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Towards integrated and sensitive surface plasmon resonance biosensors: a review of recent progress

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Biosensors and Bioelectronics, 2007, 23, 151-60.

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#	Paper	IF	Citations
671	Enhancement of localized surface plasmon resonance detection by incorporating metal-dielectric double-layered subwavelength gratings. 2011 , 50, 2846		
670	Correlation analysis between plasmon field distribution and sensitivity enhancement in reflection- and transmission-type localized surface plasmon resonance biosensors. 2011 , 50, 4982		
669	Jir[Homola (Ed.): Surface plasmon resonance-based sensors. 2008 , 390, 1221-1222		17
668	Quantification of specific bindings of biomolecules by magnetorelaxometry. 2008 , 6, 4		35
667	Survey of the year 2007 commercial optical biosensor literature. 2008 , 21, 355-400		136
666	Bond-rupture immunosensors--a review. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1759-68	11.8	48
665	Phage-based label-free biomolecule detection in an opto-fluidic ring resonator. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 461-6	11.8	71
664	Sensitive optical biosensors for unlabeled targets: a review. <i>Analytica Chimica Acta</i> , 2008 , 620, 8-26	6.6	1527
663	Optimization of electrochemical aptamer-based sensors via optimization of probe packing density and surface chemistry. 2008 , 24, 10513-8		233
662	Biophysical approaches to study the dynamic process of bacterial adhesion. 2008 , 159, 415-22		28
661	Fundamental and higher-order Bloch surface plasmons in planar bimetallic gratings on silicon and glass substrates. 2008 , 25, 1414		5
660	Microring-resonator-based sensor measuring both the concentration and temperature of a solution. <i>Optics Express</i> , 2008 , 16, 9372-7	3.3	72
659	Sensitive molecular binding assay using a photonic crystal structure in total internal reflection. <i>Optics Express</i> , 2008 , 16, 11741-9	3.3	43
658	Excitation of s-polarized surface electromagnetic waves in inhomogeneous dielectric media. <i>Optics Express</i> , 2008 , 16, 13354-63	3.3	5
657	Strong influence of nonlinearity and surface plasmon excitations on the lateral shift. <i>Optics Express</i> , 2008 , 16, 15506-13	3.3	9
656	Numerical method for high accuracy index of refraction estimation for spectro-angular surface plasmon resonance systems. <i>Optics Express</i> , 2008 , 16, 19493-503	3.3	17
655	Plasmonic solar cells. <i>Optics Express</i> , 2008 , 16, 21793-800	3.3	1198

654	Encoded and multiplexed surface plasmon resonance sensor platform. <i>Analytical Chemistry</i> , 2008 , 80, 7862-9	7.8	17
653	SP virtual probe for sensing and imaging biological cells using femtosecond radially polarized beams. 2008 ,		
652	Effects of flow rate on sensitivity and affinity in flow injection biosensor systems studied by 55-MHz wireless quartz crystal microbalance. <i>Analytical Chemistry</i> , 2008 , 80, 5494-500	7.8	33
651	Photochemical modification and patterning of SU-8 using anthraquinone photoinitiators. 2008 , 24, 9929-32		12
650	Surface plasmon resonance assay for real-time monitoring of somatic coliphages in wastewaters. 2008 , 74, 4054-8		46
649	Spectro-angular surface plasmon biosensor applied to drug binding assays. 2009 ,		
648	Midinfrared surface-plasmon resonance: A novel biophysical tool for studying living cells. 2009 , 105, 102036		47
647	Formation dynamics of hexadecanethiol self-assembled monolayers on (001) GaAs observed with photoluminescence and Fourier transform infrared spectroscopies. 2009 , 106, 083518		18
646	Label-free biosensor based on localized surface plasmon resonance in a multi-channel microfluidic chip. 2009 ,		
645	Effective energy coupling and preservation in a surface plasmon-light emitter coupling system on a metal nanostructure. 2009 , 20, 135202		1
644	Label-free biosensing using a photonic crystal structure in a total-internal-reflection geometry. <i>Proceedings of SPIE</i> , 2009 , 7188, 71880B-71880B12	1.7	2
643	Preliminary Recognition of c-Myc Gene Protein Using an Optical Biosensor with Gold Colloid Nanoparticles Based on Localized Surface Plasmon Resonance. <i>Analytical Letters</i> , 2009 , 42, 2820-2837	2.2	9
642	In Pursuit of Zero: Polymer Brushes that Resist the Adsorption of Proteins. 2009 , 21, 2441-2446		457
641	Large and anisotropic third-order nonlinear optical response from anisotropy-controlled metallic nanocomposites. 2009 , 282, 4157-4161		12
640	Parallel acoustic detection of biological warfare agents surrogates by means of piezoelectric immunochips. 2009 , 138, 532-538		15
639	Localized surface plasmon resonance biosensor integrated with microfluidic chip. 2009 , 11, 893-901		72
638	Surface plasmon resonance immunosensor for cortisol and cortisone determination. 2009 , 394, 2151-9		50
637	Coupling surface plasmon resonance to mass spectrometry to discover novel protein-protein interactions. 2009 , 4, 1023-37		32

636	An on-chip localized surface plasmon resonance-based biosensor for label-free monitoring of antigen-antibody reaction. 2009 , 86, 2437-2441		29
635	Monolithically integrated surface plasmon resonance sensor based on focusing diffractive optic element for optofluidic platforms. 2009 , 138, 441-445		8
634	Anisotropy in the nonlinear absorption of elongated silver nanoparticles in silica, probed by femtosecond pulses. 2009 , 282, 1909-1912		21
633	A disposable polymer sensor chip combined with micro-fluidics and surface plasmon read-out. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1783-7	11.8	9
632	Surface plasmon resonance spectro-imaging sensor for biomolecular surface interaction characterization. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2100-5	11.8	53
631	Surface plasmon resonance immunosensor for early diagnosis of Asian rust on soybean leaves. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2483-7	11.8	26
630	Sensing based on assessment of non-monotonous effect determined by target analyte: case study on pore-forming compounds. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3517-23	11.8	15
629	Plasmonic components fabrication via nanoimprint. 2009 , 11, 114001		84
628	Optical and electrical characteristics of Ag-doped perylene diimide derivative. 2009 , 94, 013307		20
627	Optical biosensors for probing at the cellular level: a review of recent progress and future prospects. 2009 , 20, 27-33		99
626	Bulk sensing experiments using a surface-plasmon interferometer. 2009 , 34, 2858-60		17
625	Effect of target localization on the sensitivity of a localized surface plasmon resonance biosensor based on subwavelength metallic nanostructures. 2009 , 26, 1027-34		40
624	Long-range surface plasmon-polariton waveguide sensors with a Bragg grating in the asymmetric double-electrode structure. <i>Optics Express</i> , 2009 , 17, 10606-11	3-3	19
623	Sensitivity enhancement in grating coupled surface plasmon resonance by azimuthal control. <i>Optics Express</i> , 2009 , 17, 12145-54	3-3	46
622	Anisotropic linear and nonlinear optical properties from anisotropy-controlled metallic nanocomposites. <i>Optics Express</i> , 2009 , 17, 12849-68	3-3	36
621	Design and optimization of a novel surface plasmon resonance biosensor based on Otto configuration. <i>Optics Express</i> , 2009 , 17, 23511-21	3-3	47
620	Nanorod-mediated surface plasmon resonance sensor based on effective medium theory. 2009 , 48, 4637-49		23
619	Label-Free Biosensing with the Optofluidic Ring Resonator. 2009 , 377-393		1

618	Extremely high efficient coupling between long range surface plasmon polariton and dielectric waveguide mode. 2009 , 95, 091104		17
617	Tiny medicine: nanomaterial-based biosensors. <i>Sensors</i> , 2009 , 9, 9275-99	3.8	57
616	Theoretical analysis and fabrication of PDMS-based surface plasmon resonance sensor chips. 2009 ,		1
615	Adaptive non-uniform, hyper-elitist evolutionary method for the optimization of plasmonic biosensors. 2009 ,		5
614	Label-free biosensors on silicon-on-insulator optical chips. 2009 ,		1
613	Nano-pillar structure for sensitivity enhancement of SPR sensor. 2009 ,		3
612	Novel Optical Nanobiosensor Based on Localized Surface Plasmon Resonance Assembled with Gold Colloid Nanoparticles. 2009 ,		
611	[Highly sensitive detection technology for biological toxins applying sugar epitopes]. 2009 , 129, 93-106		0
610	Sampling and quantification of biofilms in food processing and other environments. 2009 , 539-568		4
609	Label-free and dynamic detection of biomolecular interactions based on surface plasmon resonance imaging for high-throughput microarray applications. 2009 ,		1
608	Portable surface plasmon resonance instrument based on a monolithic scanner chip. 2010 ,		3
607	Real-time small molecule binding detection using a label-free photonic crystal biosensor. 2010 ,		1
606	From nanotechnology to nanomedicine: applications to cancer research. 2010 , 10, 640-52		116
605	Spherical and Anisotropic Silver Nanomaterials in Medical Diagnosis. 2010 ,		
604	Localized Surface Plasmon Coupled Fluorescence Fiber Optic Based Biosensing. 2010 , 183-259		0
603	Label-Free Ultrathin Pt Film Biosensor Using Phonon Vibrations Excited by Ultrafast Light Pulses. 2010 , 3, 017001		4
602	Concentration Determination of Individual Components in Methanol/Raffinose Mixtures Using Diffusion through Agar Membrane Attached to a Surface Plasmon Resonance Sensor. 2010 , 83, 1531-1533		3
601	Surface plasmon resonance analysis of antibiotics using imprinted boronic acid-functionalized Au nanoparticle composites. <i>Analytical Chemistry</i> , 2010 , 82, 2512-9	7.8	166

600	Biopharmaceutical production: Applications of surface plasmon resonance biosensors. 2010 , 878, 149-53		33
599	Comparative surface plasmon resonance and enzyme-linked immunosorbent assay characterisation of a monoclonal antibody with N-acyl homoserine lactones. <i>Analytica Chimica Acta</i> , 2010 , 683, 113-8	6.6	8
598	High-sensitive flow-based kinetic exclusion assay for okadaic acid assessment in shellfish samples. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1395-401	11.8	20
597	Multi-purpose optical biosensors for real-time detection of bacteria, viruses and toxins. 2010 , 149, 233-238		36
596	PDMS prism-glass optical coupling for surface plasmon resonance sensors based on MEMS technology. 2010 , 53, 2144-2158		5
595	Modelling of Polarization-Dependent Loss in Plasmonic Nanowire Waveguides. 2010 , 5, 75-77		12
594	Theoretical Investigation of an Interferometer-type Plasmonic Biosensor Using a Metal-insulator-silicon Waveguide. 2010 , 5, 347-354		17
593	Polymer Waveguide Label-Free Biosensors With Enhanced Sensitivity by Incorporating Low-Refractive-Index Polymers. 2010 , 16, 973-980		18
592	Silver nanocluster-silica composite coatings with antibacterial properties. 2010 , 120, 123-126		42
591	Analysis of adsorption of a baculovirus bioreaction bulk on an ion-exchange surface by surface plasmon resonance. 2010 , 148, 171-81		8
590	Improved functionality of antibody-colloidal gold conjugates with the aid of lipoamide-grafted N-[tris(hydroxymethyl)methyl]acrylamide polymers. 2010 , 348, 1-8		16
589	Modeling protein binding and elution over a chromatographic surface probed by surface plasmon resonance. 2010 , 1217, 2032-41		15
588	Polarization optimization for a full sensitivity in azimuthal grating coupled surface plasmon resonance. 2010 , 148, 181-185		2
587	Molecular self-assembly and passivation of GaAs (0 0 1) with alkanethiol monolayers: A view towards bio-functionalization. 2010 , 256, 5714-5721		31
586	Detection of Mycobacterium tuberculosis complex and Mycobacterium gordonae on the same portable surface plasmon resonance sensor. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 908-12	11.8	16
585	Application and Research Development of Surface Plasmon Resonance-based Immunosensors for Protein Detection. 2010 , 38, 1052-1059		20
584	Label-free attomolar detection of proteins using integrated nanoelectronic and electrokinetic devices. 2010 , 6, 967-73		69
583	Linear and Nonlinear Optical Properties of Aligned Elongated Silver Nanoparticles Embedded in Silica. 2010 ,		1

