

# Alexandre G Brolo

## List of Publications by Year in descending order

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164  
papers

13,016  
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38660

50  
h-index

22764

112  
g-index

164  
all docs

164  
docs citations

164  
times ranked

13527  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.  | 7.3  | 2,153     |
| 2  | Plasmonics for future biosensors. Nature Photonics, 2012, 6, 709-713.   | 15.6 | 919       |
| 3  | A review on the fabrication of substrates for surface enhanced Raman spectroscopy and their applications in analytical chemistry. Analytica Chimica Acta, 2011, 693, 7-25.              | 2.6  | 905       |
| 4  | Surface Plasmon Sensor Based on the Enhanced Light Transmission through Arrays of Nanoholes in Gold Films. Langmuir, 2004, 20, 4813-4815.   | 1.6  | 715       |
| 5  | A New Generation of Sensors Based on Extraordinary Optical Transmission. Accounts of Chemical Research, 2008, 41, 1049-1057.  | 7.6  | 492       |
| 6  | Strong Polarization in the Optical Transmission through Elliptical Nanohole Arrays. Physical Review Letters, 2004, 92, 037401.  | 2.9  | 439       |
| 7  | Nanohole-Enhanced Raman Scattering. Nano Letters, 2004, 4, 2015-2018.   | 4.5  | 418       |
| 8  | A review on recent advances in the applications of surface-enhanced Raman scattering in analytical chemistry. Analytica Chimica Acta, 2020, 1097, 1-29.                                 | 2.6  | 339       |
| 9  | Increased cut-off wavelength for a subwavelength hole in a real metal. Optics Express, 2005, 13, 1933.  | 1.7  | 283       |
| 10 | Nanoholes As Nanochannels: Flow-through Plasmonic Sensing. Analytical Chemistry, 2009, 81, 4308-4311.   | 3.2  | 264       |
| 11 | On-Chip Surface-Based Detection with Nanohole Arrays. Analytical Chemistry, 2007, 79, 4094-4100.  | 3.2  | 258       |
| 12 | Probing Dynamic Generation of Hot-Spots in Self-Assembled Chains of Gold Nanorods by Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2011, 133, 7563-7570. | 6.6  | 251       |
| 13 | Silver nanoparticles self assembly as SERS substrates with near single molecule detection limit. Physical Chemistry Chemical Physics, 2009, 11, 7381.                                   | 1.3  | 224       |
| 14 | Enhanced Fluorescence from Arrays of Nanoholes in a Gold Film. Journal of the American Chemical Society, 2005, 127, 14936-14941.  | 6.6  | 203       |
| 15 | Structural Investigation of $\text{MFe}_2\text{O}_4$ (M = Fe, Co) Magnetic Fluids. Journal of Physical Chemistry C, 2009, 113, 7684-7691.   | 1.5  | 199       |
| 16 | Periodic Metallic Nanostructures as Plasmonic Chemical Sensors. Langmuir, 2013, 29, 5638-5649.  | 1.6  | 189       |
| 17 | Surface-enhanced Raman scattering (SERS) from Au:Ag bimetallic nanoparticles: the effect of the molecular probe. Chemical Science, 2013, 4, 509-515.                                    | 3.7  | 183       |
| 18 | Attomolar Protein Detection Using in-Hole Surface Plasmon Resonance. Journal of the American Chemical Society, 2009, 131, 436-437.  | 6.6  | 131       |

