

Maria A Komkova

List of Publications by Year in descending order

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27
all docs

27
docs citations

27
times ranked

957
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#	ARTICLE	IF	CITATIONS
1	Catalytically Synthesized Prussian Blue Nanoparticles Defeating Natural Enzyme Peroxidase. Journal of the American Chemical Society, 2018, 140, 11302-11307.	6.6	220
2	Superstable Advanced Hydrogen Peroxide Transducer Based on Transition Metal Hexacyanoferrates. Analytical Chemistry, 2011, 83, 2359-2363.	3.2	120
3	Transition Metal Hexacyanoferrates in Electrocatalysis of H ₂ O ₂ Reduction: An Exclusive Property of Prussian Blue. Analytical Chemistry, 2014, 86, 4131-4134.	3.2	103
4	Prussian Blue modified boron-doped diamond interfaces for advanced H ₂ O ₂ electrochemical sensors. Electrochimica Acta, 2020, 339, 135924.	2.6	54
5	“Artificial peroxidase”™ nanozyme “enzyme based lactate biosensor. Talanta, 2020, 208, 120393.	2.9	45
6	Simultaneous monitoring of sweat lactate content and sweat secretion rate by wearable remote biosensors. Biosensors and Bioelectronics, 2022, 202, 113970.	5.3	38
7	Electrochemical and sensing properties of Prussian Blue based nanozymes “artificial peroxidase”. Journal of Electroanalytical Chemistry, 2020, 872, 114048.	1.9	37
8	Noiseless Performance of Prussian Blue Based (Bio)sensors through Power Generation. Analytical Chemistry, 2017, 89, 6290-6294.	3.2	34
9	Reagentless Polyol Detection by Conductivity Increase in the Course of Self-Doping of Boronate-Substituted Polyaniline. Analytical Chemistry, 2014, 86, 11690-11695.	3.2	26
10	Hydrogen Peroxide Detection in Wet Air with a Prussian Blue Based Solid Salt Bridged Three Electrode System. Analytical Chemistry, 2013, 85, 2574-2577.	3.2	16
11	Core-Shell Nanozymes “Artificial Peroxidase” Stability with Superior Catalytic Properties. Journal of Physical Chemistry Letters, 2021, 12, 5547-5551.	2.1	16
12	Catalytic Pathway of Nanozyme “Artificial Peroxidase” with 100-Fold Greater Bimolecular Rate Constants Compared to Those of the Enzyme. Journal of Physical Chemistry Letters, 2021, 12, 171-176.	2.1	15
13	Estimation of continuity of electroactive inorganic films based on apparent anti-Ohmic trend in their charge transfer resistance. Electrochimica Acta, 2016, 219, 588-591.	2.6	11
14	Novel Reagentless Label-Free Detection Principle for Affinity Interactions Resulted in Conductivity Increase of Conducting Polymer. Electroanalysis, 2015, 27, 2055-2062.	1.5	10
15	Flow-electrochemical synthesis of Prussian Blue based nanozyme “artificial peroxidase”™. Dalton Transactions, 2021, 50, 11385-11389.	1.6	10
16	Improved Electroactivity of Redox Probes onto Electropolymerized Azidomethyl-PEDOT: Enabling Click Chemistry for Advanced (Bio)Sensors. ACS Applied Polymer Materials, 2021, 3, 1518-1524.	2.0	10
17	Nanozymes “Artificial Peroxidase” Enzyme Oxidase Mixtures for Single-Step Fabrication of Advanced Electrochemical Biosensors. ChemElectroChem, 2021, 8, 1117-1122.	1.7	10
18	Ultramicrosensors based on transition metal hexacyanoferrates for scanning electrochemical microscopy. Beilstein Journal of Nanotechnology, 2013, 4, 649-654.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Prussian Blue based flow-through (bio)sensors in power generation mode: New horizons for electrochemical analyzers. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 284-288.	4.0	7
20	Nanozymes ~artificial peroxidase~™ in reduction and detection of organic peroxides. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115902.	1.9	5
21	Power Generation versus Conventional Potentiostatic Operation of Prussian Blue Based (Bio)Sensors. <i>Electroanalysis</i> , 2018, 30, 607-610.	1.5	4
22	Power output of Prussian Blue based (bio)sensors as a function of analyte concentration: Towards wake-up signaling systems. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113263.	1.9	4
23	Anchoring PQQ-Glucose Dehydrogenase with Electropolymerized Azines for the Most Efficient Bioelectrocatalysis. <i>Analytical Chemistry</i> , 2021, 93, 12116-12121.	3.2	4
24	Scanning electrochemical microscopy: Visualization of local electrocatalytic activity of transition metals hexacyanoferrates. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 1159-1165.	0.3	3
25	Reagentless Microsensor Based on Conducting Poly(3~aminophenylboronic Acid) for Rapid Detection of Microorganisms in Aerosol. <i>Electroanalysis</i> , 2018, 30, 602-606.	1.5	3
26	Electrochemical detection of <i>Penicillium chrysogenum</i> based on increasing conductivity of polyaminophenylboric acid. <i>Russian Journal of Electrochemistry</i> , 2017, 53, 92-96.	0.3	2