582	. 2010 ,			69
581	Biosensor technology in the treatment of cardiovascular disease. 2010 , 286-308			1
580	Adhesion of Viruses. 2010 , 195-220			1
579	Nucleic Acid Diagnostic Biosensors. 2010 , 343-363			1
578	Optical sensing and determination of complex reflection coefficients of plasmonic structures using transmission interferometric plasmonic sensor. 2010 , 81, 053102			20
577	Ferredoxin:NADPH oxidoreductase is recruited to thylakoids by binding to a polyproline type II helix in a pH-dependent manner. 2010 , 107, 19260-5			46
576	Recent advances in the development of nucleic acid diagnostics. 2010 , 7, 529-39			54
575	CMOS-integrated film bulk acoustic resonators for label-free biosensing. <i>Sensors</i> , 2010 , 10, 4180-93	3.8		53
574	Resolution enhancement in surface plasmon resonance sensor based on waveguide coupled mode by combining a bimetallic approach. <i>Sensors</i> , 2010 , 10, 11390-9	3.8		78
573	Label-free biosensors with enhanced sensitivity based on polymer waveguide Bragg reflectors. 2010 ,			
572	Multiplexed detection of biological agents using optical microchip sensors. 2010 ,			1
571	Simultaneous refractive index and thickness measurement with the transmission interferometric adsorption sensor. 2010 , 43, 405302			14
570	Magnetic nanoparticle enhanced surface plasmon resonance sensing and its application for the ultrasensitive detection of magnetic nanoparticle-enriched small molecules. <i>Analytical Chemistry</i> , 2010 , 82, 6782-9	7.8		116
569	Prospects of nanotechnology in clinical immunodiagnosics. <i>Sensors</i> , 2010 , 10, 6535-81	3.8		43
568	Microfluidic refractometer with integrated optical fibers and end-facet transmission gratings. 2010 , 81, 023103			17
567	Design analysis of doped-silicon surface plasmon resonance immunosensors in mid-infrared range. <i>Optics Express</i> , 2010 , 18, 19396-406	3.3		25
566	Tip-enhanced Raman scattering from bridged nanocones. <i>Optics Express</i> , 2010 , 18, 23790-5	3.3		13
565	Dual channel planar waveguide surface plasmon resonance biosensor for an aqueous environment. <i>Optics Express</i> , 2010 , 18, 24412-22	3.3		36

564	Ultrathin layer sensing based on hybrid coupler with short-range surface plasmon polariton and dielectric waveguide. 2010 , 35, 244-6		31
563	Disposable and compact integrated plasmonic sensor using a long-period grating. 2010 , 35, 3835-7		11
562	Development of Nanostructured Plasmonic Substrates for Enhanced Optical Biosensing. 2010 , 14, 65-76		34
561	A Compact Tunable VCSEL and a Built-in Wavelength Meter for a Portable Optical Resonant Reflection Biosensor Reader. 2010 , 14, 395-402		1
560	Glyco-biosensors: recent advances and applications for the detection of free and bound carbohydrates. 2010 , 135, 2471-80		47
559	Detection of prostate-specific antigen with a paired surface plasma wave biosensor. <i>Analytical Chemistry</i> , 2010 , 82, 3714-8	7.8	31
558	Vaccine Adjuvants. 2010 ,		4
557	Microbiological Detectors for Food Safety Applications. 2010 , 1		
556	Efficiently Harvesting Sun Light for Silicon Solar Cells through Advanced Optical Couplers and A Radial p-n Junction Structure. 2010 , 3, 784-802		19
555	Measuring surface charge density and particle height using surface plasmon resonance technique. <i>Analytical Chemistry</i> , 2010 , 82, 234-40	7.8	50
554	Integration and detection of biochemical assays in digital microfluidic LOC devices. 2010 , 10, 418-31		150
553	Grating coupler integrated photodiodes for plasmon resonance based sensing. 2011 , 11, 282-7		30
552	Numerical investigation of the performance of an SPR-based optical fiber sensor in an aqueous environment using finite-difference time domain. 2011 ,		7
551	Graphene oxide sheet-mediated silver enhancement for application to electrochemical biosensors. <i>Analytical Chemistry</i> , 2011 , 83, 648-53	7.8	155
550	Surface Plasmon Resonance on Nanoscale Organic Films. 2011 , 83-125		11
549	Short time-scale bacterial adhesion dynamics. 2011 , 715, 315-31		16
548	Nanotechnology-Based Modern Sensors and Biosensors. 2011 , 3-24		
547	Kinetic analysis of biomolecular interactions by surface plasmon enhanced ellipsometry. 2011 ,		

546	Advances in surface plasmon resonance sensing with nanoparticles and thin films: nanomaterials, surface chemistry, and hybrid plasmonic techniques. <i>Analytical Chemistry</i> , 2011 , 83, 8057-62	7.8	79
545	Surface Plasmon Resonance Spectroscopy in the Biosciences. 2011 , 225-247		
544	Optical microspherical resonators for biomedical sensing. <i>Sensors</i> , 2011 , 11, 785-805	3.8	79
543	Nano-Bio-Sensing. 2011 ,		6
542	. 2011 , 29, 1265-1273		14
541	Enhancement of localized surface plasmon resonance detection by incorporating metal-dielectric double-layered subwavelength gratings. 2011 , 50, 2846-54		14
540	Correlation analysis between plasmon field distribution and sensitivity enhancement in reflection- and transmission-type localized surface plasmon resonance biosensors. 2011 , 50, 4982		23
539	Wagon wheel fiber based multichannel plasmonic sensor. <i>Optics Express</i> , 2011 , 19, 22863-73	3.3	35
538	Birefringent porous silicon membranes for optical sensing. <i>Optics Express</i> , 2011 , 19, 26106-16	3.3	28
537	Fe ₃ O ₄ nanoparticles-enhanced SPR sensing for ultrasensitive sandwich bio-assay. 2011 , 84, 783-8		70
536	Mimicking nature's noses: from receptor deorphaning to olfactory biosensing. 2011 , 93, 270-96		95
535	Photonic crystal fibres in biomedical investigations. 2011 , 41, 284-301		32
534	Review of transducer principles for label-free biomolecular interaction analysis. 2011 , 1, 70-92		76
533	Label-Free Biosensor Technologies in Small Molecule Modulator Discovery. 245-258		
532	Adaptive Non-Uniform Particle Swarm Application to Plasmonic Design. 2011 , 2, 18-28		10
531	Localized surface plasmon resonance biosensing by electro-optic modulation with sensitivity and resolution tunability. 2011 , 109, 064703		1
530	Internal specular reflection from nanoparticle layers on the end face of optical fibers. 2011 , 109, 103114		7
529	Application of an enteric coat increases the resistance to gastric juices for swallowable biosensors. 2011 , 160, 379-383		2

528	Enhanced Sensitivity of Silicon-On-Insulator Surface Plasmon Interferometer With Additional Silicon Layer. 2011 , 3, 538-545		16
527	Micromachining of Optical Fibers Using Selective Etching Based on Phosphorus Pentoxide Doping. 2011 , 3, 627-632		24
526	Characterization and application of a surface modification designed for QCM-D studies of biotinylated biomolecules. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 407-13	11.8	30
525	Probing biomolecular interaction forces using an anharmonic acoustic technique for selective detection of bacterial spores. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 145-50	11.8	7
524	Embossable grating couplers for planar evanescent wave sensors. 2011 , 19,		14
523	Surface plasmon resonance platform technology for multi-parameter analyses on polymer chips. 2011 , 11, 566-572		33
522	Microfluidic-based biosensors toward point-of-care detection of nucleic acids and proteins. 2011 , 10, 231-247		178
521	Next generation microfluidic platforms for high-throughput protein biochemistry. 2011 , 22, 59-65		25
520	Fabrication of nanoscale plasmonic structures and their applications to photonic devices and biosensors. 2011 , 1, 153-162		26
519	Spectral features of specular reflection from nanoparticle films. 2011 , 8, 2673-2675		
518	Application of thin metal film elements in bioanalysis. 2011 , 34, 2779-89		16
517	Novel Method of Preparation of Gold-Nanoparticle-Doped TiO ₂ and SiO ₂ Plasmonic Thin Films: Optical Characterization and Comparison with Maxwell-Garnett Modeling. 2011 , 21, 3502-3507		49
516	Microfluidic chips for point-of-care immunodiagnostics. 2011 , 23, H151-76		349
515	Surface Plasmon Resonance and Quartz Crystal Microbalance Methods for Detection of Molecular Interactions. 2011 , 329-344		1
514	Optical biosensors to analyze novel biomarkers in oncology. 2011 , 4, 442-52		23
513	New trends in instrumental design for surface plasmon resonance-based biosensors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 1815-24	11.8	228
512	Integration of fiber optic-particle plasmon resonance biosensor with microfluidic chip. <i>Analytica Chimica Acta</i> , 2011 , 697, 75-82	6.6	47
511	Design of self-organizing microtubule networks for molecular communication. 2011 , 2, 16-24		89