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|----|--|------|-----------|
| 19 | High-performance microfluidic vanadium redox fuel cell. <i>Electrochimica Acta</i> , 2007, 52, 4942-4946.  | 2.6  | 127       |
| 20 | Large-Area Fabrication of Periodic Arrays of Nanoholes in Metal Films and Their Application in Biosensing and Plasmonic-Enhanced Photovoltaics. <i>Advanced Functional Materials</i> , 2010, 20, 3918-3924.  | 7.8  | 125       |
| 21 | Multilayer silver nanoparticles-modified optical fiber tip for high performance SERS remote sensing. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2270-2275.   | 5.3  | 123       |
| 22 | Optofluidic Concentration: Plasmonic Nanostructure as Concentrator and Sensor. <i>Nano Letters</i> , 2012, 12, 1592-1596.  | 4.5  | 121       |
| 23 | Hydrogen Peroxide as an Oxidant for Microfluidic Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2007, 154, B1220.   | 1.3  | 115       |
| 24 | High-speed imaging of surface-enhanced Raman scattering fluctuations from individual nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 981-987.  | 15.6 | 115       |
| 25 | Applications of surface enhanced Raman scattering to the study of metal-adsorbate interactions. <i>Journal of Molecular Structure</i> , 1997, 405, 29-44.  | 1.8  | 111       |
| 26 | Silver Nanoparticles on a Plastic Platform for Localized Surface Plasmon Resonance Biosensing. <i>Analytical Chemistry</i> , 2010, 82, 6350-6352.  | 3.2  | 107       |
| 27 | Flow-Through vs Flow-Over: Analysis of Transport and Binding in Nanohole Array Plasmonic Biosensors. <i>Analytical Chemistry</i> , 2010, 82, 10015-10020.  | 3.2  | 103       |
| 28 | Investigation of the Adsorption of L-Cysteine on a Polycrystalline Silver Electrode by Surface-Enhanced Raman Scattering (SERS) and Surface-Enhanced Second Harmonic Generation (SESHG). <i>Journal of Physical Chemistry B</i> , 2002, 106, 5982-5987.                  | 1.2  | 102       |
| 29 | Nanoparticle-Containing Structures as a Substrate for Surface-Enhanced Raman Scattering. <i>Langmuir</i> , 2006, 22, 8696-8702.  | 1.6  | 100       |
| 30 | Variability in Raman Spectra of Single Human Tumor Cells Cultured <i>in vitro</i> : Correlation with Cell Cycle and Culture Confluency. <i>Applied Spectroscopy</i> , 2010, 64, 871-887.   | 1.2  | 99        |
| 31 | Apex-Enhanced Raman Spectroscopy Using Double-Hole Arrays in a Gold Film. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2347-2350.   | 1.5  | 96        |
| 32 | Nanohole arrays in metal films as optofluidic elements: progress and potential. <i>Microfluidics and Nanofluidics</i> , 2008, 4, 107-116.  | 1.0  | 79        |
| 33 | Intensity Fluctuations in Single-Molecule Surface-Enhanced Raman Scattering. <i>Accounts of Chemical Research</i> , 2019, 52, 456-464.   | 7.6  | 76        |
| 34 | Significant Suppression of Spontaneous Emission in SiO <sub>2</sub> Photonic Crystals Made with Tb <sup>3+</sup> -Doped LaF <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4047-4051.   | 1.5  | 73        |
| 35 | Surface-enhanced Raman scattering from polystyrene on gold clusters. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 745-751.   | 1.2  | 72        |
| 36 | Adsorption/desorption behaviour of cysteine and cystine in neutral and basic media: electrochemical evidence for differing thiol and disulfide adsorption to a Au(111) single crystal electrode. <i>Journal of Electroanalytical Chemistry</i> , 2003, 550-551, 291-301. | 1.9  | 71        |

