

# Christa Brosseau

## List of Publications by Year in descending order

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39  
papers

1,671  
citations

279798

23  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1796  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ad-hoc Surface-Enhanced Raman Spectroscopy Methodologies for the Detection of Artist Dyestuffs: Thin Layer Chromatography-Surface Enhanced Raman Spectroscopy and in Situ On the Fiber Analysis. <i>Analytical Chemistry</i> , 2009, 81, 3056-3062.	6.5	156
2	Surface-enhanced Raman spectroscopy of dyes: from single molecules to the artists' canvas. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7350.	2.8	137
3	Surface-Enhanced Raman Spectroscopy: A Direct Method to Identify Colorants in Various Artist Media. <i>Analytical Chemistry</i> , 2009, 81, 7443-7447.	6.5	112
4	Quantitative Detection of Uric Acid by Electrochemical-Surface Enhanced Raman Spectroscopy Using a Multilayered Au/Ag Substrate. <i>Analytical Chemistry</i> , 2015, 87, 441-447.	6.5	88
5	AFM Studies of Solid-Supported Lipid Bilayers Formed at a Au(111) Electrode Surface Using Vesicle Fusion and a Combination of Langmuir-Blodgett and Langmuir-Schaefer Techniques. <i>Langmuir</i> , 2008, 24, 10313-10323.	3.5	76
6	Revealing the invisible: using surface-enhanced Raman spectroscopy to identify minute remnants of color in Winslow Homer's colorless skies. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1305-1310.	2.5	75
7	Portable Electrochemical Surface-Enhanced Raman Spectroscopy System for Routine Spectroelectrochemical Analysis. <i>Analytical Chemistry</i> , 2012, 84, 1760-1764.	6.5	74
8	Development of a SERS-Based Rapid Vertical Flow Assay for Point-of-Care Diagnostics. <i>Analytical Chemistry</i> , 2017, 89, 1405-1410.	6.5	74
9	Layer-by-Layer PMIRRAS Characterization of DMPC Bilayers Deposited on a Au(111) Electrode Surface. <i>Langmuir</i> , 2006, 22, 10365-10371.	3.5	73
10	Electrochemical-surface enhanced Raman spectroscopy (E-SERS) of uric acid: a potential rapid diagnostic method for early preeclampsia detection. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1382-1388.	2.8	61
11	Development of an electrochemical surface-enhanced Raman spectroscopy (EC-SERS) aptasensor for direct detection of DNA hybridization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21356-21363.	2.8	55
12	Electrochemical-Surface Enhanced Raman Spectroscopic (EC-SERS) Study of 6-Thiouric Acid: A Metabolite of the Chemotherapy Drug Azathioprine. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8084-8090.	3.1	53
13	Electrochemical and PM-IRRAS a Glycolipid-Containing Biomimetic Membrane Prepared Using Langmuir-Blodgett/Langmuir-Schaefer Deposition. <i>Langmuir</i> , 2008, 24, 13058-13067.	3.5	52
14	Electrochemical Surface-Enhanced Raman Spectroscopy as a Platform for Bacterial Detection and Identification. <i>Analytical Chemistry</i> , 2018, 90, 12639-12646.	6.5	52
15	Development of an electrochemical surface-enhanced Raman spectroscopy (EC-SERS) fabric-based plasmonic sensor for point-of-care diagnostics. <i>Analyst</i> , 2018, 143, 4128-4135.	3.5	52
16	A Simple Complex on the Verge of Breakdown: Isolation of the Elusive Cyanofornate Ion. <i>Science</i> , 2014, 344, 75-78.	12.6	49
17	AFM Studies of the Effect of Temperature and Electric Field on the Structure of a DMPC-Cholesterol Bilayer Supported on a Au(111) Electrode Surface. <i>Langmuir</i> , 2009, 25, 1028-1037.	3.5	44
18	Electrochemical and PM-IRRAS Characterization of Cholera Toxin Binding at a Model Biological Membrane. <i>Langmuir</i> , 2013, 29, 965-976.	3.5	39

