

Jiri Homola

List of Publications by Citations

Source: <https://exaly.com/author-pdf/602016/jiri-homola-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211 papers	20,130 citations	59 h-index	140 g-index
226 ext. papers	22,733 ext. citations	6.7 avg, IF	7.38 L-index

#	Paper	IF	Citations
211	Surface plasmon resonance sensors: review. <i>Sensors and Actuators B: Chemical</i> , 1999 , 54, 3-15	8.5	3875
210	Surface plasmon resonance sensors for detection of chemical and biological species. <i>Chemical Reviews</i> , 2008 , 108, 462-93	68.1	2982
209	Present and future of surface plasmon resonance biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 528-39	4.4	1617
208	Surface Plasmon Resonance Based Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 ,	2	521
207	Surface plasmon resonance (SPR) sensors: approaching their limits?. <i>Optics Express</i> , 2009 , 17, 16505-17	3.3	491
206	Surface plasmon resonance sensors based on diffraction gratings and prism couplers: sensitivity comparison. <i>Sensors and Actuators B: Chemical</i> , 1999 , 54, 16-24	8.5	459
205	Ultralow fouling and functionalizable surface chemistry based on a zwitterionic polymer enabling sensitive and specific protein detection in undiluted blood plasma. <i>Analytical Chemistry</i> , 2008 , 80, 7894-901	7.8	337
204	On the sensitivity of surface plasmon resonance sensors with spectral interrogation. <i>Sensors and Actuators B: Chemical</i> , 1997 , 41, 207-211	8.5	278
203	Spectral surface plasmon resonance biosensor for detection of staphylococcal enterotoxin B in milk. <i>International Journal of Food Microbiology</i> , 2002 , 75, 61-9	5.8	261
202	Quantitative and simultaneous detection of four foodborne bacterial pathogens with a multi-channel SPR sensor. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 752-8	11.8	246
201	Long-range surface plasmons for high-resolution surface plasmon resonance sensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 145-151	8.5	229
200	Optical Biosensors Based on Plasmonic Nanostructures: A Review. <i>Proceedings of the IEEE</i> , 2016 , 104, 2380-2408	14.3	225
199	Detection of foodborne pathogens using surface plasmon resonance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 100-105	8.5	223
198	Ultrahigh resolution long range surface plasmon-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 10-12	8.5	207
197	Novel spectral fiber optic sensor based on surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 106-111	8.5	200
196	Surface plasmon resonance sensing of nucleic acids: a review. <i>Analytica Chimica Acta</i> , 2013 , 773, 9-23	6.6	194
195	Surface plasmon resonance biosensor based on integrated optical waveguide. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 8-12	8.5	192

194	Surface plasmon resonance sensor based on a single-mode polarization-maintaining optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2003 , 90, 236-242	8.5	179
193	High-throughput SPR sensor for food safety. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1399-404	11.8	163
192	Multi-analyte surface plasmon resonance biosensing. <i>Methods</i> , 2005 , 37, 26-36	4.6	162
191	Surface plasmon resonance biosensor for rapid label-free detection of microribonucleic acid at subfemtomole level. <i>Analytical Chemistry</i> , 2010 , 82, 10110-5	7.8	161
190	Optical fiber sensor based on surface plasmon excitation. <i>Sensors and Actuators B: Chemical</i> , 1995 , 29, 401-405	8.5	148
189	Functionalizable surface platform with reduced nonspecific protein adsorption from full blood plasma--material selection and protein immobilization optimization. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1924-30	11.8	147
188	A new surface plasmon resonance sensor for high-throughput screening applications. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2104-10	11.8	147
187	Single-mode optical fiber surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 1999 , 54, 74-79	8.5	143
186	A miniature fiber optic surface plasmon resonance sensor for fast detection of Staphylococcal enterotoxin B. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 591-5	11.8	142
185	Low-fouling surface plasmon resonance biosensor for multi-step detection of foodborne bacterial pathogens in complex food samples. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 84-90	11.8	141
184	DNA directed protein immobilization on mixed ssDNA/oligo(ethylene glycol) self-assembled monolayers for sensitive biosensors. <i>Analytical Chemistry</i> , 2004 , 76, 6967-72	7.8	140
183	A label-free and portable multichannel surface plasmon resonance immunosensor for on site analysis of antibiotics in milk samples. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1231-8	11.8	131
182	Surface plasmon resonance biosensing. <i>Methods in Molecular Biology</i> , 2009 , 503, 65-88	1.4	130
181	Surface Plasmon Resonance (SPR) Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 45-67		128
180	Data analysis for optical sensors based on spectroscopy of surface plasmons. <i>Measurement Science and Technology</i> , 2002 , 13, 2038-2046	2	123
179	DNA-directed protein immobilization on mixed self-assembled monolayers via a streptavidin bridge. <i>Langmuir</i> , 2004 , 20, 8090-5	4	117
178	Rich information format surface plasmon resonance biosensor based on array of diffraction gratings. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 154-161	8.5	117
177	Surface plasmon resonance biosensor for parallelized detection of protein biomarkers in diluted blood plasma. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1656-61	11.8	111

