhancement explained through the charge transfer mechanism. <i>Vibrational Spectroscopy</i> , 2004, 35, 39-44.  | 2.2 | 12        |
| 21 | Tailoring the Properties of Optical Force Probes for Polymer Mechanochemistry. <i>Chemistry - A European Journal</i> , 2021, 27, 15827-15828.  | 3.3 | 12        |
| 22 | On the dual character of charged metal-molecule hybrids and the opposite behaviour of the forward and reverse CT processes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22958-22961.  | 2.8 | 11        |
| 23 | Photoinduced charge transfer processes in the surface-enhanced Raman scattering of 2,4,6-trimethylpyridine recorded on silver electrode. <i>Chemical Physics Letters</i> , 2003, 377, 111-118.   | 2.6 | 8         |
| 24 | Mehrfarbige Mechanofluorophore für die quantitative Anzeige kovalenter Bindungsbrüche in Polymeren. <i>Angewandte Chemie</i> , 2021, 133, 13398-13404.   | 2.0 | 7         |
| 25 | Growth and characterization of the ZnO/ZnS bilayer obtained by chemical spray pyrolysis. <i>Applied Surface Science</i> , 2008, 255, 2118-2124.  | 6.1 | 6         |
| 26 | Scaled quantum mechanical force field of dimethylpyrazines: vibrational assignments. <i>Journal of Molecular Structure</i> , 2005, 744-747, 289-293.   | 3.6 | 5         |
| 27 | Assignment of the vibrational spectrum of trimethylpyrazine. <i>Journal of Molecular Structure</i> , 2007, 834-836, 567-571.   | 3.6 | 1         |
| 28 | Raman spectroscopic study of a genetically altered kidney cell. , 2008, , .  |     | 1         |
| 29 | Frontispiece: Tailoring the Properties of Optical Force Probes for Polymer Mechanochemistry. <i>Chemistry - A European Journal</i> , 2021, 27, .   | 3.3 | 1         |