Marek Piliarik

List of Publications by Year in descending order

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Μλάξε Οιιιλαικ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Surface plasmon resonance (SPR) sensors: approaching their limits?. Optics Express, 2009, 17, 16505. | 3.4 | 601 |
| 2 | Ultralow Fouling and Functionalizable Surface Chemistry Based on a Zwitterionic Polymer Enabling Sensitive and Specific Protein Detection in Undiluted Blood Plasma. Analytical Chemistry, 2008, 80, 7894-7901. | 6.5 | 381 |
| 3 | Direct optical sensing of single unlabelled proteins and super-resolution imaging of their binding sites. Nature Communications, 2014, 5, 4495. | 12.8 | 245 |
| 4 | Surface plasmon resonance sensor based on a single-mode polarization-maintaining optical fiber. Sensors and Actuators B: Chemical, 2003, 90, 236-242. | 7.8 | 226 |
| 5 | High-throughput SPR sensor for food safety. Biosensors and Bioelectronics, 2009, 24, 1399-1404. | 10.1 | 211 |
| 6 | Multi-analyte surface plasmon resonance biosensing. Methods, 2005, 37, 26-36. | 3.8 | 183 |
| 7 | Surface Plasmon Resonance Biosensing. Methods in Molecular Biology, 2009, 503, 65-88. | 0.9 | 172 |
| 8 | Functionalizable surface platform with reduced nonspecific protein adsorption from full blood plasma—Material selection and protein immobilization optimization. Biosensors and Bioelectronics, 2009, 24, 1924-1930. | 10.1 | 170 |
| 9 | A label-free and portable multichannel surface plasmon resonance immunosensor for on site analysis of antibiotics in milk samples. Biosensors and Bioelectronics, 2010, 26, 1231-1238. | 10.1 | 166 |
| 10 | A new surface plasmon resonance sensor for high-throughput screening applications. Biosensors and Bioelectronics, 2005, 20, 2104-2110. | 10.1 | 161 |
| 11 | Data analysis for optical sensors based on spectroscopy of surface plasmons. Measurement Science and Technology, 2002, 13, 2038-2046. | 2.6 | 146 |
| 12 | Surface plasmon resonance biosensor for parallelized detection of protein biomarkers in diluted blood plasma. Biosensors and Bioelectronics, 2010, 26, 1656-1661. | 10.1 | 124 |
| 13 | Label-free detection of cancer biomarker candidates using surface plasmon resonance imaging. Analytical and Bioanalytical Chemistry, 2009, 393, 1157-1163. | 3.7 | 104 |
| 14 | Compact and low-cost biosensor based on novel approach to spectroscopy of surface plasmons. Biosensors and Bioelectronics, 2009, 24, 3430-3435. | 10.1 | 104 |
| 15 | High-resolution biosensor based on localized surface plasmons. Optics Express, 2012, 20, 672. | 3.4 | 99 |
| 16 | Ultra-low fouling and functionalizable zwitterionic coatings grafted onto SiO2 via a biomimetic adhesive group for sensing and detection in complex media. Biosensors and Bioelectronics, 2010, 25, 2276-2282. | 10.1 | 95 |
| 17 | Surface plasmon resonance biosensor for direct detection of antibody against Epstein-Barr virus. Biosensors and Bioelectronics, 2007, 22, 1020-1026. | 10.1 | 89 |
| 18 | Local refractive index sensitivity of plasmonic nanoparticles. Optics Express, 2011, 19, 9213. | 3.4 | 77 |