176	Ultrasensitive broadband probing of molecular vibrational modes with multifrequency optical antennas. <i>ACS Nano</i> , 2013 , 7, 669-75	16.7	106
175	Comparison of E. coli O157:H7 preparation methods used for detection with surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 202-208	8.5	105
174	Functionalizable low-fouling coatings for label-free biosensing in complex biological media: advances and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3927-53	4.4	103
173	Surface functionalization for self-referencing surface plasmon resonance (SPR) biosensors by multi-step self-assembly. <i>Sensors and Actuators B: Chemical</i> , 2003 , 90, 22-30	8.5	102
172	A novel multichannel surface plasmon resonance biosensor. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 403-410	8.5	101
171	Detection of low-molecular-weight domoic acid using surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 193-201	8.5	99
170	Enhancing sensitivity of surface plasmon resonance biosensors by functionalized gold nanoparticles: size matters. <i>Analytical Chemistry</i> , 2014 , 86, 10350-6	7.8	98
169	Long-range surface plasmons for sensitive detection of bacterial analytes. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 59-63	8.5	98
168	Multichannel surface plasmon resonance biosensor with wavelength division multiplexing. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 758-764	8.5	98
167	Miniaturization of fiber optic surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 311-315	8.5	92
166	Compact and low-cost biosensor based on novel approach to spectroscopy of surface plasmons. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3430-5	11.8	89
165	Ultra-low fouling and functionalizable zwitterionic coatings grafted onto SiO ₂ via a biomimetic adhesive group for sensing and detection in complex media. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2276-82	11.8	88
164	Label-free detection of cancer biomarker candidates using surface plasmon resonance imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1157-63	4.4	86
163	High-resolution biosensor based on localized surface plasmons. <i>Optics Express</i> , 2012 , 20, 672-80	3.3	85
162	Surface plasmon resonance biosensor for direct detection of antibody against Epstein-Barr virus. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1020-6	11.8	80
161	Theory and modelling of optical waveguide sensors utilising surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 1999 , 54, 66-73	8.5	73
160	Rapid and sensitive detection of multiple microRNAs in cell lysate by low-fouling surface plasmon resonance biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 226-31	11.8	71
159	Functionalized ultra-low fouling carboxy- and hydroxy-functional surface platforms: functionalization capacity, biorecognition capability and resistance to fouling from undiluted biological media. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 150-7	11.8	69

