Gennady A Evtugyn

List of Publications by Year
in descending order

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124 papers	3,416 citations	147801 31 h-index	175258 52 g-index
130 all docs	130 docs citations	130 times ranked	3143 citing authors

#	Article	IF	Citations
1	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	200
2	Detection of aptamerâ€“protein interactions using QCM and electrochemical indicator methods. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 291-295.	2.2	167
3	Sensitivity and selectivity of electrochemical enzyme sensors for inhibitor determination. Talanta, 1998, 46, 465-484.	5.5	136
4	Acetylcholinesterase sensor based on screen-printed carbon electrode modified with prussian blue. Analytical and Bioanalytical Chemistry, 2005, 383, 597-604.	3.7	114
5	Amperometric biosensors based on nafion coated screen-printed electrodes for the determination of cholinesterase inhibitors. Talanta, 2000, 53, 379-389.	5.5	102
6	Acetylcholinesterase biosensor based on single-walled carbon nanotubesâ€”Co phtalocyanine for organophosphorus pesticides detection. Talanta, 2011, 85, 216-221.	5.5	97
7	Acetylcholinesterase sensors based on gold electrodes modified with dendrimer and polyaniline. Analytica Chimica Acta, 2004, 514, 79-88.	5.4	94
8	Electrochemical Aptasensor Based on Polycarboxylic Macrocycle Modified with Neutral Red for Aflatoxin B1 Detection. Electroanalysis, 2014, 26, 2100-2109.	2.9	83
9	Comparative investigation of electrochemical cholinesterase biosensors for pesticide determination. Analytica Chimica Acta, 2000, 404, 55-65.	5.4	82
10	A whole-cell amperometric herbicide biosensor based on magnetically functionalised microalgae and screen-printed electrodes. Analytical Methods, 2011, 3, 509.	2.7	72
11	Cholinesterase sensors based on screen-printed electrodes for detection of organophosphorus and carbamic pesticides. Analytical and Bioanalytical Chemistry, 2003, 377, 624-631.	3.7	65
12	Polyelectrolyte-Mediated Assembly of Multiwalled Carbon Nanotubes on Living Yeast Cells. Langmuir, 2010, 26, 2671-2679.	3.5	63
13	Polyaniline-modified cholinesterase sensor for pesticide determination. Bioelectrochemistry, 2002, 55, 75-77.	4.6	58
14	Impedimetric Aptasensor for Ochratoxin A Determination Based on Au Nanoparticles Stabilized with Hyper-Branched Polymer. Sensors, 2013, 13, 16129-16145.	3.8	56
15	Amperometric flow-through biosensor for the determination of cholinesterase inhibitors. Analytica Chimica Acta, 1999, 385, 13-21.	5.4	54
16	Acetylcholinesterase biosensor for inhibitor measurements based on glassy carbon electrode modified with carbon black and pillar[5]arene. Talanta, 2015, 144, 559-568.	5.5	52
17	Electrochemical DNA sensors and aptasensors based on electropolymerized materials and polyelectrolyte complexes. TrAC - Trends in Analytical Chemistry, 2016, 79, 168-178.	11.4	52
18	Cholinesterase sensor based on glassy carbon electrode modified with Ag nanoparticles decorated with macrocyclic ligands. Talanta, 2014, 127, 9-17.	5.5	51

