

# Jean-Francois Masson

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104  
papers

3,626  
citations

34  
h-index

56  
g-index

124  
ext. papers

4,448  
ext. citations

6.5  
avg, IF

6.31  
L-index

#	Paper	IF	Citations
104	Cross-reactivity of antibodies from non-hospitalized COVID-19 positive individuals against the native, B.1.351, B.1.617.2, and P.1 SARS-CoV-2 spike proteins. <i>Scientific Reports</i> , <b>2021</b> , 11, 21601	4.9	1
103	Comparative study of serum sample preparation methods in aggregation-based plasmonic sensing. <i>Analyst, The</i> , <b>2021</b> , 145, 7946-7955	5	2
102	Surface-Enhanced Raman Scattering Optophysiology Nanofibers for the Detection of Heavy Metals in Single Breast Cancer Cells. <i>ACS Sensors</i> , <b>2021</b> , 6, 1649-1662	9.2	6
101	Comparative study of block copolymer-templated localized surface plasmon resonance optical fiber biosensors: CTAB or citrate-stabilized gold nanorods. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 329, 129094	8.5	7
100	Cross-validation of ELISA and a portable surface plasmon resonance instrument for IgG antibody serology with SARS-CoV-2 positive individuals. <i>Analyst, The</i> , <b>2021</b> , 146, 4905-4917	5	7
99	Multiplexed SERS Detection of Microcystins with Aptamer-Driven Core-Satellite Assemblies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6545-6556	9.5	13
98	Wavelength-Tunable Optical Fiber Localized Surface Plasmon Resonance Biosensor a Diblock Copolymer-Templated Nanorod Monolayer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50929-50940	9.5	9
97	A high-throughput plasmonic tongue using an aggregation assay and nonspecific interactions: classification of taste profiles in maple syrup. <i>Analytical Methods</i> , <b>2020</b> , 12, 2460-2468	3.2	3
96	Branched Au Nanoparticles on Nanofibers for Surface-Enhanced Raman Scattering Sensing of Intracellular pH and Extracellular pH Gradients. <i>ACS Sensors</i> , <b>2020</b> , 5, 2155-2167	9.2	23
95	Au nanoparticles as label-free competitive reporters for sensitivity enhanced fiber-optic SPR heparin sensor. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 154, 112039	11.8	22
94	Simple multistep assembly of hybrid carbon material based microelectrode for highly sensitive detection of neurotransmitters. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 863, 114082	4.1	4
93	Portable and field-deployed surface plasmon resonance and plasmonic sensors. <i>Analyst, The</i> , <b>2020</b> , 145, 3776-3800	5	56
92	In-situ dynamic reaction of Ag NPs: Strategy for the construction of a sensitive electrochemical chiral sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 319, 128315	8.5	1
91	Deep learning and artificial intelligence methods for Raman and surface-enhanced Raman scattering. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 124, 115796	14.6	134
90	Templating Gold Nanoparticles on Nanofibers Coated with a Block Copolymer Brush for Nanosensor Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 516-529	5.6	7
89	A blueprint for performing SERS measurements in tissue with plasmonic nanofibers. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 124702	3.9	2
88	Growth of AuNPs on Glass Nanofibers for SERS Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55349-55361	9.5	6