158	A surface plasmon resonance based integrated optical sensor. <i>Sensors and Actuators B: Chemical</i> , 1997 , 39, 286-290	8.5	65
157	Optical sensors based on spectroscopy of localized surface plasmons on metallic nanoparticles: sensitivity considerations. <i>Biointerphases</i> , 2008 , 3, FD4-11	1.8	65
156	Electromagnetic Theory of Surface Plasmons. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 3-44	2	65
155	An SPR biosensor for the detection of microcystins in drinking water. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2625-34	4.4	62
154	Biofunctionalized gold nanoparticles for SPR-biosensor-based detection of CEA in blood plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2869-75	4.4	60
153	Local refractive index sensitivity of plasmonic nanoparticles. <i>Optics Express</i> , 2011 , 19, 9213-20	3.3	59
152	Effect of the immobilisation of DNA aptamers on the detection of thrombin by means of surface plasmon resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1861-9	4.4	59
151	Surface plasmon resonance sensor based on an array of diffraction gratings for highly parallelized observation of biomolecular interactions. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 303-310	8.5	59
150	Multiple surface plasmon spectroscopy for study of biomolecular systems. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 774-781	8.5	57
149	Plasmonic Nanoantennas for Multispectral Surface-Enhanced Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18620-18626	3.8	56
148	Surface plasmon resonance biosensors for detection of Alzheimer disease biomarker. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 69-73	8.5	54
147	Towards parallelized surface plasmon resonance sensor platform for sensitive detection of oligonucleotides. <i>Sensors and Actuators B: Chemical</i> , 2007 , 121, 187-193	8.5	52
146	Label-free slot-waveguide biosensor for the detection of DNA hybridization. <i>Applied Optics</i> , 2012 , 51, 8195-202	1.7	50
145	Protein contact printing for a surface plasmon resonance biosensor with on-chip referencing. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 91-99	8.5	50
144	Fibre-optic sensor based on surface plasmon resonance. <i>Electronics Letters</i> , 1996 , 32, 480	1.1	50
143	Advanced biosensing using simultaneous excitation of short and long range surface plasmons. <i>Measurement Science and Technology</i> , 2006 , 17, 932-938	2	48
142	Theoretical analysis of a fiber optic surface plasmon resonance sensor utilizing a Bragg grating. <i>Optics Express</i> , 2009 , 17, 23254-64	3.3	47
141	Advances in Surface Plasmon Resonance Imaging and Microscopy and Their Biological Applications. <i>Annual Review of Analytical Chemistry</i> , 2019 , 12, 151-176	12.5	46

140	Surface plasmon resonance biosensor for the detection of VEGFR-1--a protein marker of myelodysplastic syndromes. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 381-7	4.4	46
139	Compact surface plasmon-enhanced fluorescence biochip. <i>Optics Express</i> , 2013 , 21, 10121-32	3.3	46
138	Tailoring plasmonic nanostructures for optimal SERS sensing of small molecules and large microorganisms. <i>Small</i> , 2011 , 7, 371-6	11	46
137	Shielding effect of monovalent and divalent cations on solid-phase DNA hybridization: surface plasmon resonance biosensor study. <i>Nucleic Acids Research</i> , 2010 , 38, 7343-51	20.1	46
136	High-performance compact SPR sensor for multi-analyte sensing. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 544-549	8.5	46
135	Multichannel SPR biosensor for detection of endocrine-disrupting compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 1841-7	4.4	45
134	Detection of bisphenol A using a novel surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1963-6	4.4	44
133	Modelling of surface plasmon resonance waveguide sensor by complex mode expansion and propagation method. <i>Optical and Quantum Electronics</i> , 1997 , 29, 301-311	2.4	44
132	Dual-channel surface plasmon resonance sensor with spectral discrimination of sensing channels using dielectric overlayer. <i>Electronics Letters</i> , 1999 , 35, 1105	1.1	44
131	Novel concept of multi-channel fiber optic surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 199-203	8.5	43
130	Surface plasmon resonance sensor with dispersionless microfluidics for direct detection of nucleic acids at the low femtomole level. <i>Sensors and Actuators B: Chemical</i> , 2010 , 145, 588-591	8.5	43
129	Hybrid surface platform for the simultaneous detection of proteins and DNAs using a surface plasmon resonance imaging sensor. <i>Analytical Chemistry</i> , 2008 , 80, 4231-6	7.8	43
128	Sensing properties of lattice resonances of 2D metal nanoparticle arrays: an analytical model. <i>Optics Express</i> , 2013 , 21, 27490-502	3.3	42
127	Nanoplasmonic ruler to measure lipid vesicle deformation. <i>Chemical Communications</i> , 2016 , 52, 76-9	5.8	41
126	Flexible method based on four-beam interference lithography for fabrication of large areas of perfectly periodic plasmonic arrays. <i>Optics Express</i> , 2014 , 22, 18778-89	3.3	41
125	Novel polarization control scheme for spectral surface plasmon resonance sensors. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 331-339	8.5	41
124	Enhancement of affinity-based biosensors: effect of sensing chamber geometry on sensitivity. <i>Lab on A Chip</i> , 2013 , 13, 1413-21	7.2	39
123	A Route to Superior Performance of a Nanoplasmonic Biosensor: Consideration of Both Photonic and Mass Transport Aspects. <i>ACS Photonics</i> , 2018 , 5, 1019-1025	6.3	38