#	Article	IF	Citations
19	Influence of surface-active compounds on the response and sensitivity of cholinesterase biosensors for inhibitor determination. Analyst, The, 1996, 121, 1911.	3.5	49
20	Electrochemical Aptasensor for the Determination of Ochratoxin A at the Au Electrode Modified with Ag Nanoparticles Decorated with Macrocyclic Ligand. Electroanalysis, 2013, 25, 1847-1854.	2.9	49
21	Ag selective electrode based on glassy carbon electrode covered with polyaniline and thiacalix[4]arene as neutral carrier. Talanta, 2007, 71, 1720-1727.	5.5	46
22	Polyanilineâ€“DNA based sensor for the detection of anthracycline drugs. Sensors and Actuators B: Chemical, 2015, 220, 573-582.	7.8	41
23	Electrochemical Immuno- and Aptasensors for Mycotoxin Determination. Chemosensors, 2019, 7, 10.	3.6	40
24	Potentiometric DNA Sensor Based on Electropolymerized Phenothiazines for Protein Detection. Electroanalysis, 2008, 20, 1300-1308.	2.9	39
25	Electrochemical Aptasensor Based on Poly(Neutral Red) and Carboxylated Pillar[5]arene for Sensitive Determination of Aflatoxin M1. Electroanalysis, 2018, 30, 486-496.	2.9	39
26	Label-free electrochemical aptasensor for cytochrome c detection using pillar[5]arene bearing neutral red. Sensors and Actuators B: Chemical, 2016, 225, 57-65.	7.8	38
27	ELECTROCHEMICAL BEHAVIOR OF PILLAR[5]ARENE ON GLASSY CARBON ELECTRODE AND ITS INTERACTION WITH Cu2+ AND Ag+ IONS. Electrochimica Acta, 2014, 147, 726-734.	5.2	35
28	Electrochemical DNA sensors based on electropolymerized materials. Talanta, 2012, 102, 137-155.	5.5	34
29	Electrochemical Biosensors Based on Native DNA and Nanosized Mediator for the Detection of Anthracycline Preparations. Electroanalysis, 2015, 27, 629-637.	2.9	34
30	Molecularly Imprinted Polymerized Methylene Green as a Platform for Electrochemical Sensing of Aptamerâ€“Thrombin Interactions. Electroanalysis, 2009, 21, 1272-1277.	2.9	33
31	EQCM Biosensors Based on DNA Aptamers and Antibodies for Rapid Detection of Prions. Protein and Peptide Letters, 2009, 16, 363-367.	0.9	33
32	Advances in Electrochemical Aptasensors Based on Carbon Nanomaterials. Chemosensors, 2020, 8, 96.	3.6	33
33	Amperometric immunosensor for nonylphenol determination based on peroxidase indicating reaction. Biosensors and Bioelectronics, 2006, 22, 56-62.	10.1	32
34	Aptabodies â€“ New Type of Artificial Receptors for Detection Proteins. Protein and Peptide Letters, 2008, 15, 799-805.	0.9	32
35	Dopamine Sensor Based on a Composite of Silver Nanoparticles Implemented in the Electroactive Matrix of Calixarenes. Electroanalysis, 2011, 23, 2281-2289.	2.9	30
36	Aptasensor for Thrombin Based on Carbon Nanotubesâ€Methylene Blue Composites. Electroanalysis, 2008, 20, 2310-2316.	2.9	29

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37	Simultaneous voltammetric determination of phenolic antioxidants with chemometric approaches. Electrochimica Acta, 2014, 137, 114-120.	5.2	29
38	Electrochemical DNA Sensor Based on Carbon Blackâ€"Poly(Neutral Red) Composite for Detection of Oxidative DNA Damage. Sensors, 2018, 18, 3489.	3.8	29
39	The application of cholinesterase potentiometric biosensor for preliminary screening of the toxicity of waste waters. Electroanalysis, 1997, 9, 1124-1128.	2.9	28
40	New polyaniline-based potentiometric biosensor for pesticides detection. IEEE Sensors Journal, 2003, 3, 333-340.	4.7	27
41	Polyphenothiazine Modified Electrochemical Aptasensor for Detection of Human Î±â€Thrombin. Electroanalysis, 2007, 19, 1915-1920.	2.9	27
42	Impedimetric Aptasensors Based on Carbon Nanotubes â€“ Poly(methylene blue) Composite. Electroanalysis, 2010, 22, 2187-2195.	2.9	27
43	Electrochemical DNA Sensors Based on Nanostructured Organic Dyes/DNA/Polyelectrolyte Complexes. Journal of Nanoscience and Nanotechnology, 2014, 14, 6738-6747.	0.9	27
44	Electrochemical biosensors for inhibitor determination: Selectivity and sensitivity control. Electroanalysis, 1996, 8, 817-820.	2.9	26
45	Solidâ€Contact Potentiometric Sensor Based on Polyaniline and Unsubstituted Pillar[5]Arene. Electroanalysis, 2015, 27, 440-449.	2.9	26
46	Electrochemical Sensor Based on Poly(Azure B)-DNA Composite for Doxorubicin Determination. Sensors, 2019, 19, 2085.	3.8	26
47	Selectivity of solid-contact Ag potentiometric sensors based on thiacalix[4]arene derivatives. Talanta, 2008, 76, 441-447.	5.5	25
48	Electrochemical DNA Sensors with Layered Polyanilineâ€"DNA Coating for Detection of Specific DNA Interactions. Sensors, 2019, 19, 469.	3.8	25
49	Electrochemical biosensor based on polyelectrolyte complexes for the determination of reversible inhibitors of acetylcholinesterase. Talanta, 2019, 194, 723-730.	5.5	25
50	Amperometric DNA-Peroxidase Sensor for the Detection of Pharmaceutical Preparations. Sensors, 2005, 5, 364-376.	3.8	25
51	Affinity biosensors based on disposable screen-printed electrodes modified with DNA. Analytica Chimica Acta, 2003, 479, 125-134.	5.4	24
52	Layer-by-Layer Polyelectrolyte Assembles Involving DNA as a Platform for DNA Sensors. Current Analytical Chemistry, 2011, 7, 8-34.	1.2	24
53	Impedimetric Detection of DNA Damage with the Sensor Based on Silver Nanoparticles and Neutral Red. Electroanalysis, 2015, 27, 2800-2808.	2.9	24
54	Organic Acid and DNA Sensing with Electrochemical Sensor Based on Carbon Black and Pillar[5]arene. Electroanalysis, 2016, 28, 1391-1400.	2.9	24

