

# Frank J Hernandez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/626372/publications.pdf>

Version: 2024-02-01

26  
papers

1,208  
citations

471509

17  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Delivery of chemo-sensitizing siRNAs to HER2+breast cancer cells using RNA aptamers. <i>Nucleic Acids Research</i> , 2012, 40, 6319-6337.	14.5	186
2	Improved thrombin binding aptamer by incorporation of a single unlocked nucleic acid monomer. <i>Nucleic Acids Research</i> , 2011, 39, 1155-1164.	14.5	155
3	Rational Truncation of an RNA Aptamer to Prostate-Specific Membrane Antigen Using Computational Structural Modeling. <i>Nucleic Acid Therapeutics</i> , 2011, 21, 299-314.	3.6	106
4	Targeted Inhibition of Prostate Cancer Metastases with an RNA Aptamer to Prostate-specific Membrane Antigen. <i>Molecular Therapy</i> , 2014, 22, 1910-1922.	8.2	91
5	Noninvasive imaging of <i>Staphylococcus aureus</i> infections with a nuclease-activated probe. <i>Nature Medicine</i> , 2014, 20, 301-306.	30.7	91
6	Graphene and Other Nanomaterial-Based Electrochemical Aptasensors. <i>Biosensors</i> , 2012, 2, 1-14.	4.7	82
7	<i>Staphylococcus aureus</i> detection in blood samples by silica nanoparticle-oligonucleotides conjugates. <i>Biosensors and Bioelectronics</i> , 2016, 86, 27-32.	10.1	64
8	<i>Staphylococcus aureus</i> Nuc2 Is a Functional, Surface-Attached Extracellular Nuclease. <i>PLoS ONE</i> , 2014, 9, e95574.	2.5	58
9	Aptamers as a model for functional evaluation of LNA and 2'-amino LNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6585-6587.	2.2	56
10	Targeting cancer cells with controlled release nanocapsules based on a single aptamer. <i>Chemical Communications</i> , 2013, 49, 1285.	4.1	48
11	RNA Aptamer-Based Functional Ligands of the Neurotrophin Receptor, TrkB. <i>Molecular Pharmacology</i> , 2012, 82, 623-635.	2.3	39
12	Degradation of Nuclease-Stabilized RNA Oligonucleotides in Mycoplasma-Contaminated Cell Culture Media. <i>Nucleic Acid Therapeutics</i> , 2012, 22, 58-68.	3.6	32
13	Aptamers Overview: Selection, Features and Applications. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1066-1081.	2.1	31
14	Methods for Evaluating Cell-Specific, Cell-Internalizing RNA Aptamers. <i>Pharmaceuticals</i> , 2013, 6, 295-319.	3.8	30
15	Small molecule detection by lateral flow strips via aptamer-gated silica nanoprobe. <i>Analyst</i> , 2016, 141, 2595-2599.	3.5	26
16	Rapid and specific detection of <i>Salmonella</i> infections using chemically modified nucleic acid probes. <i>Analytica Chimica Acta</i> , 2019, 1054, 157-166.	5.4	23
17	NanoKeepers: stimuli responsive nanocapsules for programmed specific targeting and drug delivery. <i>Chemical Communications</i> , 2014, 50, 9489-9492.	4.1	20
18	Nucleases as molecular targets for cancer diagnosis. <i>Biomarker Research</i> , 2021, 9, 86.	6.8	20

#	ARTICLE	IF	CITATIONS
19	Nuclease activity as a specific biomarker for breast cancer. <i>Chemical Communications</i> , 2016, 52, 12346-12349.	4.1	11
20	Discovery and Proof-of-Concept Study of Nuclease Activity as a Novel Biomarker for Breast Cancer Tumors. <i>Cancers</i> , 2021, 13, 276.	3.7	8
21	Activatable MRI probes for the specific detection of bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7353-7362.	3.7	7
22	Nuclease activity: an exploitable biomarker in bacterial infections. <i>Expert Review of Molecular Diagnostics</i> , 2022, 22, 265-294.	3.1	7
23	Catalysis of a 1,3-dipolar reaction by distorted DNA incorporating a heterobimetallic platinum(II) and copper(II) complex. <i>Chemical Science</i> , 2017, 8, 7038-7046.	7.4	6
24	Rational Design and Experimental Analysis of Short-Oligonucleotide Substrate Specificity for Targeting Bacterial Nucleases. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 12855-12864.	6.4	5
25	Kinetic Screening of Nuclease Activity using Nucleic Acid Probes. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
26	Ultra-Sensitive and Specific Detection of <i>S. aureus</i> Bacterial Cultures Using an Oligonucleotide Probe Integrated in a Lateral Flow-Based Device. <i>Diagnostics</i> , 2021, 11, 2022.	2.6	2