122	Configuration-controlled Au nanocluster arrays on inverse micelle nano-patterns: versatile platforms for SERS and SPR sensors. <i>Nanoscale</i> , 2013 , 5, 12261-71	7.7	38
121	Investigating oligonucleotide hybridization at subnanomolar level by surface plasmon resonance biosensor method. <i>Biopolymers</i> , 2006 , 82, 394-8	2.2	38
120	Detecting the adsorption of dye molecules in homogeneous poly(propylene imine) dendrimer monolayers by surface plasmon resonance sensor. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3395-401	16.4	38
119	Advances and applications of nanophotonic biosensors.. <i>Nature Nanotechnology</i> , 2022 , 17, 5-16	28.7	38
118	Tuning of spectral operation range of a waveguide surface plasmon resonance sensor. <i>Electronics Letters</i> , 1997 , 33, 1246	1.1	37
117	Understanding the effects of dielectric medium, substrate, and depth on electric fields and SERS of quasi-3D plasmonic nanostructures. <i>Optics Express</i> , 2011 , 19, 20493-505	3.3	36
116	Surface plasmon resonance sensor for detection of bisphenol A in drinking water. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 177-179	8.5	36
115	New approach to spectroscopy of surface plasmons. <i>Optics Letters</i> , 2006 , 31, 3339-41	3	36
114	Ultralow-Fouling Behavior of Biorecognition Coatings Based on Carboxy-Functional Brushes of Zwitterionic Homo- and Copolymers in Blood Plasma: Functionalization Matters. <i>Analytical Chemistry</i> , 2017 , 89, 3524-3531	7.8	35
113	Surface plasmon-coupled emission on plasmonic Bragg gratings. <i>Optics Express</i> , 2012 , 20, 14042-53	3.3	35
112	Functional gold nanoparticles for optical affinity biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4087-4097	4.4	34
111	Label-free biosensing in complex media: a referencing approach. <i>Analytical Chemistry</i> , 2013 , 85, 5637-407.8	7.8	34
110	Self-referencing SPR imaging for most demanding high-throughput screening applications. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 353-355	8.5	33
109	Copolymer Brush-Based Ultralow-Fouling Biorecognition Surface Platform for Food Safety. <i>Analytical Chemistry</i> , 2016 , 88, 10533-10539	7.8	32
108	Real-time monitoring of biomolecular interactions in blood plasma using a surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1955-61	4.4	31
107	Interaction between fiber modes and surface plasmon waves: spectral properties. <i>Optics Letters</i> , 1997 , 22, 1403-5	3	31
106	Detection of botulinum neurotoxins in buffer and honey using a surface plasmon resonance (SPR) sensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 129-134	8.5	31
105	Light Transmission and Surface-Enhanced Raman Scattering of Quasi-3D Plasmonic Nanostructure Arrays with Deep and Shallow Fabry-Pérot Nanocavities. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10996-11002 ²⁹	6.8	29