510	Surface plasmon resonance detection of small molecule using split aptamer fragments. 2011 , 156, 893-898		39
509	Numerical investigation for SPR-based optical fiber sensor. 2011 , 157, 240-245		48
508	Surface chemistry at the liquid/solid interface. 2011 , 605, 1141-1145		36
507	Theoretical and experimental investigation of ultrahigh sensitivity of wavelength-interrogated infrared surface plasmon resonance sensors. 2011 ,		0
506	Diagnostic Test Sample Volume. 2011 , 10, 157-162		1
505	ENHANCEMENT OF SURFACE PLASMON RESONANCE USING COLLOIDAL GOLD NANOPARTICLES EMBEDDED IN A SILICA LAYER. 2011 , 06, 461-468		1
504	. 2011 ,		5
503	Passive fluidic chip composed of integrated vertical capillary tubes developed for on-site SPR immunoassay analysis targeting real samples. <i>Sensors</i> , 2012 , 12, 7095-108	3.8	8
502	Floating chip mounting system driven by repulsive force of permanent magnets for multiple on-site SPR immunoassay measurements. <i>Sensors</i> , 2012 , 12, 13964-84	3.8	5
501	Whispering Gallery Mode Microresonators for Biosensing. 2012 , 82, 55-63		3
500	Phase-detection-sensitivity enhancement of grating-coupled surface plasmon resonance sensor with light incident at nonzero azimuth angle. 2012 , 6, 063524		7
499	A REVERSIBLE OPTICAL SENSOR BASED ON CHITOSAN FILM FOR THE SELECTIVE DETECTION OF COPPER IONS. 2012 , 24, 453-459		9
498	Imaging slit-coupled surface plasmon polaritons using conventional optical microscopy. <i>Optics Express</i> , 2012 , 20, 10526-37	3.3	9
497	Design of plasmonic grating structures towards optimum signal discrimination for biosensing applications. <i>Optics Express</i> , 2012 , 20, 11357-69	3.3	15
496	Infrared surface plasmon resonance of AZO-Ag-AZO sandwich thin films. <i>Optics Express</i> , 2012 , 20, 23215-26	3.5	35
495	Optical fiber refractometers based on indium tin oxide coatings fabricated by sputtering. 2012 , 37, 28-30		21
494	Grating-coupled surface plasmon resonance in conical mounting with polarization modulation. 2012 , 37, 2718-20		17
493	Multiple resonance fiber-optic sensor with time division multiplexing for multianalyte detection. 2012 , 37, 3969-71		23

- 492 Nano-islands integrated evanescence-based lab-on-a-chip on silica-on-silicon and polydimethylsiloxane hybrid platform for detection of recombinant growth hormone. **2012**, 6, 46501 13
- 491 Far-field detection and imaging of surface plasmon polaritons by engineering sub-wavelength slit structure. **2012**,
- 490 Phase detection sensitivity enhancement of grating-coupled surface plasmon resonance (SPR) sensor using non-zero azimuth angle incident light. **2012**,
- 489 - Noninvasive and Quantitative Sensing of Tumor Physiology and Function via Steady-State Diffuse Optical Spectroscopy. **2012**, 212-233
- 488 Synthesis of steroid-oligonucleotide conjugates for a DNA site-encoded SPR immunosensor. **2012**, 23, 2183-91 14
- 487 Development of a label-free competitive ligand binding assay with human serum albumin on a molecularly engineered surface plasmon resonance sensor chip. **2012**, 4, 3718 9
- 486 Plasmonic-based electrochemical impedance spectroscopy: application to molecular binding. *Analytical Chemistry*, **2012**, 84, 327-33 7.8 60
- 485 A highly sensitive photonic crystal fibre (PCF) surface plasmon resonance (SPR) sensor based on a bimetallic structure of gold and silver. **2012**, 17
- 484 Numerical Analysis of a Photonic Crystal Fiber for Biosensing Applications. **2012**, 48, 1403-1410 195
- 483 Advances in the study of protein-DNA interaction. **2012**, 43, 1141-6 30
- 482 Effect of thermal treatments on sputtered silver nanocluster/silica composite coatings on soda-lime glasses: ionic exchange and antibacterial activity. **2012**, 14, 1 22
- 481 Analytical methods for tracing plant hormones. **2012**, 403, 55-74 78
- 480 Surface Plasmon Resonance Chemical Sensing on Cell Phones. **2012**, 124, 11753-11756 43
- 479 Surface plasmon resonance chemical sensing on cell phones. **2012**, 51, 11585-8 157
- 478 Long range surface plasmon resonance for increased sensitivity in living cell biosensing through greater probing depth. **2012**, 174, 94-101 88
- 477 Numerical study on an application of subwavelength dielectric gratings for high-sensitivity plasmonic detection. **2012**, 51, 4722-9 13
- 476 In-situ impedance spectroscopy of layer-by-layer self-assembly of polyelectrolytes. **2012**,
- 475 Optimizing layer-by-layer deposition of interpolymer complexes on solid substrates using Biacore. **2012**, 8, 6782 6

474	Signal enhancement of protein binding by electrodeposited gold nanostructures for applications in Kretschmann-type SPR sensors. 2012 , 137, 5034-40	7
473	EOT or Kretschmann configuration? Comparative study of the plasmonic modes in gold nanohole arrays. 2012 , 137, 4162-70	40
472	Phase-sensitive surface plasmon resonance biosensors: methodology, instrumentation and applications. 2012 , 524, 637-662	91
471	Surface enhanced absorption and transmission from dye coated gold nanoparticles in thin films. 2012 , 51, 2606-15	40
470	Novel surface plasmon resonance sensor for the detection of heme at biological levels via highly selective recognition by apo-hemoglobin. 2012 , 99, 113-8	17
469	Biosensors for Drug Analysis. 2012 , 455-478	
468	Surface plasmon resonance imaging of the enzymatic degradation of cellulose microfibrils. 2012 , 4, 3238	9
467	Individual Plasmonic Nanostructures as Label Free Biosensors. 2012 , 105-126	
466	Refractive index sensor based on hybrid coupler with short-range surface plasmon polariton and dielectric waveguide. 2012 , 100, 111108	28
465	Biosensor based on hollow-core metal-cladding waveguide. 2012 , 183, 22-27	6
464	A planar waveguide surface plasmon resonance biosensor based on Otto configuration. 2012 ,	1
463	Landing Rate Measurements to Detect Fibrinogen Adsorption to Non-fouling Surfaces. 2012 , 5, 320-326	7
462	Patterned cellulose membrane for surface plasmon resonance measurement. 2012 , 173, 354-360	7
461	Innovative Exploitation of Grating-Coupled Surface Plasmon Resonance for Sensing. 2012 ,	2
460	A Novel Compact Photonic Crystal Fibre Surface Plasmon Resonance Biosensor for an Aqueous Environment. 2012 ,	1
459	Visualization of high-throughput and label-free antibody-polypeptide binding for drug screening based on microarrays and surface plasmon resonance imaging. 2012 , 17, 015005	7
458	Surface plasmon resonance biosensors incorporating gold nanoparticles. 2012 , 12, 724-39	92
457	Probing liquid/solid interfaces at the molecular level. 2012 , 112, 2920-86	311

456	Surface plasmon resonance based biosensor technique: a review. 2012 , 5, 483-501		275
455	A scanning surface plasmon resonance sensor based on the phase shift algorithm. 2012 , 23, 045105		4
454	Size-controlled aerosol synthesis of silver nanoparticles for plasmonic materials. 2012 , 14, 870		55
453	Characterisation of a Gold Nanorod Sol-Gel Utilising Inter-particle Coupling to Yield High Refractive Index Sensitivity. 2012 , 7, 331-339		
452	A versatile method to measure the binding to basic proteins by surface plasmon resonance. 2012 , 421, 385-90		12
451	Biosensing using dynamic-mode cantilever sensors: a review. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 1-18	11.8	209
450	Resonance acoustic microbalance with naked-embedded quartz (RAMNE-Q) biosensor fabricated by microelectromechanical-system process. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 139-45	11.8	17
449	Theoretical investigation for two cascaded SPR fiber optic sensors. 2012 , 161, 269-273		32
448	Functionalization layer influence on the sensitivity of surface plasmon resonance (SPR) biosensor. 2012 , 285, 1619-1623		17
447	Surface plasmon resonance, fluorescence, and circular dichroism studies for the characterization of the binding of BACE-1 inhibitors. 2013 , 405, 827-35		14
446	Biosensors in the small scale: methods and technology trends. 2013 , 7, 7-21		32
445	Design of a universal biointerface for sensitive, selective, and multiplex detection of biomarkers using surface plasmon resonance imaging. 2013 , 138, 6052-62		37
444	Surface Plasmon Resonance Sensogram Based Characterization of Antibodies Raised Against Intact Teliospores and Purified Diagnostic Antigen for Development of Nano-Immunosensor for Fungal Spore Antigen of Karnal Bunt (<i>Tilletia indica</i>) of Wheat. 2013 , 83, 551-560		5
443	Study of optical anisotropy in thin molecular layers by total internal reflection ellipsometry. 2013 , 181, 119-124		13
442	A immunosensor for the diagnosis of canine distemper virus infection using SPR and EIS. 2013 , 5, 5089		8
441	Quantitative control of poly(ethylene oxide) surface antifouling and biodetection through azimuthally enhanced grating coupled-surface plasmon resonance sensing. 2013 , 286, 22-30		8
440	Detection of HLA-B*27 gene using a spectral plasmon resonance imaging system. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 80-3	11.8	6
439	The determination of the thickness and the optical dispersion property of gold film using spectroscopy of a surface plasmon in the frequency domain. 2013 , 22, 027301		8

438	Novel compact architecture for high-resolution sensing with plasmonic gratings in conical mounting. 2013,	
437	Nanomaterials: A Danger or a Promise?. 2013,	33
436	Structural Nanocomposites. 2013,	8
435	Actively transporting virus like analytes with optofluidics for rapid and ultrasensitive biodetection. 2013, 13, 4841-7	30
434	Biosensor based on hydrogel optical waveguide spectroscopy for the detection of 17 β -Estradiol. 2013, 104, 149-54	44
433	Optimizing the immobilization of gold nanoparticles on functionalized silicon surfaces: amine- vs thiol-terminated silane. 2013, 46, 335-341	77
432	Self-organized metallic islands on nano-patterned silicon substrate. 2013, 103, 123117	2
431	Optimization of Metal Quality for Grating Coupled Surface Plasmon Resonance. 2013, 48, 179-183	5
430	Implementation and testing of a compact and high-resolution sensing device based on grating-coupled surface plasmon resonance with polarization modulation. 2013, 185, 179-187	20
429	Nanotechnology Assets in Biosensors Design for Environmental Monitoring. 2013, 189-229	3
428	'Phytochip': on-chip detection of phytopathogenic RNA viruses by a new surface plasmon resonance platform. 2013, 189, 80-6	16
427	Spectral Characteristics of Near-Infrared Surface Plasmon Resonance. 2013, 8, 1401-1409	4
426	Modern surface plasmon resonance for bioanalytics and biophysics. 2013, 15, 11190-216	130
425	Parametric study on the bimetallic waveguide coupled surface plasmon resonance sensors in comparison with other configurations. 2013, 46, 125302	9
424	Effect of metamaterial layer on optical surface plasmon resonance sensor. 2013, 124, 3607-3610	22
423	Surface Waves. 2013, 1-36	10
422	Bibliography. 2013, 273-293	
421	Formation of a Plasmonic Surface Optical Vortex by Evanescent Bessel Light. 2013, 8, 529-536	3

