

# Ivan Yu Sakharov

## List of Publications by Year in descending order

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111  
papers

2,512  
citations

185998

28  
h-index

233125

45  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2463  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laccase-catalyzed synthesis of conducting polyaniline. <i>Enzyme and Microbial Technology</i> , 2003, 33, 556-564.	1.6	135
2	Variations of peroxidase activity in cocoa ( <i>Theobroma cacao</i> L.) beans during their ripening, fermentation and drying. <i>Food Chemistry</i> , 1999, 65, 51-54.	4.2	134
3	Biosensors based on novel peroxidases with improved properties in direct and mediated electron transfer. <i>Biosensors and Bioelectronics</i> , 2000, 15, 491-497.	5.3	130
4	Comparison of Enzyme-Linked Immunosorbent Assays with Chemiluminescent and Colorimetric Detection for the Determination of Ochratoxin A in Food. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 809-813.	2.4	90
5	Purification and substrate specificity of peroxidase from sweet potato tubers. <i>Plant Science</i> , 2002, 163, 1011-1019.	1.7	76
6	Immunohistochemical study of angiotensin-converting enzyme in human tissues using monoclonal antibodies. <i>Histochemistry</i> , 1987, 87, 487-490.	1.9	74
7	Peroxidase from leaves of royal palm tree <i>Roystonea regia</i> : purification and some properties. <i>Plant Science</i> , 2001, 161, 853-860.	1.7	70
8	Development of ultrasensitive direct chemiluminescent enzyme immunoassay for determination of aflatoxin M1 in milk. <i>Food Chemistry</i> , 2014, 158, 310-314.	4.2	63
9	Synthesis of polyelectrolyte complexes of polyaniline and sulfonated polystyrene by palm tree peroxidase. <i>Enzyme and Microbial Technology</i> , 2003, 33, 661-667.	1.6	62
10	Synthesis of Conducting Polyelectrolyte Complexes of Polyaniline and Poly(2-acrylamido-3-methyl-1-propanesulfonic acid) Catalyzed by pH-Stable Palm Tree Peroxidase. <i>Biomacromolecules</i> , 2005, 6, 1360-1366.	2.6	57
11	Biosensors based on novel plant peroxidases: a comparative study. <i>Electrochimica Acta</i> , 2000, 46, 255-264.	2.6	55
12	Purification and stability of peroxidase of African oil palm <i>Elaeis guineensis</i> . <i>Bioseparation</i> , 2000, 9, 125-132.	0.7	55
13	Development of ultrasensitive direct chemiluminescent enzyme immunoassay for determination of aflatoxin B1 in food products. <i>Talanta</i> , 2013, 107, 25-29.	2.9	55
14	Bienzyme biosensors for glucose, ethanol and putrescine built on oxidase and sweet potato peroxidase. <i>Biosensors and Bioelectronics</i> , 2003, 18, 705-714.	5.3	52
15	Laccase-catalyzed synthesis of optically active polyaniline. <i>Synthetic Metals</i> , 2007, 157, 684-689.	2.1	48
16	A WS <sub>2</sub> nanosheet based chemiluminescence resonance energy transfer platform for sensing biomolecules. <i>Chemical Communications</i> , 2015, 51, 11092-11095.	2.2	48
17	Micellar Peroxidase-Catalyzed Synthesis of Chiral Polyaniline. <i>Biomacromolecules</i> , 2007, 8, 2549-2555.	2.6	42
18	Interaction of mAb to angiotensin-converting enzyme (ACE) with antigen in vitro and in vivo: antibody targeting to the lung induces ACE antigenic modulation. <i>International Immunology</i> , 1994, 6, 1153-1160.	1.8	40

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19	Soybean Peroxidase-Catalyzed Oxidation of Luminol by Hydrogen Peroxide. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 5784-5788.	2.4	38
20	Two-state irreversible thermal denaturation of anionic peanut ( <i>Arachis hypogaea</i> L.) peroxidase. <i>Thermochimica Acta</i> , 2004, 417, 67-73.	1.2	34
21	Fiber-Optic Immunosensor for Detection of Crimean-Congo Hemorrhagic Fever IgG Antibodies in Patients. <i>Analytical Chemistry</i> , 2015, 87, 8394-8398.	3.2	34
22	Modeling and characterization of polyelectrolyte complex of polyaniline and sulfonated polystyrene produced by palm tree peroxidase. <i>Synthetic Metals</i> , 2004, 142, 127-135.	2.1	33
23	3-(10-Phenothiazinyl)propionic acid is a potent primary enhancer of peroxidase-induced chemiluminescence and its application in sensitive ELISA of methylglyoxal-modified low density lipoprotein. <i>Talanta</i> , 2013, 115, 414-417.	2.9	33
24	Use of Soybean Peroxidase in Chemiluminescent Enzyme-Linked Immunosorbent Assay. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1584-1587.	2.4	32
25	3-(10-Phenothiazinyl)propane-1-sulfonate is a potent enhancer of soybean peroxidase-induced chemiluminescence. <i>Analytical Biochemistry</i> , 2009, 392, 54-58.	1.1	32
26	Cyclometalated ruthenium(II) complexes as efficient redox mediators in peroxidase catalysis. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 683-688.	1.1	31
27	Quantification of 2,4-dichlorophenoxyacetic acid in oranges and mandarins by chemiluminescent ELISA. <i>Food Chemistry</i> , 2013, 141, 865-868.	4.2	31
28	Thermal stability of peroxidase from the african oil palm tree <i>Elaeis guineensis</i> . <i>FEBS Journal</i> , 2002, 269, 2584-2590.	0.2	30
29	Novel mitochondria-targeted antioxidants, $\alpha$ -skulachev-Ion $\alpha$ -derivatives, accelerate dermal wound healing in animals. <i>Biochemistry (Moscow)</i> , 2010, 75, 274-280.	0.7	29
30	Absolute Quantification of MicroRNAs in a Single Cell with Chemiluminescence Detection Based on Rolling Circle Amplification on a Microchip Platform. <i>Analytical Chemistry</i> , 2021, 93, 9218-9225.	3.2	29
31	Advantages of Soybean Peroxidase over Horseradish Peroxidase as the Enzyme Label in Chemiluminescent Enzyme-Linked Immunosorbent Assay of Sulfamethoxy-pyridazine. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3284-3289.	2.4	28
32	Optimization of horseradish peroxidase-catalyzed enhanced chemiluminescence reaction by full factorial design. <i>Talanta</i> , 2012, 94, 223-226.	2.9	28
33	Determination of okadaic acid in shellfish by using a novel chemiluminescent enzyme-linked immunosorbent assay method. <i>Talanta</i> , 2013, 116, 343-346.	2.9	28
34	Extremely high stability of African oil palm tree peroxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002, 1598, 108-114.	1.1	27
35	Substrate specificity of african oil palm tree peroxidase. <i>Biochemistry (Moscow)</i> , 2002, 67, 1043-1047.	0.7	26
36	Fell $\alpha$ -TAML activator: A potent peroxidase mimic for chemiluminescent determination of hydrogen peroxide. <i>Talanta</i> , 2014, 125, 361-365.	2.9	26