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55	Biosensors for the determination of environmental inhibitors of enzymes. Russian Chemical Reviews, 1999, 68, 1041-1064.	6.5	20
56	Molecular receptors and electrochemical sensors based on functionalized calixarenes. Russian Chemical Reviews, 2011, 79, 1071-1097.	6.5	20
57	Bi-enzyme sensor based on thick-film carbon electrode modified with electropolymerized tyramine. Bioelectrochemistry, 2004, 63, 281-284.	4.6	19
58	Biosensors: Essentials. Lecture Notes in Quantum Chemistry II, 2014, , .	0.3	19
59	Advances in lipid film based biosensors. TrAC - Trends in Analytical Chemistry, 2016, 79, 210-221.	11.4	19
60	Electrochemical Aptasensors Based on Hybrid Metal-Organic Frameworks. Sensors, 2020, 20, 6963.	3.8	19
61	Amperometric Immunoassay of Azinphosâ€Methyl in Water and Honeybees Based on Indirect Competitive ELISA. Analytical Letters, 2008, 41, 392-405.	1.8	18
62	Electrochemical approach for acute myocardial infarction diagnosis based on direct antibodies-free analysis of human blood plasma. Biosensors and Bioelectronics, 2012, 33, 158-164.	10.1	18
63	Electrochemistry of new derivatives of phenothiazine: Electrode kinetics and electropolymerization conditions. Electrochimica Acta, 2021, 375, 137985.	5.2	18
64	Discrimination of apple juice and herbal liqueur brands with solid-state electrodes covered with polyaniline and thiacalixarenes. Talanta, 2010, 82, 613-619.	5.5	17
65	Co-polymers of oligolactic acid and tetrasubstituted thiacalix[4]arenes as a new material for electrochemical sensor development. Sensors and Actuators B: Chemical, 2017, 246, 136-145.	7.8	17
66	Impedimetric Determination of Kanamycin in Milk with Aptasensor Based on Carbon Black-Oligolactide Composite. Sensors, 2020, 20, 4738.	3.8	17
67	Label-free aptasensor for thrombin determination based on the nanostructured phenazine mediator. Talanta, 2012, 102, 156-163.	5.5	15
68	Electrochemical Aptasensor Based on a Macrocyclic Ligand Bearing Neutral Red. Electroanalysis, 2012, 24, 91-100.	2.9	15
69	Cholinesterase Biosensors Based on Screenâ€Printed Electrodes Modified with Coâ€Phtalocyanine and Polycarboxylated Thiacalixarenes. Electroanalysis, 2012, 24, 554-562.	2.9	15
70	Voltammetric Detection of Oxidative DNA Damage Based on Interactions between Polymeric Dyes and DNA. Electroanalysis, 2016, 28, 2956-2964.	2.9	15
71	Glassy Carbon Electrode Modified with Silver Nanodendrites Implemented in Polylactideâ€Thiacalix[4]arene Copolymer for the Electrochemical Determination of Tryptophan. Electroanalysis, 2018, 30, 641-649.	2.9	15
72	Electrochemical Aptasensor with Layerâ€byâ€layer Deposited Polyaniline for Aflatoxin M1 Voltammetric Determination. Electroanalysis, 2019, 31, 1913-1924.	2.9	15

