

Jiri Homola

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.

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	Advances and applications of nanophotonic biosensors.. <i>Nature Nanotechnology</i> , 2022 , 17, 5-16	28.7	38
210	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
209	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
208	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
207	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
206	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
205	Actuated plasmonic nanohole arrays for sensing and optical spectroscopy applications. <i>Nanoscale</i> , 2020 , 12, 9756-9768	7.7	11
204	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
203	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
202	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
201	Ionic Environment Affects Biomolecular Interactions of Amyloid- β SPR Biosensor Study. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
200	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
199	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
198	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
197	Surface plasmon resonance biosensor for the ultrasensitive detection of bisphenol A. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 5655-5658	4.4	15
196	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
195	Hsp70 Trap Assay for Detection of Misfolded Subproteome Related to Myelodysplastic Syndromes. <i>Analytical Chemistry</i> , 2019 , 91, 14226-14230	7.8	1

194	High-performance biosensor exploiting a light guidance in sparse arrays of metal nanoparticles. <i>Optics Letters</i> , 2019 , 44, 1568-1571	3	4
193	Analyte transport to micro- and nano-plasmonic structures. <i>Lab on A Chip</i> , 2019 , 19, 4117-4127	7.2	5
192	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
191	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
190	Microfluidic Analyte Transport to Nanorods for Photonic and Electrochemical Sensing Applications. <i>Chemistry - A European Journal</i> , 2018 , 24, 12031-12036	4.8	3
189	Surface-plasmon optical-heterodyne clock biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 336-344	3.4	12
188	Nanoplasmonic Ruler for Measuring Separation Distance between Supported Lipid Bilayers and Oxide Surfaces. <i>Analytical Chemistry</i> , 2018 , 90, 12503-12511	7.8	13
187	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
186	Functional gold nanoparticles for optical affinity biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4087-4097	4.4	34
185	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
184	Optical Biosensors Based on Plasmonic Nanostructures: A Review. <i>Proceedings of the IEEE</i> , 2016 , 104, 2380-2408	14.3	225
183	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
182	Copolymer Brush-Based Ultralow-Fouling Biorecognition Surface Platform for Food Safety. <i>Analytical Chemistry</i> , 2016 , 88, 10533-10539	7.8	32
181	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	14
180	(Bio)Sensing Using Nanoparticle Arrays: On the Effect of Analyte Transport on Sensitivity. <i>Analytical Chemistry</i> , 2016 , 88, 12145-12151	7.8	19
179	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
178	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
177	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

176	Nanoplasmonic ruler to measure lipid vesicle deformation. <i>Chemical Communications</i> , 2016 , 52, 76-9	5.8	41
175	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	
174	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	
173	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
172	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
171	Monitoring RAYT activity by surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3985-93	4.4	10
170	Direct optical detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3881-2	4.4	4
169	Biosensor enhancement using grooved micromixers: part I, numerical studies. <i>Analytical Chemistry</i> , 2015 , 87, 5516-23	7.8	11
168	Biosensor Enhancement Using Grooved Micromixers: Part II, Experimental Studies. <i>Analytical Chemistry</i> , 2015 , 87, 5524-30	7.8	18
167	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
166	Ambiguous Refractive Index Sensitivity of Fano Resonance on an Array of Gold Nanoparticles. <i>Plasmonics</i> , 2014 , 9, 729-735	2.4	7
165	Biosensing enhancement using passive mixing structures for microarray-based sensors. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 506-14	11.8	26
164	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
163	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
162	Cavity-enhanced surface-plasmon resonance sensing: modeling and performance. <i>Measurement Science and Technology</i> , 2014 , 25, 015205	2	2
161	5TO-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
160	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
159	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