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|----|--|-----|-----------|
| 37 | The orientation of 2,2'-bipyridine adsorbed at a SERS-active Au(111) electrode surface. Journal of Electroanalytical Chemistry, 2003, 547, 163-172.  | 1.9 | 70        |
| 38 | Determination of aqueous antibiotic solutions using SERS nanogratings. Analytica Chimica Acta, 2017, 982, 148-155.   | 2.6 | 70        |
| 39 | Ratio of the surface-enhanced anti-Stokes scattering to the surface-enhanced Stokes-Raman scattering for molecules adsorbed on a silver electrode. Physical Review B, 2004, 69, .                    | 1.1 | 69        |
| 40 | Side-by-Side Assembly of Gold Nanorods Reduces Ensemble-Averaged SERS Intensity. Journal of Physical Chemistry C, 2012, 116, 5538-5545.  | 1.5 | 67        |
| 41 | Basis and Lattice Polarization Mechanisms for Light Transmission through Nanohole Arrays in a Metal Film. Nano Letters, 2005, 5, 1243-1246.  | 4.5 | 66        |
| 42 | Improved Synthesis of Gold and Silver Nanoshells. Langmuir, 2013, 29, 4366-4372.   | 1.6 | 66        |
| 43 | Surface Plasmon-Quantum Dot Coupling from Arrays of Nanoholes. Journal of Physical Chemistry B, 2006, 110, 8307-8313.  | 1.2 | 64        |
| 44 | Digital Protocol for Chemical Analysis at Ultralow Concentrations by Surface-Enhanced Raman Scattering. Analytical Chemistry, 2018, 90, 1248-1254.   | 3.2 | 63        |
| 45 | Localized Raman Enhancement from a Double-Hole Nanostructure in a Metal Film. Journal of Physical Chemistry C, 2008, 112, 15098-15101.   | 1.5 | 62        |
| 46 | Electrochemical Control of the Time-Dependent Intensity Fluctuations in Surface-Enhanced Raman Scattering (SERS). Journal of Physical Chemistry C, 2009, 113, 17737-17744.                           | 1.5 | 62        |
| 47 | Biochemical signatures of <i>in vitro</i> radiation response in human lung, breast and prostate tumour cells observed with Raman spectroscopy. Physics in Medicine and Biology, 2011, 56, 6839-6855. | 1.6 | 58        |
| 48 | Quantification of ovarian cancer markers with integrated microfluidic concentration gradient and imaging nanohole surface plasmon resonance. Analyst, The, 2013, 138, 1450.                          | 1.7 | 58        |
| 49 | Raman spectroscopy identifies radiation response in human non-small cell lung cancer xenografts. Scientific Reports, 2016, 6, 21006.   | 1.6 | 57        |
| 50 | Zika Immunoassay Based on Surface-Enhanced Raman Scattering Nanoprobes. ACS Sensors, 2018, 3, 587-594.   | 4.0 | 57        |
| 51 | Surface-enhanced Raman scattering (SERS) optrodes for multiplexed on-chip sensing of Nile blue A and oxazine 720. Lab on a Chip, 2012, 12, 1554.   | 3.1 | 49        |
| 52 | Enhanced Raman Scattering from Nanoholes in a Copper Film. Journal of Physical Chemistry C, 2008, 112, 17051-17055.  | 1.5 | 48        |
| 53 | Ag decorated sandpaper as flexible SERS substrate for direct swabbing sampling. Materials Letters, 2014, 133, 57-59.   | 1.3 | 48        |
| 54 | Tuning Gold Nanoparticle Self-Assembly for Optimum Coherent Anti-Stokes Raman Scattering and Second Harmonic Generation Response. Journal of Physical Chemistry C, 2009, 113, 3586-3592.             | 1.5 | 44        |