87	Drug-Based Gold Nanoparticles Overgrowth for Enhanced SPR Biosensing of Doxycycline. <i>Biosensors</i> , <b>2020</b> , 10,	5.9	4
86	From single cells to complex tissues in applications of surface-enhanced Raman scattering. <i>Analyst, The</i> , <b>2020</b> , 145, 7162-7185	5	14
85	Polymer-Templated Gold Nanoparticles on Optical Fibers for Enhanced-Sensitivity Localized Surface Plasmon Resonance Biosensors. <i>ACS Sensors</i> , <b>2019</b> , 4, 613-622	9.2	64
84	Monolayer Arrays of Nanoparticles on Block Copolymer Brush Films. <i>Langmuir</i> , <b>2019</b> , 35, 5114-5124	4	10
83	Hybrid Nanodisk Film for Ultra-Narrowband Filtering, Near-Perfect Absorption and Wide Range Sensing. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	9
82	Mercaptopyridine-Functionalized Gold Nanoparticles for Fiber-Optic Surface Plasmon Resonance Hg Sensing. <i>ACS Sensors</i> , <b>2019</b> , 4, 704-710	9.2	61
81	Machine-Learning-Driven Surface-Enhanced Raman Scattering Optophysiology Reveals Multiplexed Metabolite Gradients Near Cells. <i>ACS Nano</i> , <b>2019</b> , 13, 1403-1411	16.7	52
80	In Vitro Drug Release and Biocatalysis from pH-Responsive Gold Nanoparticles Synthesized Using Doxycycline. <i>Langmuir</i> , <b>2019</b> , 35, 16266-16274	4	9
79	The Fundamentals of Real-Time Surface Plasmon Resonance/Electrogenerated Chemiluminescence. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18370-18374	3.6	4
78	The Fundamentals of Real-Time Surface Plasmon Resonance/Electrogenerated Chemiluminescence. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18202-18206	16.4	14
77	Block Copolymer Brush Layer-Templated Gold Nanoparticles on Nanofibers for Surface-Enhanced Raman Scattering Optophysiology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4373-4384	9.5	26
76	Rational Design of Magnetic Micronanoelectrodes for Recognition and Ultrasensitive Quantification of Cysteine Enantiomers. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3374-3381	7.8	26
75	Novel tungsten phosphide embedded nitrogen-doped carbon nanotubes: A portable and renewable monitoring platform for anticancer drug in whole blood. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 105, 226-235	11.8	12
74	Hybridization conditions of oligonucleotide-capped gold nanoparticles for SPR sensing of microRNA. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 109, 230-236	11.8	23
73	Fiber-optic surface plasmon resonance glucose sensor enhanced with phenylboronic acid modified Au nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 117, 637-643	11.8	79
72	Controllable design of polycrystalline synergies: Hybrid FeOx nanoparticles applicable to electrochemical sensing antineoplastic drug in mammalian cells. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 275, 1-9	8.5	5
71	Enhancement of Gold Nanoparticle Coupling with a 2D Plasmonic Crystal at High Incidence Angles. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6683-6692	7.8	8
70	Boronic Acid Functionalized Au Nanoparticles for Selective MicroRNA Signal Amplification in Fiber-Optic Surface Plasmon Resonance Sensing System. <i>ACS Sensors</i> , <b>2018</b> , 3, 929-935	9.2	43

69	Epstein-Barr virus-induced gene 3 (EBI3) can mediate IL-6 -signaling. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 6644-6656	5.4	24
68	Surface Spectroscopy of Nanomaterials for Detection of Diseases. <i>Advances in Electrochemical Science and Engineering</i> , <b>2017</b> , 271-293		1
67	A field-deployed surface plasmon resonance (SPR) sensor for RDX quantification in environmental waters. <i>Analyst, The</i> , <b>2017</b> , 142, 2161-2168	5	18
66	Development of Asparaginase II for Immunosensing: A Trade-Off between Receptor Density and Sensing Efficiency. <i>ACS Omega</i> , <b>2017</b> , 2, 2114-2125	3.9	6
65	Dynamic SERS nanosensor for neurotransmitter sensing near neurons. <i>Faraday Discussions</i> , <b>2017</b> , 205, 387-407	3.6	35
64	Surface Plasmon Resonance Clinical Biosensors for Medical Diagnostics. <i>ACS Sensors</i> , <b>2017</b> , 2, 16-30	9.2	34 <sup>0</sup>
63	High Figure of Merit (FOM) of Bragg Modes in Au-Coated Nanodisk Arrays for Plasmonic Sensing. <i>Small</i> , <b>2017</b> , 13, 1700908	11	13
62	Ultrasensitive and towards single molecule SERS: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 205, 291-330	3.6	9
61	SERS in biology/biomedical SERS: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 205, 429-456	3.6	15
60	Tracking Silent Hypersensitivity Reactions to Asparaginase during Leukemia Therapy Using Single-Chip Indirect Plasmonic and Fluorescence Immunosensing. <i>ACS Sensors</i> , <b>2017</b> , 2, 1761-1766	9.2	1
59	Ultra-low fouling alkylimidazolium modified surfaces for the detection of HER2 in breast cancer cell lysates [corrected]. <i>Analyst, The</i> , <b>2017</b> , 142, 2343-2353	5	16
58	Surface Plasmon Enhanced Nanohole Arrays for Biosensing <b>2017</b> , 579-608		
57	Naked-eye nanobiosensor for therapeutic drug monitoring of methotrexate. <i>Analyst, The</i> , <b>2016</b> , 141, 697-703	5	18
56	Liquid crystal filled surface plasmon resonance thermometer. <i>Optics Express</i> , <b>2016</b> , 24, 10904-11	3.3	27
55	Response Monitoring of Acute Lymphoblastic Leukemia Patients Undergoing l-Asparaginase Therapy: Successes and Challenges Associated with Clinical Sample Analysis in Plasmonic Sensing. <i>ACS Sensors</i> , <b>2016</b> , 1, 1358-1365	9.2	20
54	Surface Plasmon Resonance Imaging-MALDI-TOF Imaging Mass Spectrometry of Thin Tissue Sections. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2072-9	7.8	12
53	96-Well Plasmonic Sensing with Nanohole Arrays. <i>ACS Sensors</i> , <b>2016</b> , 1, 287-294	9.2	35
52	Biosensors and nanobiosensors for therapeutic drug and response monitoring. <i>Analyst, The</i> , <b>2016</b> , 141, 429-49	5	57