158	Enhancing sensitivity of surface plasmon resonance biosensors by functionalized gold nanoparticles: size matters. <i>Analytical Chemistry</i> , 2014 , 86, 10350-6	7.8	98
157	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
156	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	
155	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	
154	Protein Mediated effects on rat hippocampal choline transporters CHT1 and Amyloid β interactions. <i>Neurochemical Research</i> , 2013 , 38, 1949-59	4.6	15
153	Plasmonic Nanoantennas for Multispectral Surface-Enhanced Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18620-18626	3.8	56
152	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
151	Ultrasensitive broadband probing of molecular vibrational modes with multifrequency optical antennas. <i>ACS Nano</i> , 2013 , 7, 669-75	16.7	106
150	Surface plasmon resonance sensing of nucleic acids: a review. <i>Analytica Chimica Acta</i> , 2013 , 773, 9-23	6.6	194
149	Label-free biosensing in complex media: a referencing approach. <i>Analytical Chemistry</i> , 2013 , 85, 5637-40	7.8	34
148	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
147	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
146	Compact surface plasmon-enhanced fluorescence biochip. <i>Optics Express</i> , 2013 , 21, 10121-32	3.3	46
145	Sensing properties of lattice resonances of 2D metal nanoparticle arrays: an analytical model. <i>Optics Express</i> , 2013 , 21, 27490-502	3.3	42
144	Surface plasmon resonance optical cavity enhanced refractive index sensing. <i>Optics Letters</i> , 2013 , 38, 1951-3	3	28
143	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
142	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
141	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

140 Surface Plasmons for Biodetection **2012**, 1-58

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| 139 | 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 |
| 138 | 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 |
| 137 | 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 |
| 136 | Label-free slot-waveguide biosensor for the detection of DNA hybridization. <i>Applied Optics</i> , 2012 , 51, 8195-202 | 1.7 | 50 |
| 135 | High-resolution biosensor based on localized surface plasmons. <i>Optics Express</i> , 2012 , 20, 672-80 | 3.3 | 85 |
| 134 | Surface plasmon-coupled emission on plasmonic Bragg gratings. <i>Optics Express</i> , 2012 , 20, 14042-53 | 3.3 | 35 |
| 133 | Toward single-molecule detection with sensors based on propagating surface plasmons. <i>Optics Letters</i> , 2012 , 37, 163-5 | 3 | 16 |
| 132 | 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 |
| 131 | Portable Surface Plasmon Resonance Biosensor for Detection of Nucleic Acids. <i>Procedia Engineering</i> , 2011 , 25, 148-151 | | 14 |
| 130 | Sensitive Detection of Interferon-Gamma with Engineered Proteins and Surface Plasmon Resonance Biosensor. <i>Procedia Engineering</i> , 2011 , 25, 940-943 | | 4 |
| 129 | Local refractive index sensitivity of plasmonic nanoparticles. <i>Optics Express</i> , 2011 , 19, 9213-20 | 3.3 | 59 |
| 128 | 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 |
| 127 | Surface Plasmon Resonance Biosensor for Determination of Tetrodotoxin: Prevalidation Study. <i>Journal of AOAC INTERNATIONAL</i> , 2011 , 94, 596-604 | 1.7 | 10 |
| 126 | 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 |
| 125 | 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 |
| 124 | Tailoring plasmonic nanostructures for optimal SERS sensing of small molecules and large microorganisms. <i>Small</i> , 2011 , 7, 371-6 | 11 | 46 |
| 123 | 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, 10996-10029 | 3.8 | 29 |

122	Comparison of 2D planar approximation and rigorous 3D theoretical analysis of a fiber optic surface plasmon resonance sensor utilizing a Bragg grating 2010 ,		2
121	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
120	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
119	An SPR biosensor for the detection of microcystins in drinking water. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2625-34	4.4	62
118	Detection of bisphenol A using a novel surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1963-6	4.4	44
117	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
116	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
115	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
114	High-performance compact SPR sensor for multi-analyte sensing. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 544-549	8.5	46
113	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
112	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
111	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
110	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
109	Surface plasmon resonance biosensing 2009 ,		1
108	Long-range surface plasmons for sensitive detection of bacterial analytes. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 59-63	8.5	98
107	High-throughput SPR sensor for food safety. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1399-404	11.8	163
106	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
105	Surface plasmon resonance study on HIV-1 integrase strand transfer activity. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1165-72	4.4	13

104	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
103	Surface plasmon resonance biosensors for detection of Alzheimer disease biomarker. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 69-73	8.5	54
102	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
101	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
100	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
99	Surface plasmon resonance (SPR) sensors: approaching their limits?. <i>Optics Express</i> , 2009 , 17, 16505-17	3.3	491
98	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
97	Surface plasmon resonance biosensors: advances and applications 2009 ,		3
96	Surface plasmon resonance biosensing. <i>Methods in Molecular Biology</i> , 2009 , 503, 65-88	1.4	130
95	Surface plasmon resonance biosensors for detection of foodborne pathogens and toxins 2009 ,		3
94	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
93	Surface plasmon resonance imaging for parallelized detection of protein biomarkers 2009 ,		1
92	Compact multi-channel high-sensitivity biosensor based on spectroscopy of surface plasmons 2009 ,		1
91	Optical sensors based on spectroscopy of localized surface plasmons on metallic nanoparticles: sensitivity considerations. <i>Biointerphases</i> , 2008 , 3, FD4-11	1.8	65
90	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
89	Surface plasmon resonance sensors for detection of chemical and biological species. <i>Chemical Reviews</i> , 2008 , 108, 462-93	68.1	2982
88	Surface Plasmon Resonance (SPR) Sensors for the Detection of Bacterial Pathogens 2008 , 83-108		13
87	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