420	Magnetic nanoparticle mediated enhancement of localized surface plasmon resonance for ultrasensitive bioanalytical assay in human blood plasma. <i>Analytical Chemistry</i> , 2013 , 85, 1431-9	7.8	74
419	Plasmonic layers based on Au-nanoparticle-doped TiO ₂ for optoelectronics: structural and optical properties. 2013 , 24, 065202		28
418	Improved method based on S matrix for the optimization of SPR biosensors. 2013 , 286, 23-29		10
417	Bioaffinity sensor based on nanoarchitectonic films: control of the specific adsorption of proteins through the dual role of an ethylene oxide spacer. 2013 , 29, 7488-98		12
416	Using the Localized Surface Plasmon Resonance of Gold Nanoparticles to Monitor Lipid Membrane Assembly and Protein Binding. 2013 , 117, 26725-26733		36
415	Plasmonic and magnetoplasmonic interferometry for sensing. 2013 , 15, 085021		21
414	Theoretical investigations for surface plasmon resonance based optical fiber tip sensor. 2013 , 188, 757-760		23
413	Plasmon-assisted delivery of single nano-objects in an optical hot spot. 2013 , 13, 4299-304		47
412	Physical characteristics of localized surface plasmons resulting from nano-scale structured multi-layer thin films deposited on D-shaped optical fiber. <i>Optics Express</i> , 2013 , 21, 18765-76	3.3	8
411	Stratified composite-loaded plasmonic waveguide for sensing biofluids. 2013 , 1, 164		6
410	Wireless-electrodeless quartz-crystal-microbalance biosensors for studying interactions among biomolecules: a review. 2013 , 89, 401-17		46
409	Gold Nanoparticle-Biological Molecule Interactions and Catalysis. 2013 , 3, 683-708		20
408	Real-time detection of influenza A virus using semiconductor nanophotonics. 2013 , 2, e62-e62		39
407	Integrated Si-based nanoplasmonic sensor with phase-sensitive angular interrogation. 2013 , 525, 431-436		7
406	Enabling enhanced emission and low-threshold lasing of organic molecules using special Fano resonances of macroscopic photonic crystals. 2013 , 110, 13711-6		76
405	Miniaturized quantum semiconductor surface plasmon resonance platform for detection of biological molecules. 2013 , 3, 201-10		4
404	Biochips as Novel Bioassays. 2013 , 35		1
403	Investigation of subwavelength grating structure for enhanced surface plasmon resonance detection. 2014 , 53, 6307-16		6

402	Evolution of the surface plasmon resonance of Au:TiO ₂ nanocomposite thin films with annealing temperature. 2014 , 16, 1		20
401	A BIOSENSOR USING COUPLED PLASMON WAVEGUIDE RESONANCE COMBINED WITH HYPERSPECTRAL FLUORESCENCE ANALYSIS. 2014 , 07, 1450017		1
400	Resonant Electromagnetic Field Distribution on Doped Multilayer Thin Film Structure. 2014 , 47, 397-403		2
399	Description of an advantageous optical label-free biosensing interferometric read-out method to measure biological species. <i>Sensors</i> , 2014 , 14, 3675-89	3.8	12
398	A revised LRSPR sensor with sharp reflection spectrum. <i>Sensors</i> , 2014 , 14, 16664-71	3.8	12
397	The optical property of core-shell nanosensors and detection of atrazine based on localized surface plasmon resonance (LSPR) sensing. <i>Sensors</i> , 2014 , 14, 13273-84	3.8	18
396	Review of diverse optical fibers used in biomedical research and clinical practice. 2014 , 19, 080902		70
395	Optimum interaction length for a SPR based optical waveguide biosensor to work around a given wavelength. 2014 ,		
394	Classification, identification and detection of biological agents with graphene nanosensor. 2014 ,		1
393	Development of a complete plasmonic grating-based sensor and its application for self-assembled monolayer detection. 2014 , 53, 5969-76		5
392	Plasmon-induced enhancement of optical absorption in silicon thin films due to embedded silver nano-pillars. 2014 , 108, 58005		
391	Integration of programmable microfluidics and on-chip fluorescence detection for biosensing applications. 2014 , 8, 054111		37
390	A Novel Birefringent Photonic Crystal Fiber Surface Plasmon Resonance Biosensor. 2014 , 6, 1-11		107
389	Highly sensitive, localized surface plasmon resonance fiber device for environmental sensing, based upon a structured bi-metal array of nano-wires. 2014 , 39, 5798-801		6
388	Comparative study of silver nanoparticles embedded in dielectric layers for solar cell application. 2014 ,		1
387	Wechselwirkungen von Proteinen mit Polymerbeschichtungen und Biomaterialien. 2014 , 126, 8138-8169		32
386	Optical performance of long-range air-gaps assisted subwavelength waveguides. 2014 , 53, 087101		1
385	Biosensors based on a method for determining the conductance matrix of multiterminal semiconductor nanostructures. 2014 , 48, 1512-1517		

384	Multiplexed label-free optical biosensor for medical diagnostics. 2014 , 19, 17006		39
383	Polymer slab waveguides for the optical detection of nanoparticles in evanescent field based biosensors. 2014 ,		1
382	On-chip processing of droplets for surface plasmon resonance analysis. 2014 , 190, 975-981		2
381	SPR immunosensor for the detection of okadaic acid in mussels using magnetic particles as antibody carriers. 2014 , 190, 822-828		33
380	Optical biosensing for label-free cellular studies. 2014 , 53, 178-186		39
379	Success in Academic Surgery: Basic Science. <i>Success in Academic Surgery</i> , 2014 ,	0.1	
378	Measurement of thicknesses and optical properties of thin films from Surface Plasmon Resonance (SPR). 2014 , 115, 245-255		17
377	Quantum computing: Three of diamonds. 2014 , 9, 167-9		4
376	Nanomaterials enhanced surface plasmon resonance for biological and chemical sensing applications. 2014 , 43, 3426-52		784
375	Biosensing with SiO ₂ -covered SPR substrates in a commercial SPR-tool. 2014 , 200, 167-172		15
374	Surface plasmon induced enhancement with magneto-optical layer. 2014 , 115, 17E313		3
373	. 2014 , 61, 1477-1482		
372	Novel trends in affinity biosensors: current challenges and perspectives. 2014 , 25, 032001		59
371	High-Efficiency Solar Cells. <i>Springer Series in Materials Science</i> , 2014 ,	0.9	16
370	A fixed detector Kretschmann configuration optical system to study surface plasmon excitations. <i>Optics and Laser Technology</i> , 2014 , 56, 256-262	4.2	11
369	Biosensor Signal Transducers. 2014 , 99-205		1
368	Biosensors: Essentials. 2014 ,		13
367	Trends and challenges of refractometric nanoplasmonic biosensors: a review. <i>Analytica Chimica Acta</i> , 2014 , 806, 55-73	6.6	224

366	Highly sensitive detection of DNA hybridization on commercialized graphene-coated surface plasmon resonance interfaces. <i>Analytical Chemistry</i> , 2014 , 86, 11211-6	7.8	90
365	Detection of zeptomole quantities of nonfluorescent molecules in a 10(1) nm nanochannel by thermal lens microscopy. 2014 , 139, 2721-5		15
364	Trends in Bioanalytical Spectroscopy. 2014 , 941-976		
363	Thermodynamic and kinetic properties of interpolymer complexes assessed by isothermal titration calorimetry and surface plasmon resonance. 2014 , 10, 8254-60		25
362	Sensing Principles for Biomedical Telemetry. 2014 , 56-75		
361	Low index dielectric mediated surface plasmon resonance sensor based on graphene for near infrared measurements. 2014 , 47, 385102		33
360	Magneto-Optical Kerr Effect Enhanced by Surface Plasmon Resonance and Its Application on Biological Detection. 2014 , 50, 1-4		8
359	The simultaneous detection of free and total prostate antigen in serum samples with high sensitivity and specificity by using the dual-channel surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 268-73	11.8	43
358	Metal-dielectric layered structure supporting surface plasmons: Numerical modelling by the method of single expression. 2014 ,		
357	Application of strong transverse magneto-optical Kerr effect on high sensitive surface plasmon grating sensors. <i>Optics Express</i> , 2014 , 22, 19794-802	3.3	14
356	Nanomechanical sensors: Measuring a response in blood. 2014 , 9, 165-7		4
355	Preparation of self-assembled Ag nanoparticles for effective light-trapping in crystalline silicon solar cells. 2014 , 4, 13757		12
354	Protein interactions with polymer coatings and biomaterials. 2014 , 53, 8004-31		500
353	Hybrid light trapping structures in thin-film silicon solar cells. 2014 , 16, 075706		6
352	Glutathione immunosensing platform based on total internal reflection ellipsometry enhanced by functionalized gold nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 4969-76	7.8	22
351	How to avoid a negative shift in reflection-type surface plasmon resonance biosensors with metallic nanostructures. <i>Optics Express</i> , 2014 , 22, 4723-30	3.3	6
350	Surface Plasmon Resonance (SPR) and cyclic voltammetry based immunosensor for determination of teliosporic antigen and diagnosis of Karnal Bunt of wheat using anti-teliosporic antibody. 2014 , 191, 866-873		8
349	Advances in plasmonic technologies for point of care applications. 2014 , 114, 5728-52		270

348	Design study of nanograting-based surface plasmon resonance biosensor in the near-infrared wavelength. 2014 , 53, 1449-58	17
347	Size, Shape, Stability, and Color of Plasmonic Silver Nanoparticles. 2014 , 118, 9128-9136	117
346	An improved dispersion law of thin metal film and application to the study of surface plasmon resonance phenomenon. 2014 , 329, 180-183	20
345	Third-harmonic generation at a silver/vacuum interface using surface plasmon polaritons. 2014 , 39, 3860-3	1
344	Surface plasmon based sensor with order-of-magnitude higher sensitivity to electric field induced changes in dielectric environment at metal/nematic liquid-crystal interface. 2014 , 216, 128-135	14
343	Micro and Nano-Scale Technologies for Cell Mechanics. 2014 , 1, 5	25
342	Design and characterization of composite planar polarimetric interferometer. 2014 ,	
341	Plasmonics for Biosensors: Numerical Methodology to Evaluate the Influence of Uncertainties on the Optical Properties. 2014 , 1, 225-228	0
340	Orthogonal surface functionalization through bioactive vapor-based polymer coatings. 2014 , 131, n/a-n/a	12
339	Optimization of an optical waveguide biosensor based on hybrid coupler with short-range surface plasmon polariton. 2015 ,	
338	Nucleophile-Induced Shift of Surface Plasmon Resonance and its Implication in Chemistry. 2015 , 335-369	1
337	Optimizing Multiple Analyte Injections in Surface Plasmon Resonance Biosensors with Analytes having Different Refractive Index Increments. 2015 , 5, 15855	7
336	Bioanalytical Chemistry, Biosensors. 2015 , 1-24	
335	Omics and Biomedical Applications. 2015 , 1809-1857	1
334	Resolution enhancement of optical surface plasmon resonance sensor using metamaterial. 2015 , 5, 330-338	14
333	Photoresponsive Cucurbit[8]uril-Mediated Adhesion of Bacteria on Supported Lipid Bilayers. 2015 , 11, 6187-96	40
332	Choosing a suitable method for the identification of replication origins in microbial genomes. 2015 , 6, 1049	14
331	Optical Fiber Sensors Based on Nanoparticle-Embedded Coatings. 2015 , 2015, 1-18	48