51	High throughput LSPR and SERS analysis of aminoglycoside antibiotics. <i>Analyst, The</i> , <b>2016</b> , 141, 5120-6	5	33
50	A CD36 ectodomain mediates insect pheromone detection via a putative tunnelling mechanism. <i>Nature Communications</i> , <b>2016</b> , 7, 11866	17.4	73
49	Dynamic-SERS Optophysiology: A Nanosensor for Monitoring Cell Secretion Events. <i>Nano Letters</i> , <b>2016</b> , 16, 3866-71	11.5	91
48	Sodium-Doped Gold-Assisted Laser Desorption Ionization for Enhanced Imaging Mass Spectrometry of Triacylglycerols from Thin Tissue Sections. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6018-25	7.8	53
47	Metal-enhanced fluorescence and FRET on nanohole arrays excited at angled incidence. <i>Analyst, The</i> , <b>2015</b> , 140, 4792-8	5	15
46	Compact multi-channel surface plasmon resonance sensor for real-time multi-analyte biosensing. <i>Optics Express</i> , <b>2015</b> , 23, 20540-8	3.3	22
45	Single chip SPR and fluorescent ELISA assay of prostate specific antigen. <i>Lab on A Chip</i> , <b>2015</b> , 15, 4433-40	4.2	34
44	Microdialysis SPR: diffusion-gated sensing in blood. <i>Chemical Science</i> , <b>2015</b> , 6, 4247-4254	9.4	13
43	Plasmonic sensors for the competitive detection of testosterone. <i>Analyst, The</i> , <b>2015</b> , 140, 5105-11	5	28
42	Miniature multi-channel SPR instrument for methotrexate monitoring in clinical samples. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 664-70	11.8	92
41	Metallic Nanowire Array/Polymer Hybrid Film for Surface Plasmon Resonance Sensitivity Enhancement and Spectral Range Enlargement. <i>Plasmonics</i> , <b>2014</b> , 9, 319-326	2.4	5
40	Unravelling nonspecific adsorption of complex protein mixture on surfaces with SPR and MS. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9612-9	7.8	26
39	Influence of the Debye length on the interaction of a small molecule-modified Au nanoparticle with a surface-bound bioreceptor. <i>Chemical Communications</i> , <b>2014</b> , 50, 4947-50	5.8	23
38	Plasmonic nanopipette biosensor. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8998-9005	7.8	33
37	Spectroscopic and Physical Characterization of Functionalized Au Nanoparticles: A Multiweek Experimental Project. <i>Journal of Chemical Education</i> , <b>2014</b> , 91, 1557-1562	2.4	12
36	Modern surface plasmon resonance for bioanalytics and biophysics. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11190-216	3.6	130
35	Imidazolium-based ionic liquid surfaces for biosensing. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5770-7	7.8	28
34	Non-specific adsorption of crude cell lysate on surface plasmon resonance sensors. <i>Langmuir</i> , <b>2013</b> , 29, 10141-8	4	18