104	Novel high-affinity binders of human interferon gamma derived from albumin-binding domain of protein G. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 774-89	4.2	28
103	Real-time label-free monitoring of the cellular response to osmotic stress using conventional and long-range surface plasmons. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 417-21	11.8	28
102	Surface plasmon resonance optical cavity enhanced refractive index sensing. <i>Optics Letters</i> , 2013 , 38, 1951-3	3	28
101	The influence of intrinsic coagulation pathway on blood platelets activation by oxidized cellulose. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 82, 274-80	5.4	28
100	Human interleukin-23 receptor antagonists derived from an albumin-binding domain scaffold inhibit IL-23-dependent ex vivo expansion of IL-17-producing T-cells. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 975-89	4.2	27
99	Biosensing enhancement using passive mixing structures for microarray-based sensors. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 506-14	11.8	26
98	Enhanced levels of mitochondrial enzyme 17beta-hydroxysteroid dehydrogenase type 10 in patients with Alzheimer disease and multiple sclerosis. <i>Molecular BioSystems</i> , 2009 , 5, 1174-9		26
97	Molecular arrangement of adsorbed fibrinogen molecules characterized by specific monoclonal antibodies and a surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 268-272	8.5	25
96	Surface interactions of oxidized cellulose with fibrin(ogen) and blood platelets. <i>Sensors and Actuators B: Chemical</i> , 2003 , 90, 243-249	8.5	24
95	Surface plasmon resonance biosensor based on engineered proteins for direct detection of interferon-gamma in diluted blood plasma. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 306-311	8.5	23
94	Optical multilayers for LED-based surface plasmon resonance sensors. <i>Applied Optics</i> , 2006 , 45, 3752-9	1.7	23
93	Advanced data processing for SPR biosensors. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 162-169	8.5	23
92	Simultaneous excitation of long and short range surface plasmons in an asymmetric structure. <i>Optics Communications</i> , 2006 , 259, 507-512	2	22
91	Peptide Functionalization of Gold Nanoparticles for the Detection of Carcinoembryonic Antigen in Blood Plasma via SPR-Based Biosensor. <i>Frontiers in Chemistry</i> , 2019 , 7, 40	5	21
90	SURFACE PLASMON RESONANCE BIOSENSORS 2008 , 185-242		21
89	Antibody networks for surface plasmon resonance immunosensors. <i>Sensors and Actuators B: Chemical</i> , 1999 , 54, 132-136	8.5	21
88	(Bio)Sensing Using Nanoparticle Arrays: On the Effect of Analyte Transport on Sensitivity. <i>Analytical Chemistry</i> , 2016 , 88, 12145-12151	7.8	19
87	Surface plasmon resonance biosensor for detection of pregnancy associated plasma protein A2 in clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7265-9	4.4	19