330	. 2015,	3
329	Effect of alkanethiol molecular structure on sensitivity of surface plasmon resonance sensor. 2015 , 210, 768-775	4
328	Influence of the Particle Shape and Density of Self-Assembled Gold Nanoparticle Sensors on LSPR and SERS. 2015 , 119, 28577-28585	79
327	Fast protein detection in raw blood by size-exclusion SPR sensing. 2015 , 7, 6483-6488	5
326	Optical integrated chips with micro and nanostructures for refractive index and SERS-based optical label-free sensing. 2015 , 4, 419-436	9
325	Integrated High-Contrast-Grating Optical Sensor Using Guided Mode. 2015 , 51, 1-8	12
324	Optical waveguide biosensor based on modal interference between surface plasmon modes. 2015 , 211, 456-461	6
323	Electrografted diazonium salt layers for antifouling on the surface of surface plasmon resonance biosensors. <i>Analytical Chemistry</i> , 2015 , 87, 2488-94	7.8 25
322	Systematic study on the sensitivity enhancement in graphene plasmonic sensors based on layer-by-layer self-assembled graphene oxide multilayers and their reduced analogues. 2015 , 7, 144-51	51
321	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO ₂ dielectric matrix. 2015 , 122, 360-368	18
320	Virgin silver nanoparticles as colorimetric nanoprobe for simultaneous detection of iodide and bromide ion in aqueous medium. 2015 , 149, 122-6	28
319	Anisotropic gold nanoparticles for the highly sensitive colorimetric detection of glucose in human urine. 2015 , 5, 40849-40855	10
318	Microstructural evolution of Au/TiO ₂ nanocomposite films: The influence of Au concentration and thermal annealing. 2015 , 580, 77-88	36
317	Applied optics. Nanoplasmonic sensing and detection. 2015 , 348, 287-8	116
316	Selective and Reversible Binding of Thiol-Functionalized Biomolecules on Polymers Prepared via Chemical Vapor Deposition Polymerization. 2015 , 31, 5123-9	15
315	Nanobiosensors and Nanobioanalyses. 2015 ,	7
314	Label-free detection of tobramycin in serum by transmission-localized surface plasmon resonance. <i>Analytical Chemistry</i> , 2015 , 87, 5278-85	7.8 95
313	Surface Plasmon Resonance for Crude Oil Characterization. 2015 , 29, 3019-3023	9

312	Lab-on-fiber technology: a new vision for chemical and biological sensing. 2015 , 140, 8068-79		112
311	Severe Acute Respiratory Syndrome Coronavirus ORF7a Inhibits Bone Marrow Stromal Antigen 2 Virion Tethering through a Novel Mechanism of Glycosylation Interference. 2015 , 89, 11820-33		91
310	Functional analysis of synthetic DELLA domain peptides and bioactive gibberellin assay using surface plasmon resonance technology. 2015 , 144, 502-9		4
309	Micro- and nanodevices integrated with biomolecular probes. 2015 , 33, 1727-43		19
308	Technical note: A portable on-chip assay system for absorbance and plasmonic detection of protein hormone in milk. 2015 , 98, 4384-91		5
307	Zeptomole detection of C-reactive protein in serum by a nanoparticle amplified surface plasmon resonance imaging aptasensor. 2014 , 4, 5129		82
306	A review: potential usage of cellulose nanofibers (CNF) for enzyme immobilization via covalent interactions. 2015 , 175, 1817-42		82
305	One-dimensional nanostructures based bio-detection. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 432-443	11.8	35
304	Metal-dielectric multilayer structure supporting surface plasmons: electromagnetic modelling by the method of single expression. 2015 , 47, 3-15		5
303	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. 2015 , 7, 4598-810		2015
302	Polymer-based surface plasmon resonance biochip: construction and experimental aspects. 2016 , 32, 92-103		3
301	Microfluidic Surface Plasmon Resonance Sensors: From Principles to Point-of-Care Applications. <i>Sensors</i> , 2016 , 16,	3.8	73
300	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO ₂ Matrix. 2016 , 120, 16931-16945		24
299	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. 2016 , 6, 24598		107
298	Polymeric cantilever integrated with PDMS/graphene composite strain sensor. 2016 , 87, 105004		19
297	A multiplexed immunoaggregation biomarker assay using a two-stage micro resistive pulse sensor. 2016 , 10, 024109		8
296	Efficient Qualitative and Quantitative Determination of Antigen-induced Immune Responses. 2016 , 291, 16361-74		10
295	Plasmonic Solar Cells: From Rational Design to Mechanism Overview. 2016 , 116, 14982-15034		250

294	Optical excitation of surface plasma waves without grating structures. 2016 , 114, 35002	1
293	Controlling the excitation of radially polarized conical plasmons in plasmonic tips in liquids. 2016 , 6, 53273-53281	
292	Sensitivity of optical reflectance to the deposition of plasmonic nanoparticles and limits of detection. 2016 , 10, 026019	2
291	Quantum Plasmonic Sensing: Beyond the Shot-Noise and Diffraction Limit. 2016 , 3, 992-999	42
290	Long period fiber grating working in reflection mode as valuable biosensing platform for the detection of drug resistant bacteria. 2016 , 230, 510-520	27
289	Fabrication of two-dimensional visible wavelength nanoscale plasmonic structures using hydrogen silsesquioxane based resist. 2016 ,	1
288	Novel Water-Soluble Mucoadhesive Carbosilane Dendrimers for Ocular Administration. 2016 , 13, 2966-76	38
287	Biosensors for the Diagnosis of Celiac Disease: Current Status and Future Perspectives. 2016 , 58, 381-92	5
286	Plasma-Assisted Fabrication and Processing of Biomaterials. 2016 , 91-124	2
285	Culture-Independent Rapid Detection Methods for Bacterial Pathogens and Toxins in Food Matrices. 2016 , 15, 183-205	142
284	Table top surface plasmon resonance measurement system for efficient urea biosensing using ZnO thin film matrix. 2016 , 21, 87006	6
283	Optical Probes and Biosensors. 2016 , 197-232	
282	Biophotonics. 2016 ,	25
281	The effect of TiO ₂ phase on the surface plasmon resonance of silver thin film. 2016 ,	
280	Comparative Analysis of Human Growth Hormone in Serum Using SPRi, Nano-SPRi and ELISA Assays. 2016 ,	3
279	A review of digital microfluidics as portable platforms for lab-on a-chip applications. 2016 , 16, 2376-96	254
278	Localized surface plasmon resonance and refractive index sensitivity of vacuum-evaporated nanostructured gold thin films. 2016 , 90, 107-116	13
277	Optical gain in surface plasmon nanocavity oscillators. 2016 , 10, 016015	1

276	Localized Surface Plasmon Resonance-Based Micro-Capillary Biosensor. 2016 , 28, 2195-2198		6
275	Design optimization of long period waveguide grating devices for refractive index sensing using adaptive particle swarm optimization. 2016 , 359, 336-343		9
274	Propagating and localized surface plasmon resonance sensing [A critical comparison based on measurements and theory. 2016 , 7, 62-70		55
273	96-Well Plasmonic Sensing with Nanohole Arrays. <i>ACS Sensors</i> , 2016 , 1, 287-294	9.2	35
272	Microfluidic perfusion systems for secretion fingerprint analysis of pancreatic islets: applications, challenges and opportunities. 2016 , 16, 409-31		34
271	Modeling and Design of a Plasmonic Sensor for High Sensing Performance and Clear Registration. 2016 , 8, 1-11		
270	An embedded microretroreflector-based microfluidic immunoassay platform. 2016 , 16, 1625-35		6
269	Optimization of Magneto-Optical Kerr Effect in Cu/Fe/Cu Nano-structure. 2016 , 29, 1517-1523		10
268	Long period fiber grating nano-optrode for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 590-600	11.8	60
267	Surface plasmon resonance immunosensor for fast, highly sensitive, and in situ detection of the magnetic nanoparticles-enriched <i>Salmonella enteritidis</i> . 2016 , 230, 191-198		62
266	Single-molecule DNA hybridisation studied by using a modified DNA sequencer: a comparison with surface plasmon resonance data. 2016 , 4, 015002		12
265	Optical Devices Based on the Attenuated Total Reflection. 2016 , 191-241		
264	Current analytical methods for plant auxin quantification--A review. <i>Analytica Chimica Acta</i> , 2016 , 902, 8-21	6.6	36
263	Fabrication of surface plasmon resonance nanosensor for the selective determination of erythromycin via molecular imprinted nanoparticles. 2016 , 150, 607-14		45
262	Biosensors and nanobiosensors for therapeutic drug and response monitoring. 2016 , 141, 429-49		57
261	Microchip based electrochemical-piezoelectric integrated multi-mode sensing system for continuous glucose monitoring. 2016 , 223, 83-88		31
260	Kinetics and thermodynamics of interaction between sulfonamide antibiotics and humic acids: Surface plasmon resonance and isothermal titration microcalorimetry analysis. 2016 , 302, 262-266		27
259	Microfluidic assay-based optical measurement techniques for cell analysis: A review of recent progress. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 227-36	11.8	50

258	Ultra high sensitive integrated optical waveguide refractive index sensor based on multimode interference. 2016 , 222, 556-561		15
257	Biosensors and bioelectronics on smartphone for portable biochemical detection. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 273-84	11.8	416
256	Silicon-on-quartz bonding based SPR chip. 2017 , 23, 1983-1989		4
255	Competitiveness of the BPM in studying the optical beams at critical incidence on dielectric interfaces. 2017 , 49, 1		8
254	Computational Sensing Using Low-Cost and Mobile Plasmonic Readers Designed by Machine Learning. 2017 , 11, 2266-2274		47
253	Evaluation of a novel label-free photonic-crystal biosensor imaging system for the detection of prostate cancer cells. 2017 ,		1
252	Tunability and Sensing Properties of Plasmonic/1D Photonic Crystal. 2017 , 7, 41983		54
251	Nanoporous gold film based SPR sensors for trace chemical detection. 2017 ,		
250	Asymmetric bead aggregation for microfluidic immunodetection. 2017 , 17, 2095-2103		10
249	Low-Cost Label-Free Biosensing Bimetallic Cellulose Strip with SILAR-Synthesized Silver Core-Gold Shell Nanoparticle Structures. <i>Analytical Chemistry</i> , 2017 , 89, 6448-6454	7.8	40
248	Recent Progress in Nanomaterial-Based Optical Aptamer Assay for the Detection of Food Chemical Contaminants. 2017 , 9, 23287-23301		87
247	Quick and sensitive SPR detection of prion disease-associated isoform (PrP) based on its self-assembling behavior on bare gold film and specific interactions with aptamer-graphene oxide (AGO). 2017 , 157, 31-39		16
246	Multielement surface plasmon resonance immunosensor for monitoring of blood circulation system. 2017 , 56, 121907		3
245	Controlling successive ionic layer absorption and reaction cycles to optimize silver nanoparticle-induced localized surface plasmon resonance effects on the paper strip. 2017 , 174, 37-43		9
244	Binding properties of the natural red dye carthamin with human serum albumin: Surface plasmon resonance, isothermal titration microcalorimetry, and molecular docking analysis. 2017 , 221, 650-656		18
243	Electrophilic probes for deciphering substrate recognition by O-GlcNAc transferase. 2017 , 13, 1267-1273		18
242	Machine Learning for Silver Nanoparticle Electron Transfer Property Prediction. 2017 , 57, 2413-2423		44
241	High Figure of Merit (FOM) of Bragg Modes in Au-Coated Nanodisk Arrays for Plasmonic Sensing. 2017 , 13, 1700908		13