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|----|---|-----|-----------|
| 55 | Microfluidic Plasmonic Biosensor for Breast Cancer Antigen Detection. <i>Plasmonics</i> , 2016, 11, 45-51.  | 1.8 | 44        |
| 56 | Self-Assembled Au Nanoparticles as Substrates for Surface-Enhanced Vibrational Spectroscopy: Optimization and Electrochemical Stability. <i>ChemPhysChem</i> , 2008, 9, 1899-1907.  | 1.0 | 43        |
| 57 | Effect of periodicity on the performance of surface plasmon resonance sensors based on subwavelength nanohole arrays. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 366-370.  | 4.0 | 43        |
| 58 | Integrated nanohole array surface plasmon resonance sensing device using a dual-wavelength source. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115001.  | 1.5 | 41        |
| 59 | Statistical Correlation Between SERS Intensity and Nanoparticle Cluster Size. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16596-16605.  | 1.5 | 41        |
| 60 | A silver nanoparticle embedded hydrogel as a substrate for surface contamination analysis by surface-enhanced Raman scattering. <i>Analyst, The</i> , 2014, 139, 5283-5289.   | 1.7 | 38        |
| 61 | Polarization-dependent sensing of a self-assembled monolayer using biaxial nanohole arrays. <i>Applied Physics Letters</i> , 2008, 92, .  | 1.5 | 37        |
| 62 | FT-IR, FT-Raman and SERS spectra of anilinium sulfate. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1810-1815.  | 1.2 | 36        |
| 63 | Mapping the Energy Distribution of SERRS Hot Spots from Anti-Stokes to Stokes Intensity Ratios. <i>Journal of the American Chemical Society</i> , 2012, 134, 13492-13500.   | 6.6 | 36        |
| 64 | Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. <i>Plasmonics</i> , 2013, 8, 1113-1121.   | 1.8 | 36        |
| 65 | Detection of Buried Explosives Using a Surface-Enhanced Raman Scattering (SERS) Substrate Tailored for Miniaturized Spectrometers. <i>ACS Sensors</i> , 2020, 5, 2933-2939.   | 4.0 | 36        |
| 66 | Optimizing Plasmonic Silicon Photovoltaics with Ag and Au Nanoparticle Mixtures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5889-5895.   | 1.5 | 34        |
| 67 | Protonation and deprotonation of cysteine and cystine monolayers probed by impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2009, 625, 109-116.  | 1.9 | 31        |
| 68 | Enhanced performance of dye-sensitized solar cells using gold nanoparticles modified fluorine tin oxide electrodes. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 024005.   | 1.3 | 31        |
| 69 | SERS optrode as a "fishing rod" to direct pre-concentrate analytes from superhydrophobic surfaces. <i>Chemical Communications</i> , 2015, 51, 1965-1968.  | 2.2 | 31        |
| 70 | The electrochemical reduction of CO <sub>2</sub> on a copper electrode in 1- <i>n</i> -butyl-3-methyl imidazolium tetrafluoroborate (BMI.BF <sub>4</sub> ) monitored by surface-enhanced Raman scattering (SERS). <i>Journal of Raman Spectroscopy</i> , 2016, 47, 674-680. | 1.2 | 31        |
| 71 | A Hierarchical Self-Assembly Route to Three-Dimensional Polymer-Quantum Dot Photonic Arrays. <i>Langmuir</i> , 2007, 23, 5251-5254.   | 1.6 | 30        |
| 72 | Ex Vivo Detection of Circulating Tumor Cells from Whole Blood by Direct Nanoparticle Visualization. <i>ACS Nano</i> , 2018, 12, 1902-1909.  | 7.3 | 30        |

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|----|---|-----|-----------|
| 73 | Strong Polarized Enhanced Raman Scattering via Optical Tunneling through Random Parallel Nanostructures in Au Thin Films. <i>Journal of Physical Chemistry B</i> , 2005, 109, 401-405.            | 1.2 | 28        |
| 74 | Radiation-Induced Glycogen Accumulation Detected by Single Cell Raman Spectroscopy Is Associated with Radioresistance that Can Be Reversed by Metformin. <i>PLoS ONE</i> , 2015, 10, e0135356.    | 1.1 | 28        |
| 75 | Surface-enhanced Raman scattering (SERS) from a silver electrode modified with oxazine 720. <i>Canadian Journal of Chemistry</i> , 2004, 82, 1474-1480.   | 0.6 | 27        |
| 76 | Plasmonic labeling of subcellular compartments in cancer cells: multiplexing with fine-tuned gold and silver nanoshells. <i>Chemical Science</i> , 2017, 8, 3038-3046.                            | 3.7 | 27        |
| 77 | Surface-enhanced Raman scattering from oxazine 720 adsorbed on scratched gold films. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 629-634.  | 1.2 | 26        |
| 78 | Improved Performance of Nanohole Surface Plasmon Resonance Sensors by the Integrated Response Method. <i>IEEE Photonics Journal</i> , 2011, 3, 441-449.   | 1.0 | 25        |
| 79 | Single-Molecule Surface-Enhanced (Resonance) Raman Scattering (SE(R)RS) as a Probe for Metal Colloid Aggregation State. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20877-20885.          | 1.5 | 25        |
| 80 | Immunoassay quantification using surface-enhanced fluorescence (SEF) tags. <i>Analyst, The</i> , 2017, 142, 2717-2724.  | 1.7 | 25        |
| 81 | Dynamic Imaging of Multiple SERS Hotspots on Single Nanoparticles. <i>ACS Photonics</i> , 2020, 7, 434-443.   | 3.2 | 24        |
| 82 | Using Polycarbonate Membranes as Templates for the Preparation of Au Nanostructures for Surface-Enhanced Raman Scattering. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3233-3238. | 0.9 | 21        |
| 83 | Improving the performance of gold nanohole array biosensors by controlling the optical collimation conditions. <i>Applied Optics</i> , 2015, 54, 6502.  | 2.1 | 21        |
| 84 | Exploring Diffusion and Cellular Uptake: Charged Gold Nanoparticles in an in Vitro Breast Cancer Model. <i>ACS Applied Bio Materials</i> , 2020, 3, 6992-7002.                                    | 2.3 | 21        |
| 85 | Surface-Enhanced Resonance Raman Scattering on Gold Concentric Rings: Polarization Dependence and Intensity Fluctuations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2672-2676.          | 1.5 | 19        |
| 86 | Leukemic marker detection using a spectro-polarimetric surface plasmon resonance platform. <i>Biosensors and Bioelectronics</i> , 2015, 63, 80-85.  | 5.3 | 19        |
| 87 | Detection of hydrogen peroxide using an optical fiber-based sensing probe. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 166-173.   | 4.0 | 18        |
| 88 | Breast cancer subtype specific biochemical responses to radiation. <i>Analyst, The</i> , 2018, 143, 3850-3858.  | 1.7 | 18        |
| 89 | Collagen Type Iâ€“Gelatin Methacryloyl Composites: Mimicking the Tumor Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2887-2898.                                    | 2.6 | 18        |
| 90 | Digital plasmonic holography. <i>Light: Science and Applications</i> , 2018, 7, 52.   | 7.7 | 17        |