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19	The development of "fab-chips" as low-cost, sensitive surface-enhanced Raman spectroscopy (SERS) substrates for analytical applications. <i>Analyst, The</i> , 2015, 140, 779-785.	3.5	38
20	Electrochemical surface-enhanced Raman spectroscopy (EC-SERS) study of the interaction between protein aggregates and biomimetic membranes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4513-4526.	2.8	30
21	Adsorption of N-Decyl-N,N,N-trimethylammonium Triflate (DeTATf), a Cationic Surfactant, on the Au(111) Electrode Surface. <i>Langmuir</i> , 2007, 23, 1784-1791.	3.5	27
22	Electrochemical SERS study of a biomimetic membrane supported at a nanocavity patterned Ag electrode. <i>Electrochimica Acta</i> , 2013, 110, 120-132.	5.2	27
23	Spectroelectrochemical and computational studies of tetrahydrocannabinol (THC) and carboxy-tetrahydrocannabinol (THC-COOH). <i>Analyst, The</i> , 2020, 145, 1849-1857.	3.5	25
24	In Situ STM Study of Potential-Driven Transitions in the Film of a Cationic Surfactant Adsorbed on a Au(111) Electrode Surface. <i>Langmuir</i> , 2007, 23, 12529-12534.	3.5	24
25	Electrochemical surface-enhanced Raman spectroscopy (E-SERS) of novel biodegradable ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19205.	2.8	23
26	Surface-enhanced Raman spectroscopy analysis of house paint and wallpaper samples from an 18th century historic property. <i>Analyst, The</i> , 2011, 136, 3453.	3.5	20
27	Silver-chitosan and gold-chitosan substrates for surface-enhanced Raman spectroscopy (SERS): Effect of nanoparticle morphology on SERS performance. <i>Materials Chemistry and Physics</i> , 2021, 260, 124107.	4.0	20
28	Development of a sustainable plasmon-enhanced spectroelectrochemical sensor using avocado pit ( <i>Persea americana</i> ) extract. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 270-277.	7.8	17
29	Evaluation of an Electrodeposited Bimetallic Cu/Ag Nanostructured Screen Printed Electrode for Electrochemical Surface-Enhanced Raman Spectroscopy (EC-SERS) Investigations. <i>Journal of the Electrochemical Society</i> , 2017, 164, B3091-B3095.	2.9	15
30	Optimization of gold nanorod arrays for surface enhanced Raman spectroscopy (SERS) detection of atrazine. <i>Analyst, The</i> , 2021, 146, 2037-2047.	3.5	13
31	SERS of Thioglucose Adsorbed on Nanostructured Silver Electrodes. <i>ChemPhysChem</i> , 2010, 11, 1460-1467.	2.1	12
32	Electrochemical surface-enhanced Raman spectroscopy (EC-SERS): a tool for the identification of polyphenolic components in natural lake pigments. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 347-356.	2.8	12
33	Electrochemical quartz crystal nanobalance and chronocoulometry studies of phenylalanine adsorption on Au. <i>Electrochimica Acta</i> , 2006, 51, 2145-2152.	5.2	10
34	Electrochemical quartz crystal nanobalance (EQCN) studies of the adsorption behaviour of an enzyme, mandelate racemase, and its substrate, mandelic acid, on Pt. <i>Electrochimica Acta</i> , 2005, 50, 1289-1297.	5.2	9
35	On the origin of electrochemical surface-enhanced Raman spectroscopy (EC-SERS) signals for bacterial samples: the importance of filtered control studies in the development of new bacterial screening platforms. <i>Analytical Methods</i> , 2019, 11, 924-929.	2.7	9
36	Fabrication of high quality electrochemical SERS (EC-SERS) substrates using physical vapour deposition. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20065-20072.	2.8	9

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37	Electrochemical Surface-Enhanced Raman Spectroscopy (EC-SERS) and Computational Study of Atrazine: Toward Point-of-Need Detection of Prevalent Herbicides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9836-9842.	3.1	9
38	Characterizing Changes In The Structure And Orientation Of Supported Model Membranes Upon Binding Of Cholera Toxin B. <i>Biophysical Journal</i> , 2009, 96, 549a.	0.5	0
39	Editorial: Novel SERS-Active Materials and Substrates: Sensing and (Bio)applications. <i>Frontiers in Chemistry</i> , 2021, 9, 784735.	3.6	0