86	Surface Plasmon Resonance Biosensors 2002 , 207-251		19
85	Biosensor Enhancement Using Grooved Micromixers: Part II, Experimental Studies. <i>Analytical Chemistry</i> , 2015 , 87, 5524-30	7.8	18
84	Testing gold nanostructures fabricated by hole-mask colloidal lithography as potential substrates for SERS sensors: sensitivity, signal variability, and the aspect of adsorbate deposition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19613-20	3.6	18
83	5FO-Methylphosphonate nucleic acids--new modified DNAs that increase the Escherichia coli RNase H cleavage rate of hybrid duplexes. <i>Nucleic Acids Research</i> , 2014 , 42, 5378-89	20.1	18
82	Surface plasmon resonance biosensor for the detection of tau-amyloid β complex. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128146	8.5	16
81	Toward single-molecule detection with sensors based on propagating surface plasmons. <i>Optics Letters</i> , 2012 , 37, 163-5	3	16
80	Surface plasmon resonance biosensor for the ultrasensitive detection of bisphenol A. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 5655-5658	4.4	15
79	Protein β -mediated effects on rat hippocampal choline transporters CHT1 and β -amyloid β interactions. <i>Neurochemical Research</i> , 2013 , 38, 1949-59	4.6	15
78	Diffraction grating-coupled surface plasmon resonance sensor based on spectroscopy of long-range and short-range surface plasmons 2007 ,		15
77	Multiple beam interference lithography: A tool for rapid fabrication of plasmonic arrays of arbitrary shaped nanomotifs. <i>Optics Express</i> , 2016 , 24, 15656-65	3.3	14
76	Surface-Enhanced Raman Scattering on Gold Nanohole Arrays in Symmetrical Dielectric Environments Exhibiting Electric Field Extension. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25519-25529 ^{3.8}	3.8	14
75	Portable Surface Plasmon Resonance Biosensor for Detection of Nucleic Acids. <i>Procedia Engineering</i> , 2011 , 25, 148-151		14
74	Streptavidin-enhanced assay for sensitive and specific detection of single nucleotide polymorphism in TP53. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 2343-50	4.4	14
73	Analytical value of detecting an individual molecular binding event: the case of the surface plasmon resonance biosensor. <i>Analytical Chemistry</i> , 2012 , 84, 30-3	7.8	13
72	Surface plasmon resonance study on HIV-1 integrase strand transfer activity. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1165-72	4.4	13
71	Surface Plasmon Resonance (SPR) Sensors for the Detection of Bacterial Pathogens 2008 , 83-108		13
70	Spectroscopy of Bragg-scattered surface plasmons for characterization of thin biomolecular films. <i>Optics Letters</i> , 2007 , 32, 2903-5	3	13
69	Nanoplasmonic Ruler for Measuring Separation Distance between Supported Lipid Bilayers and Oxide Surfaces. <i>Analytical Chemistry</i> , 2018 , 90, 12503-12511	7.8	13

68	Surface-plasmon optical-heterodyne clock biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 336-344	8.4	12
67	Surface plasmon resonance sensor based on planar light pipe: theoretical optimization analysis. <i>Sensors and Actuators B: Chemical</i> , 1996 , 37, 145-150	8.5	12
66	The Scavenger Receptor SSc5D Physically Interacts with Bacteria through the SRCR-Containing N-Terminal Domain. <i>Frontiers in Immunology</i> , 2016 , 7, 416	8.4	12
65	Biosensor enhancement using grooved micromixers: part I, numerical studies. <i>Analytical Chemistry</i> , 2015 , 87, 5516-23	7.8	11
64	Actuated plasmonic nanohole arrays for sensing and optical spectroscopy applications. <i>Nanoscale</i> , 2020 , 12, 9756-9768	7.7	11
63	SPR Sensor Instrumentation. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 95-116	2	11
62	Novel approach to surface plasmon resonance multichannel sensing 2001 , 4416, 86		11
61	Monitoring RAYT activity by surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3985-93	4.4	10
60	Surface Plasmon Resonance Biosensor for Determination of Tetrodotoxin: Prevalidation Study. <i>Journal of AOAC INTERNATIONAL</i> , 2011 , 94, 596-604	1.7	10
59	Novel surface plasmon resonance sensor based on single-mode optical fiber 1997 ,		9
58	Biomolecular charges influence the response of surface plasmon resonance biosensors through electronic and ionic mechanisms. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 365-372	11.8	9
57	Molecularly Imprinted Polymer Waveguides for Direct Optical Detection of Low-Molecular-Weight Analytes. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 2295-2304	2.6	8
56	A dual surface plasmon resonance assay for the determination of ribonuclease H activity. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1605-11	11.8	8
55	SPR Biosensors for Detection of Biological and Chemical Analytes. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 177-190	2	8
54	Molecular Interactions in SPR Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 69-91	2	8
53	Optical sensing of the initial stages in the growth and development of fibrin clot. <i>Sensors and Actuators B: Chemical</i> , 2001 , 74, 69-73	8.5	8
52	Surface Plasmon Resonance Biosensors for Food Safety 2004 , 145-172		8
51	Ambiguous Refractive Index Sensitivity of Fano Resonance on an Array of Gold Nanoparticles. <i>Plasmonics</i> , 2014 , 9, 729-735	2.4	7