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|-----|---|-----|-----------|
| 91  | Fluctuations of the Stokes and anti-Stokes surface-enhanced resonance Raman scattering intensities in an electrochemical environment. <i>Chemical Communications</i> , 2011, 47, 7158.                            | 2.2 | 16        |
| 92  | Low-Cost Leukemic Serum Marker Screening Using Large Area Nanohole Arrays on Plastic Substrates. <i>ACS Sensors</i> , 2016, 1, 1103-1109.   | 4.0 | 16        |
| 93  | Raman spectroscopy and group and basis-restricted non negative matrix factorisation identifies radiation induced metabolic changes in human cancer cells. <i>Scientific Reports</i> , 2021, 11, 3853.             | 1.6 | 16        |
| 94  | Comparison of Ag and SiO <sub>2</sub> Nanoparticles for Light Trapping Applications in Silicon Thin Film Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3302-3306.                          | 2.1 | 15        |
| 95  | Surface plasmon enhanced up-conversion from NaYF <sub>4</sub> :Yb/Er/Gd nano-rods. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16170-16177.  | 1.3 | 15        |
| 96  | Use of polarization-dependent SERS from scratched gold films to monitor the electrochemically-driven desorption and readsorption of cysteine. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 159-163. | 1.9 | 14        |
| 97  | Cost-effective nanostructured thin-film solar cell with enhanced absorption. <i>Applied Physics Letters</i> , 2014, 105, .  | 1.5 | 14        |
| 98  | Electrochemical Control of Light Transmission through Nanohole Electrode Arrays. <i>ACS Photonics</i> , 2016, 3, 2375-2382.   | 3.2 | 14        |
| 99  | Light trapping in a-Si:H thin film solar cells using silver nanostructures. <i>AIP Advances</i> , 2017, 7, .  | 0.6 | 14        |
| 100 | Surface-enhanced Raman scattering from bowtie nanoaperture arrays. <i>Surface Science</i> , 2018, 676, 39-45.   | 0.8 | 14        |
| 101 | Monitor Ionizing Radiation-Induced Cellular Responses with Raman Spectroscopy, Non-Negative Matrix Factorization, and Non-Negative Least Squares. <i>Applied Spectroscopy</i> , 2020, 74, 701-711.                | 1.2 | 14        |
| 102 | The Use of Polarization-dependent SERS from Scratched Gold Films to Selectively Eliminate Solution-phase Interference. <i>Plasmonics</i> , 2007, 2, 157-162.  | 1.8 | 13        |
| 103 | Spectroscopic investigations and computational study of sulfur trioxideâ€pyridine complex. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1812-1819.  | 1.2 | 13        |
| 104 | Cu nanoparticles enable plasmonic-improved silicon photovoltaic devices. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15722.  | 1.3 | 13        |
| 105 | Comparing the Electrochemical Response of Nanostructured Electrode Arrays. <i>Analytical Chemistry</i> , 2017, 89, 6129-6135.   | 3.2 | 13        |
| 106 | Statistics on Surface-Enhanced Resonance Raman Scattering from Single Nanoshells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19104-19109.  | 1.5 | 12        |
| 107 | Haralick texture feature analysis for quantifying radiation response heterogeneity in murine models observed using Raman spectroscopic mapping. <i>PLoS ONE</i> , 2019, 14, e0212225.                             | 1.1 | 11        |
| 108 | Ultra-High-Speed Dynamics in Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7523-7532.  | 1.5 | 11        |

