

# Nataliia Guz

## List of Publications by Year in descending order

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27  
papers

840  
citations

430874

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501196

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times ranked

808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoreactors based on DNAzyme-functionalized magnetic nanoparticles activated by magnetic field. <i>Nanoscale</i> , 2018, 10, 1356-1365.	5.6	24
2	Magnetic field remotely controlled selective biocatalysis. <i>Nature Catalysis</i> , 2018, 1, 73-81.	34.4	84
3	A Biofuel Cell Based on Biocatalytic Reactions of Glucose on Both Anode and Cathode Electrodes. <i>Electroanalysis</i> , 2017, 29, 950-954.	2.9	25
4	Magnetic Field-Activated Sensing of mRNA in Living Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 12117-12120.	13.7	44
5	DNA Computing Systems Activated by Electrochemically-triggered DNA Release from a Polymer-brush-modified Electrode Array. <i>Electroanalysis</i> , 2017, 29, 398-408.	2.9	22
6	An Enzyme-based 1:2 Demultiplexer Interfaced with an Electrochemical Actuator. <i>ChemPhysChem</i> , 2017, 18, 1721-1725.	2.1	6
7	Electrochemically-controlled DNA Release under Physiological Conditions from a Monolayer-modified Electrode. <i>Electroanalysis</i> , 2017, 29, 324-329.	2.9	17
8	Electrochemically Triggered DNA Release from a Mixed-brush Polymer-modified Electrode. <i>Electroanalysis</i> , 2016, 28, 2613-2625.	2.9	14
9	Bioelectronic Interface Connecting Reversible Logic Gates Based on Enzyme and DNA Reactions. <i>ChemPhysChem</i> , 2016, 17, 2247-2255.	2.1	35
10	Diffusion of Oligonucleotides from within Iron-Cross-Linked, Polyelectrolyte-Modified Alginate Beads: A Model System for Drug Release. <i>ChemPhysChem</i> , 2016, 17, 926-926.	2.1	1
11	DNA Release from a Bioelectronic Interface Stimulated by a DNA Signal – Amplification of DNA Signals. <i>Electroanalysis</i> , 2016, 28, 2692-2696.	2.9	10
12	Diffusion of Oligonucleotides from within Iron-Cross-Linked, Polyelectrolyte-Modified Alginate Beads: A Model System for Drug Release. <i>ChemPhysChem</i> , 2016, 17, 976-984.	2.1	15
13	Graphene-Functionalized 3D-Carbon Fiber Electrodes – Preparation and Electrochemical Characterization. <i>Electroanalysis</i> , 2016, 28, 1943-1946.	2.9	18
14	Electrochemically Stimulated DNA Release from a Polymer-Brush Modified Electrode. <i>Electroanalysis</i> , 2015, 27, 2171-2179.	2.9	11
15	A bioelectronic system for insulin release triggered by ketone body mimicking diabetic ketoacidosis in vitro. <i>Chemical Communications</i> , 2015, 51, 7618-7621.	4.1	21
16	Substance Release Triggered by Biomolecular Signals in Bioelectronic Systems. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1340-1347.	4.6	74
17	Biomolecular Computing Realized in Parallel Flow Systems: Enzyme-Based Double Feynman Logic Gate. <i>Parallel Processing Letters</i> , 2015, 25, 1540001.	0.6	11
18	Bridging the Two Worlds: A Universal Interface between Enzymatic and DNA Computing Systems. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6562-6566.	13.8	106

#	ARTICLE	IF	CITATIONS
19	Wireless Information Transmission System Powered by an Abiotic Biofuel Cell Implanted in an Orange. <i>Electroanalysis</i> , 2015, 27, 276-280.	2.9	20
20	Pacemaker Activated by an Abiotic Biofuel Cell Operated in Human Serum Solution. <i>Electroanalysis</i> , 2014, 26, 2445-2457.	2.9	53
21	Starch-Powered Biofuel Cell Activated by Logically Processed Biomolecular Signals. <i>ChemElectroChem</i> , 2014, 1, 1822-1827.	3.4	16
22	Enzymatic filter for improved separation of output signals in enzyme logic systems towards "sense and treat" medicine. <i>Biomaterials Science</i> , 2014, 2, 184-191.	5.4	32
23	Majority and Minority Gates Realized in Enzyme-Biocatalyzed Systems Integrated with Logic Networks and Interfaced with Bioelectronic Systems. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6775-6784.	2.6	49
24	Activation of a Biocatalytic Electrode by Removing Glucose Oxidase from the Surface—Application to Signal Triggered Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13349-13354.	8.0	37
25	A biocatalytic cascade with several output signals—towards biosensors with different levels of confidence. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3365-3370.	3.7	22
26	Model system for targeted drug release triggered by immune-specific signals. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4825-4829.	3.7	22
27	Antibacterial Drug Release Electrochemically Stimulated by the Presence of Bacterial Cells—Theranostic Approach. <i>Electroanalysis</i> , 2014, 26, 2552-2557.	2.9	29