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73	Electrochemical DNA Sensor Based on the Copolymer of Proflavine and Azure B for Doxorubicin Determination. Nanomaterials, 2020, 10, 924.	4.1	15
74	Impedimetric DNA Sensor Based on Poly(proflavine) for Determination of Anthracycline Drugs. Electroanalysis, 2020, 32, 827-834.	2.9	15
75	Potentiometric Sensors Based on Polyaniline and Thiacalixarenes for Green Tea Discrimination. Electroanalysis, 2011, 23, 1081-1088.	2.9	14
76	Voltammetric Sensor with Replaceable Polyanilineâ€DNA Layer for Doxorubicin Determination. Electroanalysis, 2018, 30, 2284-2292.	2.9	14
77	Electrochemical Aptasensors for Antibiotics Detection: Recent Achievements and Applications for Monitoring Food Safety. Sensors, 2022, 22, 3684.	3.8	14
78	Solid-Contact Potentiometric Sensors and Multisensors Based on Polyaniline and Thiacalixarene Receptors for the Analysis of Some Beverages and Alcoholic Drinks. Frontiers in Chemistry, 2018, 6, 134.	3.6	13
79	DNA-Polylactide Modified Biosensor for Electrochemical Determination of the DNA-Drugs and Aptamer-Aflatoxin M1 Interactions. Sensors, 2019, 19, 4962.	3.8	13
80	Electrochemical behavior of the monomeric and polymeric forms of N-phenyl-3-(phenylimino)-3H-phenothiazin-7-amine. Electrochimica Acta, 2020, 345, 136195.	5.2	13
81	Electrochemical DNA Sensor Based on Carbon Blackâ€"Poly(Methylene Blue)â€"Poly(Neutral Red) Composite. Biosensors, 2022, 12, 329.	4.7	13
82	SPR sensor based on polyelectrolyte complexes with DNA inclusion. Sensors and Actuators B: Chemical, 2019, 281, 574-581.	7.8	12
83	Electrochemical sensors and biosensors on the pillar[5]arene platform. Russian Chemical Bulletin, 2020, 69, 859-874.	1.5	11
84	Recent Achievements in Electrochemical and Surface Plasmon Resonance Aptasensors for Mycotoxins Detection. Chemosensors, 2021, 9, 180.	3.6	11
85	Electrochemical Determination of Malathion on an Acetylcholinesterase-Modified Glassy Carbon Electrode. Analytical Letters, 2018, 51, 1911-1926.	1.8	10
86	Affinity Biosensors for Detection of Mycotoxins in Food. Advances in Food and Nutrition Research, 2018, 85, 263-310.	3.0	10
87	Metallo-Supramolecular Coordination Polymers Based on Amidopyridine Derivatives of Pillar[5]arene and Cu(II) and Pd(II) Cations: Synthesis and Recognition of Nitroaromatic Compounds. Langmuir, 2021, 37, 2942-2953.	3.5	10
88	Solid Contact Potentiometric Sensors Based on a New Class of Ionic Liquids on Thiacalixarene Platform. Frontiers in Chemistry, 2018, 6, 594.	3.6	9
89	Modification of Oligo- and Polylactides With Macrocyclic Fragments: Synthesis and Properties. Frontiers in Chemistry, 2019, 7, 554.	3.6	9
90	Phenyliminophenothiazine based self-organization of polyaniline nanowires and application as redox probe in electrochemical sensors. Scientific Reports, 2019, 9, 417.	3.3	9