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|-----|---|-----|-----------|
| 109 | Uncovering the Mechanism for the Formation of Copper Thioantimonate (Sb <sup>V</sup> ) Nanoparticles and Its Transition to Thioantimonide (Sb <sup>III</sup> ). Crystal Growth and Design, 2018, 18, 6521-6527. | 1.4 | 10        |
| 110 | Comparison of SERS Performances of Co and Ni Ultrathin Films over Silver to Electrochemically Activated Co and Ni Electrodes. Journal of Physical Chemistry C, 2008, 112, 15348-15355.                          | 1.5 | 9         |
| 111 | Detecting Antibodies Secreted by Trapped Cells Using Extraordinary Optical Transmission. IEEE Sensors Journal, 2011, 11, 2732-2739.   | 2.4 | 9         |
| 112 | Nanoplasmonic Structures in Optical Fibers. , 2012, , 289-315.  |     | 9         |
| 113 | Polarization-dependent surface-enhanced Raman scattering (SERS) from microarrays. Analytica Chimica Acta, 2017, 972, 73-80.   | 2.6 | 9         |
| 114 | Recessed Gold Nanoring Ring Microarray Electrodes. Analytical Chemistry, 2017, 89, 9870-9876.   | 3.2 | 9         |
| 115 | Proof of concept for a passive sampler for monitoring of gaseous elemental mercury in artisanal gold mining. Scientific Reports, 2017, 7, 16513.  | 1.6 | 9         |
| 116 | Raman spectroscopy detects metabolic signatures of radiation response and hypoxic fluctuations in non-small cell lung cancer. BMC Cancer, 2019, 19, 474.  | 1.1 | 9         |
| 117 | High-Speed Fluctuations in Surface-Enhanced Raman Scattering Intensities from Various Nanostructures. Applied Spectroscopy, 2020, 74, 1398-1406.  | 1.2 | 9         |
| 118 | Group and Basis Restricted Non-Negative Matrix Factorization and Random Forest for Molecular Histotype Classification and Raman Biomarker Monitoring in Breast Cancer. Applied Spectroscopy, 2022, 76, 462-474. | 1.2 | 9         |
| 119 | Absorption leads to narrower plasmonic resonances. Journal of the Optical Society of America B: Optical Physics, 2019, 36, F117.  | 0.9 | 9         |
| 120 | Plasmonic sensors based on nano-holes: technology and integration. Proceedings of SPIE, 2008, , .   | 0.8 | 8         |
| 121 | Probing speciation inside a conducting polymer matrix by in situ spectroelectrochemistry. Electrochimica Acta, 2011, 56, 3101-3107.   | 2.6 | 8         |
| 122 | Evaluation of Surface-Enhanced Raman Spectroscopy Substrates from Single-Molecule Statistics. Journal of Physical Chemistry C, 2017, 121, 25487-25493.  | 1.5 | 8         |
| 123 | Nanostructuring Solar Cells Using Metallic Nanoparticles. , 2019, , 197-221.  |     | 8         |
| 124 | Single-Molecule SERS Hotspot Dynamics in Both Dry and Aqueous Environments. Journal of Physical Chemistry C, 2022, 126, 7117-7126.  | 1.5 | 8         |
| 125 | In situ micro Raman investigation of electrochemically formed halide and pseudohalide films on mercury electrodes. Journal of Raman Spectroscopy, 2002, 33, 136-141.  | 1.2 | 7         |
| 126 | Raman maps reveal heterogeneous hydrogenation on carbon materials. Journal of Raman Spectroscopy, 2021, 52, 516-524.  | 1.2 | 7         |