86	Comparative surface plasmon spectroscopy for characterisation of thin films. <i>Electronics Letters</i> , 2008 , 44, 1085	1.1	
85	SURFACE PLASMON RESONANCE BIOSENSORS 2008 , 185-242		21
84	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
83	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
82	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
81	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
80	Novel polarization control for high-throughput surface plasmon resonance sensors 2007 ,		6
79	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
78	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
77	Ultrahigh resolution long range surface plasmon-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 10-12	8.5	207
76	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
75	Multichannel SPR biosensor for detection of endocrine-disrupting compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 1841-7	4.4	45
74	Surface plasmon resonance biosensors 2007 , 6619, 68		1
73	SPR sensor based on a bi-diffractive grating 2007 ,		4
72	Spectroscopy of Bragg-scattered surface plasmons for characterization of thin biomolecular films. <i>Optics Letters</i> , 2007 , 32, 2903-5	3	13
71	Diffraction grating-coupled surface plasmon resonance sensor based on spectroscopy of long-range and short-range surface plasmons 2007 ,		15
70	Investigating oligonucleotide hybridization at subnanomolar level by surface plasmon resonance biosensor method. <i>Biopolymers</i> , 2006 , 82, 394-8	2.2	38
69	SPR Biosensors for Food Safety. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 207-227	2	3

68	SURFACE PLASMON RESONANCE (SPR) BIOSENSORS AND THEIR APPLICATIONS IN FOOD SAFETY AND SECURITY 2006 , 101-118		5
67	Electromagnetic Theory of Surface Plasmons. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 3-44	2	65
66	Surface Plasmon Resonance Based Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 ,	2	521
65	Advanced biosensing using simultaneous excitation of short and long range surface plasmons. <i>Measurement Science and Technology</i> , 2006 , 17, 932-938	2	48
64	SPR Biosensors for Detection of Biological and Chemical Analytes. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 177-190	2	8
63	SPR Biosensors for Environmental Monitoring. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 191-206	2	4
62	SPR Biosensors for Medical Diagnostics. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 229-247		7
61	Molecular Interactions in SPR Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 69-91	2	8
60	SPR Sensor Instrumentation. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 95-116	2	11
59	New approach to spectroscopy of surface plasmons. <i>Optics Letters</i> , 2006 , 31, 3339-41	3	36
58	Surface Plasmon Resonance (SPR) Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006 , 45-67		128
57	Optical multilayers for LED-based surface plasmon resonance sensors. <i>Applied Optics</i> , 2006 , 45, 3752-9	1.7	23
56	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
55	Multiple surface plasmon spectroscopy for study of biomolecular systems. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 774-781	8.5	57
54	Simultaneous excitation of long and short range surface plasmons in an asymmetric structure. <i>Optics Communications</i> , 2006 , 259, 507-512	2	22
53	SENSORS BASED ON SPECTROSCOPY OF GUIDED WAVES 2006 , 179-192		1
52	Multi-analyte surface plasmon resonance biosensing. <i>Methods</i> , 2005 , 37, 26-36	4.6	162
51	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

50	Advanced data processing for SPR biosensors. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 162-169	8.5	23
49	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
48	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
47	A new surface plasmon resonance sensor for high-throughput screening applications. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2104-10	11.8	147
46	Multichannel surface plasmon resonance biosensor with wavelength division multiplexing. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 758-764	8.5	98
45	DNA-directed protein immobilization on mixed self-assembled monolayers via a streptavidin bridge. <i>Langmuir</i> , 2004 , 20, 8090-5	4	117
44	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
43	Surface Plasmon Resonance Biosensors for Food Safety 2004 , 145-172		8
42	Present and future of surface plasmon resonance biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 528-39	4.4	1617
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