

Johanna Walter

List of Publications by Year in descending order

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44
papers

1,481
citations

304743

22
h-index

315739

38
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47
all docs

47
docs citations

47
times ranked

2036
citing authors

#	ARTICLE	IF	CITATIONS
1	Niosomes as Nanoparticulate Drug Carriers: Fundamentals and Recent Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-13.	2.7	225
2	Systematic Investigation of Optimal Aptamer Immobilization for Protein ² Microarray Applications. <i>Analytical Chemistry</i> , 2008, 80, 7372-7378.	6.5	97
3	Toxicity, phototoxicity and biocidal activity of nanoparticles employed in photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 29, 1-28.	11.6	90
4	Label-Free Optical Biosensors Based on Aptamer-Functionalized Porous Silicon Scaffolds. <i>Analytical Chemistry</i> , 2015, 87, 1999-2006.	6.5	87
5	Aptamer ² -based downstream processing of his ⁶ -tagged proteins utilizing magnetic beads. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2371-2379.	3.3	69
6	Aptamers vs. antibodies as capture probes in optical porous silicon biosensors. <i>Analyst</i> , The, 2020, 145, 4991-5003.	3.5	62
7	Aptasensors for Point-of-Care Detection of Small Molecules. <i>Biosensors</i> , 2020, 10, 108.	4.7	48
8	SPR Biosensor Based on Polymer Multi-Mode Optical Waveguide and Nanoparticle Signal Enhancement. <i>Sensors</i> , 2020, 20, 2889.	3.8	48
9	Aptamers as affinity ligands for downstream processing. <i>Engineering in Life Sciences</i> , 2012, 12, 496-506.	3.6	46
10	Aptamer Microarrays ² Current Status and Future Prospects. <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 115-132.	1.4	44
11	Aptamers: versatile probes for flow cytometry. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7097-7109.	3.6	41
12	Rapid and label-free detection of protein a by aptamer-tethered porous silicon nanostructures. <i>Journal of Biotechnology</i> , 2017, 257, 171-177.	3.8	41
13	Aptamer-Modified Magnetic Beads in Biosensing. <i>Sensors</i> , 2018, 18, 1041.	3.8	40
14	Identification of the Target Binding Site of Ethanolamine-Binding Aptamers and Its Exploitation for Ethanolamine Detection. <i>Analytical Chemistry</i> , 2015, 87, 677-685.	6.5	39
15	Aptamer-based lateral flow assays. <i>AIMS Bioengineering</i> , 2018, 5, 78-102.	1.1	37
16	Aptasensors for Small Molecule Detection. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 976-986.	0.7	34
17	Development of an aptamer-based affinity purification method for vascular endothelial growth factor. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 16-23.	4.4	30
18	Living Cell Microarrays: An Overview of Concepts. <i>Microarrays (Basel, Switzerland)</i> , 2016, 5, 11.	1.4	29

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19	All-Optical Planar Polymer Waveguide-Based Biosensor Chip Designed for Smartphone-Assisted Detection of Vitamin D. <i>Sensors</i> , 2020, 20, 6771.	3.8	28
20	Aptamer-based depletion of small molecular contaminants: A case study using ochratoxin A. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 1016-1025.	2.6	27
21	Aptamer mediated niosomal drug delivery. <i>RSC Advances</i> , 2016, 6, 87910-87918.	3.6	26
22	Evaluation of CdTe/CdS/ZnS core/shell/shell quantum dot toxicity on three-dimensional spheroid cultures. <i>Toxicology Research</i> , 2016, 5, 126-135.	2.1	26
23	Characterization of Optimal Aptamer-Microarray Binding Chemistry and Spacer Design. <i>Chemical Engineering and Technology</i> , 2011, 34, 2022-2028.	1.5	22
24	Characterization of an Aptamer Directed against 25-Hydroxyvitamin D for the Development of a Competitive Aptamer-Based Assay. <i>Biosensors</i> , 2019, 9, 134.	4.7	21
25	Identification of Major Constituents of <i>Hypericum perforatum</i> L. Extracts in Syria by Development of a Rapid, Simple, and Reproducible HPLC-ESI-Q-TOF MS Analysis and Their Antioxidant Activities. <i>ACS Omega</i> , 2022, 7, 13475-13493.	3.5	21
26	Analysis of oxygen-dependent cytokine expression in human mesenchymal stem cells derived from umbilical cord. <i>Cell and Tissue Research</i> , 2013, 353, 117-122.	2.9	20
27	Production of polycaprolactone nanoparticles with hydrodynamic diameters below 100Ånm. <i>Engineering in Life Sciences</i> , 2019, 19, 658-665.	3.6	20
28	Aqueous extract of <i>Eucalyptus camaldulensis</i> leaves as reducing and capping agent in biosynthesis of silver nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 895-902.	1.6	19
29	One-pot aqueous synthesis of highly strained CdTe/CdS/ZnS nanocrystals and their interactions with cells. <i>RSC Advances</i> , 2015, 5, 7485-7494.	3.6	18
30	Aptamer-modified polymer nanoparticles for targeted drug delivery. <i>BioNanoMaterials</i> , 2016, 17, 43-51.	1.4	15
31	Aptamer-based detection of adenosine triphosphate via qPCR. <i>Talanta</i> , 2017, 172, 199-205.	5.5	15
32	Detection of ochratoxin A by aptamer-assisted real-time PCR-based assay (Apta-qPCR). <i>Engineering in Life Sciences</i> , 2017, 17, 923-930.	3.6	15
33	Aptamers as detection molecules on reverse phase protein microarrays for the analysis of cell lysates. <i>Engineering in Life Sciences</i> , 2012, 12, 144-151.	3.6	13
34	Aptamer-Modified Nanoparticles in Medical Applications. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020, 174, 161-193.	1.1	13
35	Comparing two conventional methods of emulsion PCR and optimizing of Tegosoft-based emulsion PCR. <i>Engineering in Life Sciences</i> , 2017, 17, 953-958.	3.6	10
36	Aptamer-Modified Nanoparticles as Biosensors. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 121-154.	1.1	9

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37	Transcriptome Analysis. , 2011, 127, 1-25.		8
38	Development of Aptamer-Based TID Assays Using Thermophoresis and Microarrays. Biosensors, 2019, 9, 124.	4.7	7
39	Aptazymes: Expanding the Specificity of Natural Catalytic Nucleic Acids by Application of In Vitro Selected Oligonucleotides. Advances in Biochemical Engineering/Biotechnology, 2019, 170, 107-119.	1.1	7
40	Aptamer-Modified Magnetic Beads in Affinity Separation of Proteins. Methods in Molecular Biology, 2015, 1286, 67-82.	0.9	6
41	Porous Silicon Biosensors Employing Emerging Capture Probes. Springer Series in Materials Science, 2015, , 93-116.	0.6	4
42	Aptamere in der Biosensorik. Chemie-Ingenieur-Technik, 2008, 80, 771-781.	0.8	1
43	Microarray-basiertes Screening von Aptameren fr analytische Methoden. Chemie-Ingenieur-Technik, 2010, 82, 1551-1551.	0.8	0
44	Aptamer-Modified Hydrogels. Advances in Biochemical Engineering/Biotechnology, 2021, 178, 147-168.	1.1	0