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|-----|---|-----|-----------|
| 127 | Protoporphyrin-modified gold surfaces for the selective monitoring of catecholamines. <i>Electrochimica Acta</i> , 2007, 52, 3863-3869.   | 2.6 | 6         |
| 128 | Polarization-dependent extraordinary optical transmission from upconversion nanoparticles. <i>Nanoscale</i> , 2015, 7, 18250-18258.   | 2.8 | 6         |
| 129 | From Dermal Patch to Implants—Applications of Biocomposites in Living Tissues. <i>Molecules</i> , 2020, 25, 507.  | 1.7 | 6         |
| 130 | Nanotechnology Driven Cancer Chemoradiation: Exploiting the Full Potential of Radiotherapy with a Unique Combination of Gold Nanoparticles and Bleomycin. <i>Pharmaceutics</i> , 2022, 14, 233. | 2.0 | 6         |
| 131 | The adsorption and orientation of pyrazine on silver electrodes: a surface enhanced Raman scattering study. <i>Journal of Electroanalytical Chemistry</i> , 1996, 414, 183-196.                 | 1.9 | 5         |
| 132 | Development of plasmonic substrates for biosensing. <i>Proceedings of SPIE</i> , 2008, , .  | 0.8 | 5         |
| 133 | Layer-by-Layer Characterization of a Model Biofuel Cell Anode by (in Situ) Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 310-316.                               | 1.5 | 5         |
| 134 | Template-Stripping Fabricated Plasmonic Nanogratings for Chemical Sensing. <i>Plasmonics</i> , 2018, 13, 231-237.   | 1.8 | 5         |
| 135 | Plasmonic Light-Trapping Concept for Nanoabsorber Photovoltaics. <i>ACS Applied Energy Materials</i> , 2019, 2, 2255-2262.  | 2.5 | 5         |
| 136 | Peering into the Formation of Template-Free Hierarchical Flowerlike Nanostructures of SrTiO <sub>3</sub> . <i>ACS Omega</i> , 2020, 5, 33007-33016.   | 1.6 | 5         |
| 137 | Plasmonic linewidth narrowing by encapsulation in a dispersive absorbing material. <i>Physical Review Research</i> , 2021, 3, .   | 1.3 | 5         |
| 138 | Quantification of a COVID-19 Antibody Assay Using a Lateral Flow Test and a Cell Phone. <i>Chemosensors</i> , 2022, 10, 234.  | 1.8 | 5         |
| 139 | Microfluidic and nanofluidic integration of plasmonic substrates for biosensing. <i>Proceedings of SPIE</i> , 2009, , .   | 0.8 | 4         |
| 140 | Sensing of antibodies secreted by microfluidically trapped cells via extraordinary optical transmission through nanohole arrays. , 2010, , .  |     | 4         |
| 141 | Engineering of CdTe Multicore in ZnO Nanoshell as a New Charge-Transfer Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18372-18376.  | 1.5 | 4         |
| 142 | Large Area Plasmonic Gold Nanopillar 3-D Electrodes. <i>Electrochimica Acta</i> , 2016, 188, 91-97.   | 2.6 | 4         |
| 143 | The development of surface-plasmon-based sensors using arrays of sub-wavelength holes. , 2005, 6002, 31.  |     | 3         |
| 144 | Biaxial nanohole array sensing and optofluidic integration. , 2008, , .   |     | 3         |

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|-----|---|-----|-----------|
| 145 | Controlling the Photoluminescence from a Laser Dye through the Oxidation Level of Polypyrrole. Macromolecular Rapid Communications, 2010, 31, 289-294.  | 2.0 | 3         |
| 146 | Selective suppression of {112} anatase facets by fluorination for enhanced TiO <sub>2</sub> particle size and phase stability at elevated temperatures. Nanoscale Advances, 2021, 3, 6223-6230. | 2.2 | 3         |
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