240	Quick and Sensitive Detection of Prion Disease-Associated Isoform (PrPSc) Using a Novel Gold Surface/PrPSc/Gold Nanoparticles Sandwich SPR Detection Assay. 2017 , 48, 18-28		2
239	Performance study of metallic clad planar waveguide sensors in presence of graphene layer. 2017 , 147, 366-372		4
238	Theory of nonretarded ballistic surface plasma waves in metal films. 2017 , 95,		4
237	New methodologies in screening of antibiotic residues in animal-derived foods: Biosensors. 2017 , 175, 435-442		30
236	The impact of size and shape distributions on the electron charge transfer properties of silver nanoparticles. 2017 , 9, 12698-12708		14
235	Dielectric over-layer assisted graphene, its oxide and MoS ₂ -based fibre optic sensor with high field enhancement. 2017 , 50, 405112		31
234	Potential of SPR sensors based on multilayer interfaces with gold and LHM for biosensing applications. 2017 , 7, 199-205		7
233	Fabrication of Magnetic Conjugation Clusters via Intermolecular Assembling for Ultrasensitive Surface Plasmon Resonance (SPR) Detection in a Wide Range of Concentrations. <i>Analytical Chemistry</i> , 2017 , 89, 13472-13479	7.8	29
232	Enhanced Transverse Magneto-Optical Kerr Effect in Magnetoplasmonic Crystals for the Design of Highly Sensitive Plasmonic (Bio)sensing Platforms. 2017 , 2, 7682-7685		36
231	3D plasmonic nanoarchitecture as an emerging biosensing platform. 2017 , 12, 2577-2580		1
230	Ultrasensitive detection of ochratoxin A using aptasensors. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 168-179		78
229	Active Plasmonic Devices. <i>Springer Theses</i> , 2017 ,	0.1	2
228	Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. 2017 , 9, 547-554		15
227	A compact and ultra high sensitive RI sensor using modal interference in an integrated optic waveguide with metal under-cladding. 2017 , 240, 1302-1307		11
226	Enzymes as Sensors. 2017 , 589, 115-131		11
225	Modeling and Temperature Drift Compensation Method for Surface Plasmon Resonance-Based Sensors. 2017 , 17, 6246-6257		6
224	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. <i>Optics Express</i> , 2017 , 25, 39-58	3.3	9
223	Current and Potential Developments of Cortisol Aptasensing towards Point-of-Care Diagnostics (POTC). <i>Sensors</i> , 2017 , 17,	3.8	17

222	Surface Plasmon Resonance Sensors on Raman and Fluorescence Spectroscopy. <i>Sensors</i> , 2017 , 17,	3.8	52
221	Optical Fibre Sensors Using Graphene-Based Materials: A Review. <i>Sensors</i> , 2017 , 17,	3.8	71
220	Detection of Lipid and Amphiphilic Biomarkers for Disease Diagnostics. 2017 , 7,		20
219	Numerical simulation on the performance analysis of a graphene-coated optical fiber plasmonic sensor at anti-crossing. 2017 , 56, 3510-3517		21
218	The SPR detection of Salmonella enteritidis in food using aptamers as recognition elements. 2017 , 231, 012114		1
217	SPR System for On-Site Detection of Biological Warfare. 2017 , 13, 144-149		6
216	Fundamentals and commercial aspects of nanobiosensors in point-of-care clinical diagnostics. 2018 , 8, 149		78
215	Sensitivity enhancement of surface plasmon resonance sensor based on wavelength and angular combined modulations. 2018 , 168, 271-277		5
214	Metal enhanced fluorescence (MEF) for biosensors: General approaches and a review of recent developments. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 102-116	11.8	178
213	Smart Cell Culture Systems: Integration of Sensors and Actuators into Microphysiological Systems. 2018 , 13, 1767-1784		40
212	Quantum dots for biomedical applications. 2018 , 411-436		8
211	Biosensors for rapid and sensitive detection of Staphylococcus aureus in food. <i>Biosensors and Bioelectronics</i> , 2018 , 105, 49-57	11.8	130
210	Optimization and fabrication of the gold-coated GaAs diffraction gratings for surface plasmon resonance sensors. 2018 , 158, 535-540		5
209	Surface plasmon resonance as a tool for ligand-binding assay reagent characterization in bioanalysis of biotherapeutics. 2018 , 10, 559-576		8
208	Detection of ciprofloxacin through surface plasmon resonance nanosensor with specific recognition sites. 2018 , 29, 1302-1318		28
207	Toward Ultrasensitive Surface Plasmon Resonance Sensors. 2018 , 409-448		4
206	Miniaturized surface plasmon resonance biosensor with vacuum-driven hydrodynamic focusing. 2018 , 254, 64-71		7
205	Xanthine oxidase functionalized TaO nanostructures as a novel scaffold for highly sensitive SPR based fiber optic xanthine sensor. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 637-645	11.8	29

204	A novel protein binding strategy for energy-transfer-based photoelectrochemical detection of enzymatic activity of botulinum neurotoxin A. 2018 , 97, 114-118		4
203	Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. 2018 , 30, 8391-8414		26
202	Overview of Fiber Optic Surface Plasmon Resonance Biosensors for Medical Applications. 2018 ,		0
201	Bioanalytical Chemistry, Biosensors. 2018 , 1-28		
200	Multichannel Long-Range Surface Plasmon Waveguides for Parallel Biosensing. 2018 , 36, 5536-5546		6
199	Plasmonic nano-arrays for ultrasensitive bio-sensing. 2018 , 7, 1517-1531		47
198	Fast and Sensitive Ellipsometry-Based Biosensing. <i>Sensors</i> , 2017 , 18,	3.8	16
197	Rapidly probing the interaction between sulfamethazine antibiotics and fulvic acids. 2018 , 243, 752-757		8
196	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene-Gold Interface. 2018 , 5, 1800433		10
195	Analytical modeling of optical reflectivity of random plasmonic nano-monolayers. <i>Optics Express</i> , 2018 , 26, 12660-12683	3.3	10
194	Recent advancements in the methodologies applied for the sensitivity enhancement of surface plasmon resonance sensors. 2018 , 10, 3906-3925		45
193	S-Layer Protein-Based Biosensors. 2018 , 8,		27
192	Optical Aggregation of Gold Nanoparticles for SERS Detection of Proteins and Toxins in Liquid Environment: Towards Ultrasensitive and Selective Detection. 2018 , 11,		24
191	Qualitative and Quantitative Detection of PrP Based on the Controlled Release Property of Magnetic Microspheres Using Surface Plasmon Resonance (SPR). <i>Nanomaterials</i> , 2018 , 8,	5.4	17
190	Grating-Coupled Surface Plasmon Resonance (GC-SPR) Optimization for Phase-Interrogation Biosensing in a Microfluidic Chamber. <i>Sensors</i> , 2018 , 18,	3.8	19
189	Design of an integrated optics for transglutaminase conformational change. 2018 , 7, 283-290		1
188	Fano Resonance Enhanced Surface Plasmon Resonance Sensors Operating in Near-Infrared. 2018 , 5, 23		14
187	Clinical detection of Hepatitis C viral infection by yeast-secreted HCV-core:Gold-binding-peptide. <i>Biosensors and Bioelectronics</i> , 2018 , 119, 230-236	11.8	7

186	Organic Photo-Electrochemical Transistor-Based Biosensor: A Proof-of-Concept Study toward Highly Sensitive DNA Detection. 2018 , 7, e1800536		32
185	Plasmonic molecular assays: Recent advances and applications for mobile health. 2018 , 11, 5439-5473		29
184	Development of surface plasmon resonance (SPR) biosensors for use in the diagnostics of malignant and infectious diseases. 2018 , 15, 065602		25
183	Modeling convection-diffusion-reaction systems for microfluidic molecular communications with surface-based receivers in Internet of Bio-Nano Things. 2018 , 13, e0192202		18
182	Mutual promotion of electrochemical-localized surface plasmon resonance on nanochip for sensitive sialic acid detection. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 32-39	11.8	30
181	Nonlinear Optics With Metal-Dielectric Nanocomposites. 2019 , 39-60		1
180	Benefits of Nanomaterials and Nanowire Geometry. 2019 , 101-121		1
179	Application of polysaccharides in enzyme immobilization. 2019 , 357-395		3
178	Kinetic and thermodynamic studies of sunitinib malate interaction with albumin using surface plasmon resonance and molecular docking methods. 2019 , 150, 104089		10
177	Ultrahigh-Frequency, Wireless MEMS QCM Biosensor for Direct, Label-Free Detection of Biomarkers in a Large Amount of Contaminants. <i>Analytical Chemistry</i> , 2019 , 91, 9398-9402	7.8	22
176	Internal reflectance from a disordered monolayer of small gold nanoparticles on a glass substrate: Theory vs. experiment. 2019 , 13, 404-412		0
175	Graphene Metamaterial Electron Optics: Excitation Processes and Electro-Optical Modulation. 2019 , 263-296		0
174	Protein-Polymer Block Copolymer Thin Films for Highly Sensitive Detection of Small Proteins in Biological Fluids. <i>ACS Sensors</i> , 2019 , 4, 2869-2878	9.2	7
173	A metamaterial/liquid-core waveguide microfluidic optical sensor. 2019 , 300, 111592		2
172	Fiber-based early diagnosis of venous thromboembolic disease by label-free D-dimer detection. 2019 , 2, 100026		19
171	Grating-Coupled Plasmonic Sensor for Sucrose Sensing Fabricated Using Optical Fiber-Based Interference Lithography (OFIL) System. 2019 , 19, 10477-10481		6
170	Rapid Prototyping of an Open-Surface Microfluidic Platform Using Wettability-Patterned Surfaces Prepared by an Atmospheric-Pressure Plasma Jet. 2019 , 4, 16292-16299		12
169	Use of a Branched Linker for Enhanced Biosensing Properties in IgG Detection from Mixed Chinese Hamster Ovary Cell Cultures. 2019 , 30, 815-825		7