33	Generation of Multiple Plasmon Resonances in a Nanochannel. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 4500509-4800509		
32	Tuning the 3D plasmon field of nanohole arrays. <i>Nanoscale</i> , <b>2013</b> , 5, 12399-408	7.7	74
31	EOT or Kretschmann configuration? Comparative study of the plasmonic modes in gold nanohole arrays. <i>Analyst, The</i> , <b>2012</b> , 137, 4162-70	5	40
30	Assessing the Location of Surface Plasmons Over Nanotriangle and Nanohole Arrays of Different Size and Periodicity. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 6884-6892	3.8	47
29	Electroformation of peptide self-assembled monolayers on gold. <i>Langmuir</i> , <b>2012</b> , 28, 22-6	4	11
28	Monitoring methotrexate in clinical samples from cancer patients during chemotherapy with a LSPR-based competitive sensor. <i>Analyst, The</i> , <b>2012</b> , 137, 4742-50	5	31
27	Angle-dependent resonance of localized and propagating surface plasmons in microhole arrays for enhanced biosensing. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2859-68	4.4	29
26	Nanostructured substrates for portable and miniature SPR biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 1477-84	4.4	41
25	Advances in surface plasmon resonance sensing with nanoparticles and thin films: nanomaterials, surface chemistry, and hybrid plasmonic techniques. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8057-62	7.8	79
24	Enhanced SPR sensing based on micro-patterned thin films <b>2011</b> ,		3
23	Phase transitions of an ionic liquid self-assembled monolayer on Au. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12015-23	3.6	6
22	Modified peptide monolayer binding His-tagged biomolecules for small ligand screening with SPR biosensors. <i>Analyst, The</i> , <b>2011</b> , 136, 3142-8	5	39
21	Correlated AFM and SERS imaging of the transition from nanotriangle to nanohole arrays. <i>Chemical Communications</i> , <b>2011</b> , 47, 3404-6	5.8	16
20	Nanohole arrays in chemical analysis: manufacturing methods and applications. <i>Analyst, The</i> , <b>2010</b> , 135, 1483-9	5	114
19	SPR Biosensing in crude serum using ultralow fouling binary patterned peptide SAM. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3699-706	7.8	91
18	Surface-Enhanced Raman Spectroscopy Amplification with Film over Etched Nanospheres. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22406-22412	3.8	32
17	Propagating surface plasmon resonance on microhole arrays. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3780-7	7.8	53
16	Optical Properties of Au, Ag, and Bimetallic Au on Ag Nanohole Arrays. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8268-8275	3.8	64

15	Localized and Propagating Surface Plasmons in Gold Particles of Near-Micron Size. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 40-44	3.8	24
14	Peptide self-assembled monolayers for label-free and unamplified surface plasmon resonance biosensing in crude cell lysate. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6779-88	7.8	52
13	High-resolution surface plasmon resonance sensors based on a dove prism. <i>Talanta</i> , <b>2009</b> , 77, 1680-7	6.2	74
12	High Sensitivity of Plasmonic Microstructures near the Transition from Short-Range to Propagating Surface Plasmon. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10052-10060	3.8	24
11	Analytical and physical optimization of nanohole-array sensors prepared by modified nanosphere lithography. <i>Analyst, The</i> , <b>2008</b> , 133, 1714-21	5	37
10	Monolayers of 3-mercaptopropyl-amino acid to reduce the nonspecific adsorption of serum proteins on the surface of biosensors. <i>Langmuir</i> , <b>2008</b> , 24, 12085-91	4	59
9	Quantitative measurement of cardiac markers in undiluted serum. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 612-9	7.8	88
8	Reduction of nonspecific protein binding on surface plasmon resonance biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 1951-9	4.4	60
7	Fiber-optic surface plasmon resonance sensors in the near-infrared spectral region. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1241-6	3.1	28
6	Nondestructive monitoring of the photochromic state of dithienylethene monolayers by surface plasmon resonance. <i>Langmuir</i> , <b>2005</b> , 21, 7413-20	4	18
5	Biocompatible polymers for antibody support on gold surfaces. <i>Talanta</i> , <b>2005</b> , 67, 918-25	6.2	63
4	Quantification of cytokines involved in wound healing using surface plasmon resonance. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7016-23	7.8	90
3	Monitoring of recombinant survival motor neuron protein using fiber-optic surface plasmon resonance. <i>Analyst, The</i> , <b>2004</b> , 129, 855-9	5	22
2	Preparation of analyte-sensitive polymeric supports for biochemical sensors. <i>Talanta</i> , <b>2004</b> , 64, 716-25	6.2	30
1	A Rapid and Quantitative Serum Test for SARS-CoV-2 Antibodies with Portable Surface Plasmon Resonance Sensing		14