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|----|---|------|-----------|
| 19 | High-performance compact SPR sensor for multi-analyte sensing. Sensors and Actuators B: Chemical, 2010, 148, 544-549. | 7.8 | 58 |
| 20 | Visualization of lipids and proteins at high spatial and temporal resolution via interferometric scattering (iSCAT) microscopy. Journal Physics D: Applied Physics, 2016, 49, 274002. | 2.8 | 58 |
| 21 | Towards parallelized surface plasmon resonance sensor platform for sensitive detection of oligonucleotides. Sensors and Actuators B: Chemical, 2007, 121, 187-193. | 7.8 | 55 |
| 22 | Novel concept of multi-channel fiber optic surface plasmon resonance sensor. Sensors and Actuators B: Chemical, 2009, 139, 199-203. | 7.8 | 50 |
| 23 | Surface plasmon resonance sensor with dispersionless microfluidics for direct detection of nucleic acids at the low femtomole level. Sensors and Actuators B: Chemical, 2010, 145, 588-591. | 7.8 | 50 |
| 24 | Visualizing Single-Cell Secretion Dynamics with Single-Protein Sensitivity. Nano Letters, 2018, 18, 513-519. | 9.1 | 50 |
| 25 | Hybrid Surface Platform for the Simultaneous Detection of Proteins and DNAs Using a Surface Plasmon Resonance Imaging Sensor. Analytical Chemistry, 2008, 80, 4231-4236. | 6.5 | 47 |
| 26 | Detection of bisphenol A using a novel surface plasmon resonance biosensor. Analytical and Bioanalytical Chemistry, 2010, 398, 1963-1966. | 3.7 | 46 |
| 27 | Self-referencing SPR imaging for most demanding high-throughput screening applications. Sensors and Actuators B: Chemical, 2008, 134, 353-355. | 7.8 | 37 |
| 28 | Real-time monitoring of biomolecular interactions in blood plasma using a surface plasmon resonance biosensor. Analytical and Bioanalytical Chemistry, 2010, 398, 1955-1961. | 3.7 | 35 |
| 29 | [INVITED] Optical imaging and localization of prospective scattering labels smaller than a single protein. Optics and Laser Technology, 2019, 109, 323-327. | 4.6 | 23 |
| 30 | SPR Sensor Instrumentation. Springer Series on Chemical Sensors and Biosensors, 2006, , 95-116. | 0.5 | 18 |
| 31 | Fast photothermal spatial light modulation for quantitative phase imaging at the nanoscale. Nature Communications, 2021, 12, 2921. | 12.8 | 18 |
| 32 | Portable Surface Plasmon Resonance Biosensor for Detection of Nucleic Acids. Procedia Engineering, 2011, 25, 148-151. | 1.2 | 15 |
| 33 | Anomalous elasticity and damping in covalently cross-linked graphene aerogels. Communications Physics, 2022, 5, . | 5.3 | 15 |
| 34 | Surface plasmon resonance biosensors. Proceedings of SPIE, 2007, 6619, 68. | 0.8 | 12 |
| 35 | Nanoscopic Structural Fluctuations of Disassembling Microtubules Revealed by Labelâ€Free Superâ€Resolution Microscopy. Small Methods, 2021, 5, e2000985. | 8.6 | 12 |
| 36 | Novel polarization control for high-throughput surface plasmon resonance sensors. , 2007, , . | | 10 |

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|----|--|------|-----------|
| 37 | Multiscale modeling and analysis for high-fidelity interferometric scattering microscopy. Journal Physics D: Applied Physics, 2021, 54, 274002. | 2.8 | 5 |
| 38 | Advances in development of miniature fiber optic surface plasmon resonance sensors. , 2001, , . | | 3 |
| 39 | Fast Leaps between Millisecond Confinements Govern Ase1 Diffusion along Microtubules. Small Methods, 2021, 5, e2100370. | 8.6 | 3 |
| 40 | Interferometric scattering (iSCAT) microscopy for high fidelity tracking at microseconds timescales. , 2018, , . | | 3 |
| 41 | Surface plasmon resonance imaging for parallelized detection of protein biomarkers. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 42 | Compact multi-channel high-sensitivity biosensor based on spectroscopy of surface plasmons. , 2009, , | | 1 |
| 43 | Quantitative detection of optical anisotropy of single microtubules by polarization-sensitive interferometric scattering microscopy. Journal Physics D: Applied Physics, 2021, 54, 204001. | 2.8 | 1 |
| 44 | Fluorescence-free Imaging and Tracking of Individual Secretory Proteins and Bioparticles. , 2017, , . | | 0 |
| 45 | High-Fidelity Fast Tracking of Protein Motion. , 2018, , . | | 0 |
| 46 | Weighing single protein complexes on the go. Nature Methods, 2021, 18, 1159-1160. | 19.0 | 0 |
| 47 | Interferometric scattering (iSCAT) microscopy with optimized reference wave. , 2019, , . | | 0 |
| 48 | Quantitative phase imaging at the nanoscale using interferometric microscope and thermo-optic effect. , 2021, , . | | 0 |