

Andrea Idili

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,089
citations

257450

24
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Cost, User-Friendly, All-Integrated Smartphone-Based Microplate Reader for Optical-Based Biological and Chemical Analyses. <i>Analytical Chemistry</i> , 2022, 94, 1271-1285.	6.5	29
2	Optical smartphone-based sensing: diagnostic of biomarkers. , 2022, , 277-302.		1
3	Continuous monitoring of molecular biomarkers in microfluidic devices. <i>Progress in Molecular Biology and Translational Science</i> , 2022, 187, 295-333.	1.7	0
4	Paper-based biosensors for cancer diagnostics. <i>Trends in Chemistry</i> , 2022, 4, 554-567.	8.5	14
5	A Programmable Electrochemical Y-shaped DNA Scaffold Sensor for the Single-Step Detection of Antibodies and Proteins in Untreated Biological Fluids. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
6	Seconds-Resolved, In Situ Measurements of Plasma Phenylalanine Disposition Kinetics in Living Rats. <i>Analytical Chemistry</i> , 2021, 93, 4023-4032.	6.5	35
7	Rapid and Efficient Detection of the SARS-CoV-2 Spike Protein Using an Electrochemical Aptamer-Based Sensor. <i>ACS Sensors</i> , 2021, 6, 3093-3101.	7.8	129
8	Nanodiagnostics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. <i>ACS Nano</i> , 2021, 15, 17137-17149.	14.6	32
9	Programmable Bivalent Peptide-DNA Locks for pH-Based Control of Antibody Activity. <i>ACS Central Science</i> , 2020, 6, 22-31.	11.3	29
10	Real-Time Monitoring of a Protein Biomarker. <i>ACS Sensors</i> , 2020, 5, 1877-1881.	7.8	60
11	Entropy-Based Rational Modulation of the K_a of a Synthetic pH-Dependent Nanoswitch. <i>Journal of the American Chemical Society</i> , 2019, 141, 11367-11371.	13.7	21
12	Seconds-resolved pharmacokinetic measurements of the chemotherapeutic irinotecan <i>in situ</i> in the living body. <i>Chemical Science</i> , 2019, 10, 8164-8170.	7.4	74
13	An electrochemical aptamer-based sensor for the rapid and convenient measurement of l-tryptophan. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4629-4635.	3.7	35
14	Programmable RNA-based systems for sensing and diagnostic applications. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4293-4302.	3.7	14
15	Calibration-Free Measurement of Phenylalanine Levels in the Blood Using an Electrochemical Aptamer-Based Sensor Suitable for Point-of-Care Applications. <i>ACS Sensors</i> , 2019, 4, 3227-3233.	7.8	78
16	DNA-Based Nanodevices Controlled by Purely Entropic Linker Domains. <i>Journal of the American Chemical Society</i> , 2018, 140, 14725-14734.	13.7	36
17	Engineering a responsive DNA triple helix into an octahedral DNA nanostructure for a reversible opening/closing switching mechanism: a computational and experimental integrated study. <i>Nucleic Acids Research</i> , 2018, 46, 9951-9959.	14.5	14
18	Design and Characterization of pH-Triggered DNA Nanoswitches and Nanodevices Based on DNA Triplex Structures. <i>Methods in Molecular Biology</i> , 2018, 1811, 79-100.	0.9	8

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19	Selective control of reconfigurable chiral plasmonic metamolecules. <i>Science Advances</i> , 2017, 3, e1602803.	10.3	178
20	Antibody-powered nucleic acid release using a DNA-based nanomachine. <i>Nature Communications</i> , 2017, 8, 15150.	12.8	108
21	Triplex-DNA-Nanostrukturen: von grundlegenden Eigenschaften zu Anwendungen. <i>Angewandte Chemie</i> , 2017, 129, 15410-15434.	2.0	42
22	Triplex DNA Nanostructures: From Basic Properties to Applications. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15210-15233.	13.8	257
23	Simulative and Experimental Characterization of a pH-Dependent Clamp-like DNA Triple-Helix Nanoswitch. <i>Journal of the American Chemical Society</i> , 2017, 139, 5321-5329.	13.7	22
24	A DNA Nanodevice That Loads and Releases a Cargo with Hemoglobin-Like Allosteric Control and Cooperativity. <i>Nano Letters</i> , 2017, 17, 3225-3230.	9.1	25
25	Determining the folding and binding free energy of DNA-based nanodevices and nanoswitches using urea titration curves. <i>Nucleic Acids Research</i> , 2017, 45, 7571-7580.	14.5	26
26	Allosteric DNA nanoswitches for controlled release of a molecular cargo triggered by biological inputs. <i>Chemical Science</i> , 2017, 8, 914-920.	7.4	23
27	A modular clamp-like mechanism to regulate the activity of nucleic-acid target-responsive nanoswitches with external activators. <i>Nanoscale</i> , 2016, 8, 18057-18061.	5.6	25
28	Electronic control of DNA-based nanoswitches and nanodevices. <i>Chemical Science</i> , 2016, 7, 66-71.	7.4	48
29	Controlling Hybridization Chain Reactions with pH. <i>Nano Letters</i> , 2015, 15, 5539-5544.	9.1	49
30	General Strategy to Introduce pH-Induced Allostery in DNA-Based Receptors to Achieve Controlled Release of Ligands. <i>Nano Letters</i> , 2015, 15, 4467-4471.	9.1	91
31	Rational Design of pH-Controlled DNA Strand Displacement. <i>Journal of the American Chemical Society</i> , 2014, 136, 16469-16472.	13.7	110
32	A modular electrochemical peptide-based sensor for antibody detection. <i>Chemical Communications</i> , 2014, 50, 8962.	4.1	40
33	Programmable pH-Triggered DNA Nanoswitches. <i>Journal of the American Chemical Society</i> , 2014, 136, 5836-5839.	13.7	296
34	Folding-Upon-Binding and Signal-On Electrochemical DNA Sensor with High Affinity and Specificity. <i>Analytical Chemistry</i> , 2014, 86, 9013-9019.	6.5	72
35	Thermodynamic Basis for Engineering High-Affinity, High-Specificity Binding-Induced DNA Clamp Nanoswitches. <i>ACS Nano</i> , 2013, 7, 10863-10869.	14.6	58