

Marek Piliarik

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

4,161
citations

172457

29
h-index

289244

40
g-index

53
all docs

53
docs citations

53
times ranked

4848
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous elasticity and damping in covalently cross-linked graphene aerogels. Communications Physics, 2022, 5, .	5.3	15
2	Nanoscope Structural Fluctuations of Disassembling Microtubules Revealed by Label-Free Super-Resolution Microscopy. Small Methods, 2021, 5, e2000985.	8.6	12
3	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
4	Multiscale modeling and analysis for high-fidelity interferometric scattering microscopy. Journal Physics D: Applied Physics, 2021, 54, 274002.	2.8	5
5	Fast photothermal spatial light modulation for quantitative phase imaging at the nanoscale. Nature Communications, 2021, 12, 2921.	12.8	18
6	Fast Leaps between Millisecond Confinements Govern Ase1 Diffusion along Microtubules. Small Methods, 2021, 5, e2100370.	8.6	3
7	Weighing single protein complexes on the go. Nature Methods, 2021, 18, 1159-1160.	19.0	0
8	Quantitative phase imaging at the nanoscale using interferometric microscope and thermo-optic effect. , 2021, , .		0
9	[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
10	Interferometric scattering (iSCAT) microscopy with optimized reference wave. , 2019, , .		0
11	Visualizing Single-Cell Secretion Dynamics with Single-Protein Sensitivity. Nano Letters, 2018, 18, 513-519.	9.1	50
12	High-Fidelity Fast Tracking of Protein Motion. , 2018, , .		0
13	Interferometric scattering (iSCAT) microscopy for high fidelity tracking at microseconds timescales. , 2018, , .		3
14	Fluorescence-free Imaging and Tracking of Individual Secretory Proteins and Bioparticles. , 2017, , .		0
15	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
16	Direct optical sensing of single unlabelled proteins and super-resolution imaging of their binding sites. Nature Communications, 2014, 5, 4495.	12.8	245
17	High-resolution biosensor based on localized surface plasmons. Optics Express, 2012, 20, 672.	3.4	99
18	Portable Surface Plasmon Resonance Biosensor for Detection of Nucleic Acids. Procedia Engineering, 2011, 25, 148-151.	1.2	15

#	ARTICLE	IF	CITATIONS
19	Local refractive index sensitivity of plasmonic nanoparticles. <i>Optics Express</i> , 2011, 19, 9213.	3.4	77
20	Detection of bisphenol A using a novel surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1963-1966.	3.7	46
21	Real-time monitoring of biomolecular interactions in blood plasma using a surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1955-1961.	3.7	35
22	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, 1231-1238.	10.1	166
23	High-performance compact SPR sensor for multi-analyte sensing. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 544-549.	7.8	58
24	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.	7.8	50
25	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, 2276-2282.	10.1	95
26	Surface plasmon resonance biosensor for parallelized detection of protein biomarkers in diluted blood plasma. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1656-1661.	10.1	124
27	High-throughput SPR sensor for food safety. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1399-1404.	10.1	211
28	Label-free detection of cancer biomarker candidates using surface plasmon resonance imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1157-1163.	3.7	104
29	Novel concept of multi-channel fiber optic surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 199-203.	7.8	50
30	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, 1924-1930.	10.1	170
31	Compact and low-cost biosensor based on novel approach to spectroscopy of surface plasmons. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3430-3435.	10.1	104
32	Surface plasmon resonance (SPR) sensors: approaching their limits?. <i>Optics Express</i> , 2009, 17, 16505.	3.4	601
33	Surface Plasmon Resonance Biosensing. <i>Methods in Molecular Biology</i> , 2009, 503, 65-88.	0.9	172
34	Surface plasmon resonance imaging for parallelized detection of protein biomarkers. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
35	Compact multi-channel high-sensitivity biosensor based on spectroscopy of surface plasmons. , 2009, , .		1
36	Self-referencing SPR imaging for most demanding high-throughput screening applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 353-355.	7.8	37

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37	Hybrid Surface Platform for the Simultaneous Detection of Proteins and DNAs Using a Surface Plasmon Resonance Imaging Sensor. <i>Analytical Chemistry</i> , 2008, 80, 4231-4236.	6.5	47
38	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, 7894-7901.	6.5	381
39	Surface plasmon resonance biosensors. <i>Proceedings of SPIE</i> , 2007, 6619, 68.	0.8	12
40	Novel polarization control for high-throughput surface plasmon resonance sensors. , 2007, , .		10
41	Surface plasmon resonance biosensor for direct detection of antibody against Epstein-Barr virus. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1020-1026.	10.1	89
42	Towards parallelized surface plasmon resonance sensor platform for sensitive detection of oligonucleotides. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 187-193.	7.8	55
43	SPR Sensor Instrumentation. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2006, , 95-116.	0.5	18
44	A new surface plasmon resonance sensor for high-throughput screening applications. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2104-2110.	10.1	161
45	Multi-analyte surface plasmon resonance biosensing. <i>Methods</i> , 2005, 37, 26-36.	3.8	183
46	Surface plasmon resonance sensor based on a single-mode polarization-maintaining optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2003, 90, 236-242.	7.8	226
47	Data analysis for optical sensors based on spectroscopy of surface plasmons. <i>Measurement Science and Technology</i> , 2002, 13, 2038-2046.	2.6	146
48	Advances in development of miniature fiber optic surface plasmon resonance sensors. , 2001, , .		3