Nataliia Guz

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7786639/publications.pdf

Version: 2024-02-01

27	840	430874	501196
papers	citations	18 h-index	28 g-index

29	29	29	808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bridging the Two Worlds: A Universal Interface between Enzymatic and DNA Computing Systems. Angewandte Chemie - International Edition, 2015, 54, 6562-6566.	13.8	106
2	Magnetic field remotely controlled selective biocatalysis. Nature Catalysis, 2018, 1, 73-81.	34.4	84
3	Substance Release Triggered by Biomolecular Signals in Bioelectronic Systems. Journal of Physical Chemistry Letters, 2015, 6, 1340-1347.	4.6	74
4	Pacemaker Activated by an Abiotic Biofuel Cell Operated in Human Serum Solution. Electroanalysis, 2014, 26, 2445-2457.	2.9	53
5	Majority and Minority Gates Realized in Enzyme-Biocatalyzed Systems Integrated with Logic Networks and Interfaced with Bioelectronic Systems. Journal of Physical Chemistry B, 2014, 118, 6775-6784.	2.6	49
6	Magnetic Field-Activated Sensing of mRNA in Living Cells. Journal of the American Chemical Society, 2017, 139, 12117-12120.	13.7	44
7	Activation of a Biocatalytic Electrode by Removing Glucose Oxidase from the Surfaceâ€"Application to Signal Triggered Drug Release. ACS Applied Materials & Interfaces, 2014, 6, 13349-13354.	8.0	37
8	Bioelectronic Interface Connecting Reversible Logic Gates Based on Enzyme and DNA Reactions. ChemPhysChem, 2016, 17, 2247-2255.	2.1	35
9	Enzymatic filter for improved separation of output signals in enzyme logic systems towards â€˜sense and treatâ€™ medicine. Biomaterials Science, 2014, 2, 184-191.	5.4	32
10	Antibacterial Drug Release Electrochemically Stimulated by the Presence of Bacterial Cells â€“ Theranostic Approach. Electroanalysis, 2014, 26, 2552-2557.	2.9	29
11	A Biofuel Cell Based on Biocatalytic Reactions of Glucose on Both Anode and Cathode Electrodes. Electroanalysis, 2017, 29, 950-954.	2.9	25
12	Nanoreactors based on DNAzyme-functionalized magnetic nanoparticles activated by magnetic field. Nanoscale, 2018, 10, 1356-1365.	5.6	24
13	A biocatalytic cascade with several output signalsâ€"towards biosensors with different levels of confidence. Analytical and Bioanalytical Chemistry, 2014, 406, 3365-3370.	3.7	22
14	Model system for targeted drug release triggered by immune-specific signals. Analytical and Bioanalytical Chemistry, 2014, 406, 4825-4829.	3.7	22
15	DNA Computing Systems Activated by Electrochemicallyâ€triggered DNA Release from a Polymerâ€brushâ€modified Electrode Array. Electroanalysis, 2017, 29, 398-408.	2.9	22
16	A bioelectronic system for insulin release triggered by ketone body mimicking diabetic ketoacidosis in vitro. Chemical Communications, 2015, 51, 7618-7621.	4.1	21
17	Wireless Information Transmission System Powered by an Abiotic Biofuel Cell Implanted in an Orange. Electroanalysis, 2015, 27, 276-280.	2.9	20
18	Grapheneâ€Functionalized 3Dâ€Carbon Fiber Electrodes â€“ Preparation and Electrochemical Characterization. Electroanalysis, 2016, 28, 1943-1946.	2.9	18

#	Article	IF	Citations
19	Electrochemicallyâ€controlled DNA Release under Physiological Conditions from a Monolayerâ€modified Electrode. Electroanalysis, 2017, 29, 324-329.	2.9	17
20	Starchâ€Powered Biofuel Cell Activated by Logically Processed Biomolecular Signals. ChemElectroChem, 2014, 1, 1822-1827.	3.4	16
21	Diffusion of Oligonucleotides from within Ironâ€Crossâ€Linked, Polyelectrolyteâ€Modified Alginate Beads: A Model System for Drug Release. ChemPhysChem, 2016, 17, 976-984.	2.1	15
22	Electrochemically Triggered DNA Release from a Mixedâ€brush Polymerâ€modified Electrode. Electroanalysis, 2016, 28, 2613-2625.	2.9	14
23	Electrochemically Stimulated DNA Release from a Polymerâ€Brush Modified Electrode. Electroanalysis, 2015, 27, 2171-2179.	2.9	11
24	Biomolecular Computing Realized in Parallel Flow Systems: Enzyme-Based Double Feynman Logic Gate. Parallel Processing Letters, 2015, 25, 1540001.	0.6	11
25	DNA Release from a Bioelectronic Interface Stimulated by a DNA Signal â€“ Amplification of DNA Signals. Electroanalysis, 2016, 28, 2692-2696.	2.9	10
26	An Enzymeâ€based 1:2 Demultiplexer Interfaced with an Electrochemical Actuator. ChemPhysChem, 2017, 18, 1721-1725.	2.1	6
27	Diffusion of Oligonucleotides from within Ironâ€Crossâ€Linked, Polyelectrolyteâ€Modified Alginate Beads: A Model System for Drug Release. ChemPhysChem, 2016, 17, 926-926.	2.1	1