168	Functionalized Advanced Hybrid Materials for Biosensing Applications. 2019 , 171-207		7
167	Potential applications of advanced biosensor systems for the real-time monitoring of wastewater treatment plants. 2019 , 75-94		1
166	Tunable gap plasmons in gold nanospheres adsorbed into a pH-responsive polymer film. 2019 , 553, 197-209		2
165	Tapered Optical Fibre Sensors: Current Trends and Future Perspectives. <i>Sensors</i> , 2019 , 19,	3.8	55
164	Receptor Binding Affinities of Synthetic Cannabinoids Determined by Non-Isotopic Receptor Binding Assay. 2019 , 35, 37-44		0
163	Sensitivity enhancement of surface plasmon resonance sensors with 2D franckeite nanosheets. 2019 , 13, 102320		23
162	A smartphone biosensor based on analysing structural colour of porous silicon. 2019 , 144, 3942-3948		11
161	Biological Photonic Crystal-Enhanced Plasmonic Mesocapsules: Approaching Single-Molecule Optofluidic-SERS Sensing. 2019 , 7, 1900415		24
160	Success in Academic Surgery: Basic Science. <i>Success in Academic Surgery</i> , 2019 ,	0.1	0
159	Investigation of cladding thicknesses on silver SPR based side-polished optical fiber refractive-index sensor. 2019 , 13, 102255		24
158	Development of label-free plasmonic Au-TiO thin film immunosensor devices. 2019 , 100, 424-432		19
157	Nano-film aluminum-gold for ultra-high dynamic-range surface plasmon resonance chemical sensor. 2019 , 12, 286-295		3
156	High selective spectroelectrochemical biosensor for HCV-RNA detection based on a specific peptide nucleic acid. 2019 , 217, 288-293		14
155	Stimuli-Responsive Microgel-Based Surface Plasmon Resonance Transducer for Glucose Detection Using a Competitive Assay with Concanavalin A. 2019 , 1, 519-525		16
154	Effective Construction of a High-Capacity Boronic Acid Layer on a Quartz Crystal Microbalance Chip for High-Density Antibody Immobilization. <i>Sensors</i> , 2018 , 19,	3.8	13
153	Synthesis of Fe ₃ O ₄ @C from Pyrolysis of Fe ₃ O ₄ /Lignin Clusters and Its Application for Quick and Sensitive Detection of PrP through a Sandwich SPR Detection Assay. 2019 , 20,		19
152	Engineering the effector specificity of regulatory proteins for the in vitro detection of biomarkers and pesticide residues. 2019 , 103, 3205-3213		1
151	Miniaturized Optoelectronic SPR Sensor Based on Integrated Planar Waveguide and MIM Hot-Electron Photodetector. 2019 , 66, 5215-5220		7

150	Nano-plate biosensor array using ultrafast heat transport through proteins. 2019 , 278, 15-20		9
149	Ultra-sensitive detection by metal nanoparticles-mediated enhanced SPR biosensors. 2019 , 192, 118-127		81
148	Numerical study of nanoscale biosensor based on surface plasmon polariton propagation in Mach-Zehnder interferometer structure. 2019 , 557, 141-146		4
147	Sensitivity enhancement of SPR optical biosensor based on Graphene/MoS ₂ structure with nanocomposite layer. 2019 , 88, 161-166		31
146	Porous Silicon-Based Photonic Biosensors: Current Status and Emerging Applications. <i>Analytical Chemistry</i> , 2019 , 91, 441-467	7.8	89
145	Design and Simulation of a Highly Sensitive SPR Optical Fiber Sensor. 2019 , 9, 33-42		9
144	Design of ultra-high sensitive biosensor to detect E. Coli in water. 2020 , 12, 775-780		6
143	Optical biosensors: an exhaustive and comprehensive review. 2020 , 145, 1605-1628		189
142	Mechanistic Modeling for Performance Engineering of SPR-Based Fiber-Optic Sensor Employing Ta ₂ O ₅ and Graphene Multilayers in Phase Interrogation Scheme. 2020 , 15, 647-659		3
141	Biosensors Based on Mechanical and Electrical Detection Techniques. <i>Sensors</i> , 2020 , 20,	3.8	20
140	The significance of nano-shapes in nanoparticle-enhanced laser-induced breakdown spectroscopy. 2020 , 35, 2982-2989		9
139	Introduction to quantum plasmonic sensing. 2020 , 67-112		
138	Combinations of regenerative medicine and Lab-on-a-chip systems: New hope to restoring the proper function of pancreatic islets in diabetes. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112451	11.8	7
137	Nanoplasmonic Nanorods/Nanowires from Single to Assembly: Syntheses, Physical Mechanisms and Applications. 2020 , 20, 1043-1073		2
136	Peptides, DNA and MIPs in Gas Sensing. From the Realization of the Sensors to Sample Analysis. <i>Sensors</i> , 2020 , 20,	3.8	9
135	Sensitive Techniques for POCT Sensing on the Residues of Pesticides and Veterinary Drugs in Food. 2021 , 107, 206-214		0
134	Surface Plasmon Resonance-Based Temperature Sensor with Outer Surface Metal Coating on Multi-Core Photonic Crystal Fibre. 2020 , 3, 337-351		2
133	Chip-based waveguides for high-sensitivity biosensing and super-resolution imaging. 2020 , 21, 1134-1149		1

132	Theoretical Study of Surface Plasmon Resonance in P3HT:PCBM/Cu Nano Film. 2020 , 392, 2000170		
131	Cascaded wavelength multiplexed refractive index sensors in optical fibers based on surface plasmon resonances. 2020 , 128, 073101		4
130	Surface Display Technology for Biosensor Applications: A Review. <i>Sensors</i> , 2020 , 20,	3.8	19
129	Target-Directed Approaches for Screening Small Molecules against RNA Targets. 2020 , 25, 869-894		6
128	A novel HCV electrochemical biosensor based on a polyaniline@Ni-MOF nanocomposite. 2020 , 49, 8918-8926		25
127	Recent advancements in microfluidics that integrate electrical sensors for whole blood analysis. 2020 , 12, 3318-3332		3
126	On-resonance islands of Ag-nanowires sense the level of glycated hemoglobin for diabetes diagnosis. 2020 , 321, 128451		4
125	Impact of Silanization Parameters and Antibody Immobilization Strategy on Binding Capacity of Photonic Ring Resonators. <i>Sensors</i> , 2020 , 20,	3.8	4
124	Design of D-Shaped PCF-SPR sensor with dual coating of ITO and ZnO conducting metal oxide. 2020 , 220, 165135		15
123	Functionalized silicon dioxide self-referenced plasmonic chip as point-of-care biosensor for stroke biomarkers NT-proBNP and S100 β . 2020 , 212, 120792		19
122	Probing Liquid/Solid Interfaces at the Molecular Level. 2020 , 1-142		1
121	Portable and field-deployed surface plasmon resonance and plasmonic sensors. 2020 , 145, 3776-3800		56
120	Predicting the Performance of Surface Plasmon Resonance Sensors Based on Anisotropic Substrates. 2021 , 16, 403-412		2
119	Highly sensitive plasmonic sensor fabricated with multilayer Ag/Si ₃ N ₄ /Au nanostructure for the detection of glucose in glucose/water solutions. 2021 , 317, 112430		7
118	Recent advances in 3D bioprinting of vascularized tissues. 2021 , 199, 109398		25
117	Magneto-Optic-Plasmonic Sensors With Improved Performance. 2021 , 57, 1-5		8
116	Detection of aflatoxin M1 by fiber cavity attenuated phase shift spectroscopy. <i>Optics Express</i> , 2021 , 29, 3873-3881	3.3	3
115	Determination of the composition of heterogeneous binder solutions by surface plasmon resonance biosensing. 2021 , 11, 3685		2

114	Recent progress in surface plasmon resonance based sensors: A comprehensive review. 2021 , 7, e06321	38
113	Specific detection of glucose by an optical weak measurement sensor. 2021 , 12, 5128-5138	0
112	Quantum Plasmonic Sensors. 2021 , 121, 4743-4804	16
111	Towards Microfluidic-Based Exosome Isolation and Detection for Tumor Therapy. 2021 , 37,	33
110	Operando monitoring transition dynamics of responsive polymer using optofluidic microcavities. 2021 , 10, 128	10
109	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. 2021 , 337, 129771	7
108	Surface Plasmon Resonance (SPR)- and Localized SPR (LSPR)-Based Virus Sensing Systems: Optical Vibration of Nano- and Micro-Metallic Materials for the Development of Next-Generation Virus Detection Technology. 2021 , 11,	11
107	Simulation of wagon wheel optical fiber biosensor for quick and easy detection of cancer cells. 2021 , 53, 1	0
106	Deciphering Plasmonic Modality to Address Challenges in Disease Diagnostics. 2021 , 1-22	0
105	Bovine Serum Albumin Protein Detection by a Removable SPR Chip Combined with a Specific MIP Receptor. 2021 , 9, 218	7
104	Plasmonic Dye-Sensitized Solar Cells: Fundamentals, Recent Developments, and Future Perspectives. 2021 , 6, 9337-9350	1
103	Surface-enhanced Raman spectroscopy for analysis of PCR products of viral RNA of hepatitis C patients. 2021 , 259, 119908	2
102	Refinement of an open-microcavity optical biosensor for bacterial endotoxin test. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113436	11.8 3
101	CMOS-compatible silicon nanowire field-effect transistors: Where nanotechnology pushes the limits in biosensing. 2022 , 327-362	1
100	Peptidomics: divide et impera. 2010 , 615, 3-9	2
99	Silver Nanocluster/Silica Composite Coatings Obtained by Sputtering for Antibacterial Applications. 2013 , 225-247	4
98	CHAPTER 11:Advance Engineered Nanomaterials in Point-of-care Immunosensing for Biomedical Diagnostics. <i>RSC Detection Science</i> , 2019 , 238-266	0.4 13
97	CHAPTER 1:Biosensor Technology and the Clinical Biochemistry Laboratory Issue of Signal Interference from the Biological Matrix. <i>RSC Detection Science</i> , 2013 , 1-34	0.4 4

96	Limulus amoebocyte lysate test via an open-microcavity optical biosensor. 2018 , 23, 1-6	5
95	Plasmonic optical systems for gas detection. 2019 ,	1
94	Photonic Crystal Waveguide Sensing. 2013 , 1-32	1
93	Nanotechnology Applications for Infectious Diseases. 2013 , 1-84	2
92	Grating couplers for (Bloch) long-range surface plasmons on metal stripe waveguides. 2019 , 36, 1921	10
91	Metallic photonic crystal-based sensor for cryogenic environments. <i>Optics Express</i> , 2019 , 27, 16344-16353	3
90	Light management on silicon utilizing localized surface plasmon resonance of electroless plated silver nanoparticles. 2019 , 9, 3753	3
89	Electron-driven photon sources for correlative electron-photon spectroscopy with electron microscopes. 2020 , 9, 4381-4406	9
88	Cellulose-based Biosensor for Bio-molecules Detection in Medical Diagnosis: A Mini-Review. 2020 , 27, 4593-4612	8
87	Blocking Effect of Demethylzeylasteral on the Interaction between Human ACE2 Protein and SARS-CoV-2 RBD Protein Discovered Using SPR Technology. 2020 , 26,	10
86	Recent Advances and Applications of Immobilized Enzyme Technologies: A Review. 2010 , 5, 565-575	86
85	Review on Biosensors for Food Safety. 2014 , 39, 115-121	2
84	GeO ₂ Doped Optical Fiber Plasmonic Sensor for Refractive Index Detection. 2021 , 9,	0
83	Carbon-Based Nanomaterials and Sensing Tools for Wearable Health Monitoring Devices. 2100572	4
82	A fiber optic surface plasmon resonance (SPR) sensor using cyclic olefin copolymer (COC) polymer prism. 2008 , 17, 369-374	1
81	Refractive Index Sensor for Ultra-thin Layer Based on Short Range Surface Plasmon Polariton Hybrid Coupler. 2009 ,	
80	Effects of Light Incident Mode on Optical Scattering of Au Nanoparticle by Localized Surface Plasmon Resonance. 2009 , 22, 307-313	
79	Surface Plasmon Resonance Ellipsometry Using an Air Injection System with an Extraction of Air System. 2009 , 20, 182-188	