50	SPR Biosensors for Medical Diagnostics. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 229-247		7
49	Neuroinflammation and complexes of 17 β -hydroxysteroid dehydrogenase type 10--amyloid β in Alzheimer's disease. <i>Current Alzheimer Research</i> , 2013 , 10, 165-73	3	7
48	A New Approach for the Diagnosis of Myelodysplastic Syndrome Subtypes Based on Protein Interaction Analysis. <i>Scientific Reports</i> , 2019 , 9, 12647	4.9	6
47	Novel polarization control for high-throughput surface plasmon resonance sensors 2007 ,		6
46	Model of a chemo-optical sensor based on plasmon excitation in thin silver films. <i>Sensors and Actuators B: Chemical</i> , 1993 , 11, 481-485	8.5	6
45	SURFACE PLASMON RESONANCE (SPR) BIOSENSORS AND THEIR APPLICATIONS IN FOOD SAFETY AND SECURITY 2006 , 101-118		5
44	Fiber optic sensor for adsorption studies using surface plasmon resonance 1995 ,		5
43	Interactions of 17 β -Hydroxysteroid Dehydrogenase Type 10 and Cyclophilin D in Alzheimer's Disease. <i>Neurochemical Research</i> , 2020 , 45, 915-927	4.6	5
42	Analyte transport to micro- and nano-plasmonic structures. <i>Lab on A Chip</i> , 2019 , 19, 4117-4127	7.2	5
41	Direct optical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3881-2	4.4	4
40	In vitro study of interaction of 17 β -hydroxysteroid dehydrogenase type 10 and cyclophilin D and its potential implications for Alzheimer's disease. <i>Scientific Reports</i> , 2019 , 9, 16700	4.9	4
39	Sensitive Detection of Interferon-Gamma with Engineered Proteins and Surface Plasmon Resonance Biosensor. <i>Procedia Engineering</i> , 2011 , 25, 940-943		4
38	Fabrication of nanoplasmonic arrays with square symmetry using spin-coating method. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2528-32	1.3	4
37	SPR sensor based on a bi-diffractive grating 2007 ,		4
36	SPR Biosensors for Environmental Monitoring. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 191-206	2	4
35	High-performance biosensor exploiting a light guidance in sparse arrays of metal nanoparticles. <i>Optics Letters</i> , 2019 , 44, 1568-1571	3	4
34	Plasmonic biosensor based on a gold nanostripe array for detection of microRNA related to myelodysplastic syndromes. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130629	8.5	4
33	Detecting attomolar concentrations of microRNA related to myelodysplastic syndromes in blood plasma using a novel sandwich assay with nanoparticle release. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113613	11.8	4