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91	Electrochemical Acetylcholinesterase Biosensor Based on Polylactideâ€“Nanosilver Composite for the Determination of Anti-dementia Drugs. Analytical Letters, 2019, 52, 1558-1578.	1.8	9
92	Discrimination of Tea by the Electrochemical Determination of its Antioxidant Properties by a Polyaniline â€“ DNA â€“ Polyphenazine Dye Modified Glassy Carbon Electrode. Analytical Letters, 2019, 52, 2562-2582.	1.8	9
93	Electrochemical Sensing of Idarubicinâ€”DNA Interaction Using Electropolymerized Azure B and Methylene Blue Mediation. Chemosensors, 2022, 10, 33.	3.6	9
94	Stable complexes of tertiary ammonia derivative of phenothiazine with tertramethylsulfonated resorcin[4]arenes obtained under substoichiometric conditions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 59, 143-154.	1.6	8
95	Electrochemical DNA sensors based on spatially distributed redox mediators: challenges and promises. Pure and Applied Chemistry, 2017, 89, 1471-1490.	1.9	8
96	Acetylcholinesterase Sensor Based on Polyelectrolyte Complexes with DNA Inclusion for the Determination of Reversible Inhibitors. Electroanalysis, 2020, 32, 308-316.	2.9	8
97	Electrochemical DNA Sensor Based on Poly(Azure A) Obtained from the Buffer Saturated with Chloroform. Sensors, 2021, 21, 2949.	3.8	8
98	Electrochemical DNA Sensor Based on Acridine Yellow Adsorbed on Glassy Carbon Electrode. Sensors, 2021, 21, 7763.	3.8	8
99	Electrochemical Sensing of Interactions between DNA and Charged Macrocycles. Chemosensors, 2021, 9, 347.	3.6	8
100	Pillar[6]arene: Electrochemistry and application in electrochemical (bio)sensors. Journal of Electroanalytical Chemistry, 2022, 913, 116281.	3.8	8
101	Electrochemical Aptasensor Based on ZnO Modified Gold Electrode. Electroanalysis, 2013, 25, 1855-1863.	2.9	7
102	An electrochemical aptasensor for cytochrome C, based on pillar[5]arene modified with Neutral Red. Journal of Analytical Chemistry, 2017, 72, 375-381.	0.9	7
103	Aptamer-based biosensors for mycotoxin detection. , 2020, , 35-70.		7
104	1,3-Disubstituted p-tert-Butylcalix[4]arenes as Cholinesterase Inhibitors. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2001, 39, 339-346.	1.6	6
105	Flow-Through Electrochemical Biosensor with a Replaceable Enzyme Reactor and Screen-Printed Electrode for the Determination of Uric Acid and Tyrosine. Analytical Letters, 2022, 55, 1281-1295.	1.8	6
106	Biosensors for detection mycotoxins and pathogenic bacteria in food. , 2017, , 35-92.		5
107	Electrochemical Properties of Multilayered Coatings Implementing Thiacalix[4]arenes with Oligolactic Fragments and DNA. Electroanalysis, 2020, 32, 715-723.	2.9	5
108	Electrochemical Biosensor Based on Polyelectrolyte Complexes with Dendrimer for the Determination of Reversible Inhibitors of Acetylcholinesterase. Analytical Letters, 2021, 54, 1709-1728.	1.8	4

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109	Acetylcholinesterase Biosensor Based on Reduced Graphene Oxide â€“ Carbon Black Composite for Determination of Reversible Inhibitors. Electroanalysis, 2022, 34, 645-654.	2.9	4
110	Biochemical Components Used in Biosensor Assemblies. Lecture Notes in Quantum Chemistry II, 2014, , 21-97.	0.3	3
111	Biosensors for Detection of Anticholinesterase Agents. Advanced Sciences and Technologies for Security Applications, 2016, , 349-384.	0.5	3
112	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1999, 35, 361-367.	1.6	2
113	Biosensors for Pesticides and Foodborne Pathogens. Series in Sensors, 2013, , 605-680.	0.0	2
114	Biosensor Signal Transducers. Lecture Notes in Quantum Chemistry II, 2014, , 99-205.	0.3	2
115	Biosensor to Ensure Food Security and Environmental Control. Comprehensive Analytical Chemistry, 2016, 74, 121-152.	1.3	2
116	Biomembrane mimetic electrochemical sensors. Current Opinion in Electrochemistry, 2021, 28, 100722.	4.8	2
117	Polyelectrolyte Polyethylenimineâ€“DNA Complexes in the Composition of Voltammetric Sensors for Detecting DNA Damage. Journal of Analytical Chemistry, 2022, 77, 185-194.	0.9	2
118	Nanomaterials in the Cholinesterase Biosensors for Inhibitor Determination. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 227-244.	0.5	1
119	Electroanalytical Bioplatforms Based on Carbon Nanostructures as New Tools for Diagnosis. , 2018, , 269-306.		1
120	Introduction and Overview of History. Lecture Notes in Quantum Chemistry II, 2014, , 1-20.	0.3	1
121	How Does It Work? Case Studies. Lecture Notes in Quantum Chemistry II, 2014, , 207-242.	0.3	0
122	8. Nanomaterials in the Assembly of Electrochemical DNA Sensors. , 2018, , 253-300.		0
123	Biosensor Prospects: Quo Vadis? (Conclusion). Lecture Notes in Quantum Chemistry II, 2014, , 243-250.	0.3	0
124	Sensitivity and Selectivity of Electrochemical Biosensors for Inhibitor Determination. , 1998, , 239-253.		0