

Kyung-Ae Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/275225/publications.pdf>

Version: 2024-02-01

19
papers

1,464
citations

623734

14
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

1462
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptamer- <i>field-effect</i> transistors overcome Debye length limitations for small-molecule sensing. <i>Science</i> , 2018, 362, 319-324.	12.6	570
2	Electrochemical Aptamer-Based Sensors for Improved Therapeutic Drug Monitoring and High-Precision, Feedback-Controlled Drug Delivery. <i>ACS Sensors</i> , 2019, 4, 2832-2837.	7.8	142
3	Recognition and sensing of low-epitope targets via ternary complexes with oligonucleotides and synthetic receptors. <i>Nature Chemistry</i> , 2014, 6, 1003-1008.	13.6	118
4	Wearable aptamer- <i>field-effect</i> transistor sensing system for noninvasive cortisol monitoring. <i>Science Advances</i> , 2022, 8, eabk0967.	10.3	118
5	In vitro selection and amplification protocols for isolation of aptameric sensors for small molecules. <i>Methods</i> , 2016, 106, 58-65.	3.8	92
6	High-Affinity Nucleic-Acid-Based Receptors for Steroids. <i>ACS Chemical Biology</i> , 2017, 12, 3103-3112.	3.4	82
7	Optimizing Cross-reactivity with Evolutionary Search for Sensors. <i>Journal of the American Chemical Society</i> , 2012, 134, 1642-1647.	13.7	71
8	Phenylalanine Monitoring via Aptamer- <i>Field-Effect</i> Transistor Sensors. <i>ACS Sensors</i> , 2019, 4, 3308-3317.	7.8	57
9	Divalent Cation Dependence Enhances Dopamine Aptamer Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9425-9435.	8.0	42
10	In vitro isolation of small-molecule-binding aptamers with intrinsic dye-displacement functionality. <i>Nucleic Acids Research</i> , 2018, 46, e43-e43.	14.5	39
11	Development of novel fluorescence-based and label-free noncanonical G4-quadruplex-like DNA biosensor for facile, specific, and ultrasensitive detection of fipronil. <i>Journal of Hazardous Materials</i> , 2022, 427, 127939.	12.4	34
12	Structure-switching aptamer sensors for the specific detection of piperazine and mefloquine. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	26
13	Integrated Microfluidic Isolation of Aptamers Using Electrophoretic Oligonucleotide Manipulation. <i>Scientific Reports</i> , 2016, 6, 26139.	3.3	22
14	Novel ssDNA aptamer-based fluorescence sensor for perfluorooctanoic acid detection in water. <i>Environment International</i> , 2022, 158, 107000.	10.0	21
15	Integrated Microfluidic Selex Using Free Solution Electrokinetics. <i>Journal of the Electrochemical Society</i> , 2017, 164, B3122-B3129.	2.9	14
16	Hydrogel Microfilaments toward Intradermal Health Monitoring. <i>iScience</i> , 2019, 21, 328-340.	4.1	12
17	Microcompartments for Protection and Isolation of Nanoscale DNA Computing Elements. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11262-11269.	8.0	4
18	Molecular learning with DNA kernel machines. <i>BioSystems</i> , 2015, 137, 73-83.	2.0	0

#	ARTICLE	IF	CITATIONS
19	Microfluidic Isolation of Aptamers for Glycan Targets. , 2019, , .		0