78	Adjuvant effects on antibody titre. 2010 , 626, 187-98		
77	In Situ Observation of Protein Adsorption Process and Functionality on Solid/Liquid Interfaces by Slab Optical Waveguide Spectroscopy. 2010 , 84, 18-23		
76	Detection of Pathogenic Salmonella Using a Surface Plasmon Resonance Biosensor. 2010 , 35, 116-123		3
75	Nanoplasmonics. 307		
74	Chip-Based Proteomics. 193-218		
73	Development of a Highly Sensitive Label-Free Nucleic Acid Biosensor. 2012 ,		
72	Plasmonic Sensors Based on Rayleigh Anomaly. 2012 ,		1
71	Surface Immobilization of Probes. 2013 , 87-116		
70	CHAPTER 1:Introduction to Biosensor Technology. <i>RSC Detection Science</i> , 2013 , 1-49		0.4
69	Modern Techniques for DNA and RNA Assessments. <i>Success in Academic Surgery</i> , 2014 , 107-126		0.1
68	Design Guidelines for High Efficiency Plasmonics Silicon Solar Cells. <i>Springer Series in Materials Science</i> , 2014 , 497-514		0.9 1
67	Plasmonic Sensors on 2D Ordered Structures. 2015 , 359-373		
66	Plasmonic Sensors for Analysis of Proteins and an Oncologic Drug in Human Serum. 2015 , 305-333		
65	A Gold Nanoparticle Amplified Fiber Tapered Biosensor Based on Mesoporous Silica Based Nanospheres. 2015 ,		
64	Bibliography. 2015 , 235-263		
63	CHAPTER 19:Phage-Based Biosensors for Food Analysis. <i>Food Chemistry, Function and Analysis</i> , 2016 , 432-462		0.6
62	Miniaturized Fluidic Devices and Their Biophotonic Applications. 2016 , 1-47		1
61	Optical, Photoluminescence, and Vibrational Spectroscopy of Metal Nanoparticles. <i>Advances in Materials Science and Engineering</i> , 2016 , 127-189		

60	Transducer based on surface plasmon resonance with thermal modification of metal layer properties. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2016 , 19, 255-266	0.4	1
59	Analysis of the Sensing Capability of Plasmonic and Magnetoplasmonic Interferometers. <i>Springer Theses</i> , 2017 , 59-75	0.1	
58	SURFACE PLASMON RESONANCE SENSOR BASED ON POLYMER SUBSTRATE. <i>Optoelektronika I Poluprovodnikova Tehnika</i> , 2016 , 51, 143-149		1
57	Miniaturized Fluidic Devices and Their Biophotonic Applications. 2017 , 893-939		
56	Recent Trends in Plasmonic Nanowire Solar Cells.		2
55	Introduction. <i>Springer Theses</i> , 2018 , 1-30	0.1	
54	Label-free prostate cancer cell detection via photonic-crystal biosensor. <i>Proceedings of SPIE</i> , 2018 , 10504,	1.7	0
53	Research on surface plasmon resonance sensor based on wavelength and angular combined modulations. 2018 ,		
52	Modern Techniques for DNA, RNA, and Protein Assessment. <i>Success in Academic Surgery</i> , 2019 , 65-104	0.1	
51	Cellular Refractive Index Comparison of Various Prostate Cancer and Noncancerous Cell Lines via Photonic-Crystal Biosensor. <i>Proceedings of SPIE</i> , 2019 , 10881,	1.7	0
50	Zirconium metal-organic framework functionalized plasmonic sensor. 2019 ,		
49	A simulation analysis for dimensioning of an amorphous silicon planar waveguide structure suitable to be used as a surface plasmon resonance biosensor. 2019 ,		1
48	Prostate Cancer Epithelial Mesenchymal Transition by TGF- β exposure monitored with a Photonic Crystal Biosensor. <i>Proceedings of SPIE</i> , 2020 , 11251,	1.7	
47	Fabrication of multichannel Bloch long-range surface plasmon biosensors. 2020 ,		
46	High-throughput imaging surface plasmon resonance biosensing based on ultrafast two-point spectral-dip tracking scheme. <i>Optics Express</i> , 2020 , 28, 20624-20633	3.3	2
45	Portable surface plasmon resonance (SPR) measurement device for sensing applications. 2020 ,		0
44	A Novel Photonic Crystal Fiber Biosensor Using Single Hexagonal Lattice Structure. 2020 ,		
43	Bloch long-range surface plasmons on waveguide arrays as multichannel biosensors. 2020 ,		0

42	Simulation of a parallel waveguide array structure suitable for interrogation scheme in a plasmonic biosensor. 2020 ,		1
41	Adaptive Non-Uniform Particle Swarm Application to Plasmonic Design. 114-124		
40	Biosensors for Clinical Samples: Consideration and Approaches. 2021 , 1-32		
39	Dual channel plasmonic hybrid system as potential multi-analyte and multi-parameter sensor. <i>Optics and Laser Technology</i> , 2022 , 149, 107853	4.2	0
38	Fabrication of functionalized nanomaterial-based electrochemical sensors platforms. 2022 , 445-486		
37	AC-Electroosmosis-Assisted Surface Plasmon Resonance Sensing for Enhancing Protein Signals with a Simple Kretschmann Configuration.. <i>Sensors</i> , 2022 , 22,	3.8	0
36	Nanoparticles in biosensor development for the detection of pathogenic bacteria in water. 2022 , 331-358		1
35	Emerging Role of Liquid Metals in Sensing.. <i>ACS Sensors</i> , 2022 ,	9.2	9
34	Rational Design of ZIF-8 for Constructing Luminescent Biosensors with Glucose Oxidase and AIE-Type Gold Nanoclusters.. <i>Analytical Chemistry</i> , 2022 ,	7.8	3
33	Gold Nanoparticles: Biosynthesis and Potential of Biomedical Application.. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	12
32	Fabrication of a Large-Scale Plasmonic Nanojunction for Chemical Sensing. <i>ACS Applied Nano Materials</i> ,	5.6	0
31	Print-and-stick unibody microfluidics coupled surface plasmon resonance (SPR) chip for smartphone imaging SPR (Smart-iSRP).. <i>Analytica Chimica Acta</i> , 2022 , 1201, 339606	6.6	2
30	A review of applications of surface-enhanced raman spectroscopy laser for detection of biomaterials and a quick glance into its advances for COVID-19 investigations.. <i>ISSS Journal of Micro and Smart Systems</i> , 2022 , 1-20	0.9	1
29	Recent Advances in Aptasensors For Rapid and Sensitive Detection of Staphylococcus Aureus. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10,	5.8	0
28	Rapid Determination of Methamphetamine and Cocaine in Saliva by Portable Surface Plasmon Resonance (SPR). <i>Analytical Letters</i> , 1-10	2.2	0
27	Plasmonic Biosensors for Food Safety. 2022 ,		
26	An optical sensor combining surface plasmon resonance, light extinction, and near-critical angle reflection, for thin liquid film biochemical sensing. <i>Optics and Lasers in Engineering</i> , 2022 , 158, 107137	4.6	0
25	Performance Enhancement of SPR Biosensor Using Graphene/MoS ₂ Hybrid Structure. <i>Nanomaterials</i> , 2022 , 12, 2219	5.4	1

24	A Fiber-Based SPR Aptasensor for the In Vitro Detection of Inflammation Biomarkers. <i>Micromachines</i> , 2022 , 13, 1036	3-3	1
23	Design of a compact and highly sensitive modal interferometer using hybrid modes of a dielectric loaded plasmonic waveguide. 2022 , 61, 7197		
22	Surface oxidization effect on the mechanical behavior of aluminum nanopowders under triaxial compression test. 2022 , 606, 154907		0
21	Micro-liquid volume measurements realized by changing the plasmonic conditions via specialty optical fibers. 2022 ,		0
20	Plasmonic Sensors based on 3D-printed polymer waveguides covered by a metals bilayer. 2022 ,		0
19	A simple and highly sensitive Force Sensor based on modified plastic optical fibers and cantilevers. 2022 ,		0
18	Biomedical Applications of an Ultra-Sensitive Surface Plasmon Resonance Biosensor Based on Smart MXene Quantum Dots (SMQDs). 2022 , 12, 743		2
17	Biosensors for detection of prostate cancer: a review. 2022 , 24,		1
16	Spin and Wavelength Multiplexed Eight-Channel Surface Plasmon Metalensing.		0
15	Materials Perspectives of Integrated Plasmonic Biosensors. 2022 , 15, 7289		0
14	Flexible Electronics and Bioelectronics Devices. 2023 , 959-1018		0
13	Design and manufacturing of a surface plasmon resonance sensor based on inkjet 3D printing for simultaneous measurements of refractive index and temperature.		1
12	Plasmonic Sensors beyond the Phase Matching Condition: A Simplified Approach. 2022 , 22, 9994		0
11	Refractive Index Measurement Using SOI Photodiode with SP Antenna toward SOI CMOS-Compatible Integrated Optical Biosensor. 2023 , 23, 568		0
10	Biosensors for drug detection. 2023 , 383-412		0
9	Direct Identification of Label-Free Gram-Negative Bacteria with Bioreceptor-Free Concentric Interdigitated Electrodes. 2023 , 13, 179		0
8	Multiple protein-patterned surface plasmon resonance biochip for the detection of human immunoglobulin-G.		0
7	Photoacoustic and optical spectroscopy of dye-coated plasmonic thin films of silver and gold. 2023 , 333-358		0

- 6 Biosensors. **2021**, 357-393 ○
- 5 Transducers in Biosensors. **2023**, 101-125 ○
- 4 Monitoring of Microbial Safety of Foods Using Lectins: A Review. 2, ○
- 3 SENSING ELEMENT OF THE SURFACE PLASMON SENSOR WITH THERMAL MODIFICATION OF THE STRUCTURAL PROPERTIES OF THE POLYMER SUBSTRATE. **2022**, 57, 82-92 ○
- 2 Geometric Phase Control of Surface Plasmons by Dipole Sources. ○
- 1 Multifunctional organic monolayer-based coatings for implantable biosensors and bioelectronic devices: Review and perspectives. **2023**, 14, 100349 ○