32	Microfluidic Analyte Transport to Nanorods for Photonic and Electrochemical Sensing Applications. <i>Chemistry - A European Journal</i> , 2018 , 24, 12031-12036	4.8	3
31	Pregnancy-Associated Plasma Protein A2 in Hemodialysis Patients: Significance for Prognosis. <i>Kidney and Blood Pressure Research</i> , 2017 , 42, 509-518	3.1	3
30	Surface plasmon resonance biosensors: advances and applications 2009 ,		3
29	Surface plasmon resonance biosensors for detection of foodborne pathogens and toxins 2009 ,		3
28	SPR Biosensors for Food Safety. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 207-227	2	3
27	Interaction of Tris with DNA molecules and carboxylic groups on self-assembled monolayers of alkanethiols measured with surface plasmon resonance. <i>Applied Surface Science</i> , 2021 , 546, 148984	6.7	3
26	Cavity-enhanced surface-plasmon resonance sensing: modeling and performance. <i>Measurement Science and Technology</i> , 2014 , 25, 015205	2	2
25	Comparison of 2D planar approximation and rigorous 3D theoretical analysis of a fiber optic surface plasmon resonance sensor utilizing a Bragg grating 2010 ,		2
24	Modelling and characterisation of surface plasmon based sensors for the detection of E. coli. <i>Journal of Modern Optics</i> , 2009 , 56, 564-571	1.1	2
23	Optical biosensing using surface plasmon resonance spectroscopy 1997 ,		2
22	Advances in development of miniature fiber optic surface plasmon resonance sensors 2001 ,		2
21	Novel approach to multichannel SPR sensing 1999 , 3857, 198		2
20	Hsp70 Trap Assay for Detection of Misfolded Subproteome Related to Myelodysplastic Syndromes. <i>Analytical Chemistry</i> , 2019 , 91, 14226-14230	7.8	1
19	Convenient Method of Micrometer-Scale Excitation of Propagating Surface Plasmons by a Focused Laser Beam. <i>Plasmonics</i> , 2014 , 9, 737-739	2.4	1
18	Surface plasmon resonance biosensing 2009 ,		1
17	Consideration of photonic and mass-transfer aspects on the performance of a biosensor based on localized surface plasmons on an array of gold cylinders 2012 ,		1
16	Surface plasmon resonance imaging for parallelized detection of protein biomarkers 2009 ,		1
15	Compact multi-channel high-sensitivity biosensor based on spectroscopy of surface plasmons 2009 ,		1

14	Surface plasmon resonance biosensors 2007 , 6619, 68		1
13	Reference-compensated surface plasmon resonance biosensor for detection of foodborne pathogens 2001 ,		1
12	Anchored linear oligonucleotides: the effective tool for the real-time measurement of uracil DNA glycosylase activity. <i>Open Biology</i> , 2021 , 11, 210136	7	1
11	Study of Biomolecular Interactions of Mitochondrial Proteins Related to Alzheimer's Disease: Toward Multi-Interaction Biomolecular Processes. <i>Biomolecules</i> , 2020 , 10,	5.9	1
10	Ionic Environment Affects Biomolecular Interactions of Amyloid- β SPR Biosensor Study. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
9	SENSORS BASED ON SPECTROSCOPY OF GUIDED WAVES 2006 , 179-192		1
8	Performance of label-free optical biosensors: What is figure of merit (not) telling us?. <i>Biosensors and Bioelectronics</i> , 2022 , 212, 114426	11.8	0
7	Surface Plasmons for Biodetection 2012 , 1-58		
6	Comparative surface plasmon spectroscopy for characterisation of thin films. <i>Electronics Letters</i> , 2008 , 44, 1085	1.1	
5	Surface plasmon resonance analysis of immobilized fibrinogen and fibrin and their interaction with thrombin and fibrinogen 1999 , 3570, 176		
4	Rapid Simultaneous Detection of Multiple Micro-Ribonucleic Acids By Surface Plasmon Resonance Array in Cell Lysates of Myelodysplastic Syndromes Patients. <i>Blood</i> , 2014 , 124, 5605-5605	2.2	
3	Protein-Protein Interaction Analysis in Blood Plasma of Patients with Myelodysplastic Syndromes By Surface Plasmon Resonance Imaging and Mass Spectrometry. <i>Blood</i> , 2014 , 124, 5623-5623	2.2	
2	The Potential Prognostic Markers for Myelodysplastic Syndromes Studied By Surface Plasmon Resonance Imaging and Mass Spectrometry. <i>Blood</i> , 2016 , 128, 5510-5510	2.2	
1	The 70-KDa Heat Shock Protein Surface Plasmon Resonance Biosensor for Examination of Blood Plasma Proteome in Myelodysplastic Syndromes Subgroups. <i>Blood</i> , 2016 , 128, 5521-5521	2.2	