Maria A Komkova

List of Publications by Year
in descending order

26	815	759233 12	552781 26
papers	citations	h-index	g-index

27	27	27	957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Catalytically Synthesized Prussian Blue Nanoparticles Defeating Natural Enzyme Peroxidase. Journal of the American Chemical Society, 2018, 140, 11302-11307.	13.7	220
2	Superstable Advanced Hydrogen Peroxide Transducer Based on Transition Metal Hexacyanoferrates. Analytical Chemistry, 2011, 83, 2359-2363.	6.5	120
3	Transition Metal Hexacyanoferrates in Electrocatalysis of H₂O₂ Reduction: An Exclusive Property of Prussian Blue. Analytical Chemistry, 2014, 86, 4131-4134.	6.5	103
4	Prussian Blue modified boron-doped diamond interfaces for advanced H2O2 electrochemical sensors. Electrochimica Acta, 2020, 339, 135924.	5.2	54
5	â€˜Artificial peroxidaseâ€™ nanozyme â€“ enzyme based lactate biosensor. Talanta, 2020, 208, 120393.	5.5	45
6	Simultaneous monitoring of sweat lactate content and sweat secretion rate by wearable remote biosensors. Biosensors and Bioelectronics, 2022, 202, 113970.	10.1	38
7	Electrochemical and sensing properties of Prussian Blue based nanozymes â€œartificial peroxidaseâ€• Journal of Electroanalytical Chemistry, 2020, 872, 114048.	3.8	37
8	Noiseless Performance of Prussian Blue Based (Bio)sensors through Power Generation. Analytical Chemistry, 2017, 89, 6290-6294.	6.5	34
9	Reagentless Polyol Detection by Conductivity Increase in the Course of Self-Doping of Boronate-Substituted Polyaniline. Analytical Chemistry, 2014, 86, 11690-11695.	6.5	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.	6.5	16
11	Coreâ€“Shell Nanozymes â€œArtificial Peroxidaseâ€• Stability with Superior Catalytic Properties. Journal of Physical Chemistry Letters, 2021, 12, 5547-5551.	4.6	16
12	Catalytic Pathway of Nanozyme â€œArtificial Peroxidaseâ€•with 100-Fold Greater Bimolecular Rate Constants Compared to Those of the Enzyme. Journal of Physical Chemistry Letters, 2021, 12, 171-176.	4.6	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.	5.2	11
14	Novel Reagentless Labelâ€Free Detection Principle for Affinity Interactions Resulted in Conductivity Increase of Conducting Polymer. Electroanalysis, 2015, 27, 2055-2062.	2.9	10
15	Flow-electrochemical synthesis of Prussian Blue based nanozyme â€˜artificial peroxidaseâ€™. Dalton Transactions, 2021, 50, 11385-11389.	3.3	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.	4.4	10
17	Nanozymes â€œArtificial Peroxidaseâ€• Enzyme Oxidase Mixtures for Singleâ€Step Fabrication of Advanced Electrochemical Biosensors. ChemElectroChem, 2021, 8, 1117-1122.	3.4	10
18	Ultramicrosensors based on transition metal hexacyanoferrates for scanning electrochemical microscopy. Beilstein Journal of Nanotechnology, 2013, 4, 649-654.	2.8	7

#	Article	IF	Citations
19	Prussian Blue based flow-through (bio)sensors in power generation mode: New horizons for electrochemical analyzers. Sensors and Actuators B: Chemical, 2019, 292, 284-288.	7.8	7
20	Nanozymes â€˜artificial peroxidaseâ€™ in reduction and detection of organic peroxides. Journal of Electroanalytical Chemistry, 2022, 904, 115902.	3.8	5
21	Power Generation versus Conventional Potentiostatic Operation of Prussian Blue Based (Bio)Sensors. Electroanalysis, 2018, 30, 607-610.	2.9	4
22	Power output of Prussian Blue based (bio)sensors as a function of analyte concentration: Towards wake-up signaling systems. Journal of Electroanalytical Chemistry, 2019, 847, 113263.	3.8	4
23	Anchoring PQQ-Glucose Dehydrogenase with Electropolymerized Azines for the Most Efficient Bioelectrocatalysis. Analytical Chemistry, 2021, 93, 12116-12121.	6.5	4
24	Scanning electrochemical microscopy: Visualization of local electrocatalytic activity of transition metals hexacyanoferrates. Russian Journal of Electrochemistry, 2016, 52, 1159-1165.	0.9	3
25	Reagentless Microsensor Based on Conducting Poly(3â€aminophenylboronic Acid) for Rapid Detection of Microorganisms in Aerosol. Electroanalysis, 2018, 30, 602-606.	2.9	3
26	Electrochemical detection of Penicillium chrysogenum based on increasing conductivity of polyaminophenylboric acid. Russian Journal of Electrochemistry, 2017, 53, 92-96.	0.9	2