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37	Improving the Sensitivity of the miRNA Assay Coupled with the Mismatched Catalytic Hairpin Assembly Reaction by Optimization of Hairpin Annealing Conditions. <i>Analytical Chemistry</i> , 2021, 93, 6824-6830.	3.2	25
38	Bi-Enzyme Alcohol Biosensors Based on Genetically Engineered Alcohol Oxidase and Different Peroxidases. <i>Mikrochimica Acta</i> , 2005, 152, 21-27.	2.5	24
39	Affinity chromatography and some properties of the angiotensin-converting enzyme from human heart. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 923, 143-149.	1.1	23
40	Expression and Refolding of Tobacco Anionic Peroxidase from <i>E. coli</i> Inclusion Bodies. <i>Biochemistry (Moscow)</i> , 2003, 68, 1189-1194.	0.7	22
41	Palm Tree Peroxidases. <i>Biochemistry (Moscow)</i> , 2004, 69, 823-829.	0.7	22
42	Palm tree peroxidase-based biosensor with unique characteristics for hydrogen peroxide monitoring. <i>Biosensors and Bioelectronics</i> , 2005, 21, 742-748.	5.3	22
43	Chemical modification and composition of tetrameric isozyme K of alkaline phosphatase from harp seal intestinal mucosa. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1989, 92, 119-122.	0.2	20
44	Development of ultra-sensitive soybean peroxidase-based CL-ELISA for the determination of human thyroglobulin. <i>Journal of Immunological Methods</i> , 2010, 362, 127-130.	0.6	20
45	Long-term chemiluminescent signal is produced in the course of luminol peroxidation catalyzed by peroxidase isolated from leaves of african oil palm tree. , 2001, 66, 515-519.		19
46	Purification and Characterization of Windmill Palm Tree ( <i>Trachycarpus fortunei</i> ) Peroxidase. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 9888-9894.	2.4	19
47	Mechanism of action of 4-dialkylaminopyridines as secondary enhancers in enhanced chemiluminescence reaction. <i>Analytical Biochemistry</i> , 2013, 434, 12-14.	1.1	19
48	Site-Specific N-Glycosylation Characterization of Windmill Palm Tree Peroxidase Using Novel Tools for Analysis of Plant Glycopeptide Mass Spectrometry Data. <i>Journal of Proteome Research</i> , 2016, 15, 2026-2038.	1.8	16
49	Microplate chemiluminescent assay for HBV DNA detection using 3-(10 <sup>2</sup> -phenothiazinyl)propionic acid/N-morpholinopyridine pair as enhancer of HRP-catalyzed chemiluminescence. <i>Analytical Biochemistry</i> , 2018, 543, 33-36.	1.1	16
50	Luminol-hydrogen peroxide chemiluminescence produced by sweet potato peroxidase. <i>Luminescence</i> , 2007, 22, 92-96.	1.5	15
51	Improved method for chemiluminescent determination of peroxidase-mimicking DNAzyme activity. <i>Analytical Biochemistry</i> , 2014, 466, 19-23.	1.1	15
52	Structure-activity relationship study for design of highly active covalent peroxidase-mimicking DNAzyme. <i>RSC Advances</i> , 2015, 5, 51672-51677.	1.7	15
53	One-pot microplate-based chemiluminescent assay coupled with catalytic hairpin assembly amplification for DNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5105-5111.	1.9	15
54	Stabilization of proteins by modification with water-soluble polysaccharides. <i>Enzyme and Microbial Technology</i> , 1984, 6, 27-30.	1.6	14

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55	Monoclonal antibodies to angiotensin-converting enzyme: A powerful tool for lung and vessel studies. <i>Journal of Molecular and Cellular Cardiology</i> , 1989, 21, 165-170.	0.9	14
56	Bioelectrocatalysis of Plant Peroxidases Immobilized on Graphite in Aqueous and Mixed Solvent Media. <i>Electroanalysis</i> , 2005, 17, 460-468.	1.5	14
57	Development of a chemiluminescent enzyme immunoassay for the determination of dexamethasone in milk. <i>Analytical Methods</i> , 2012, 4, 2550.	1.3	14
58	Highly sensitive microfluidic competitive enzyme immunoassay based on chemiluminescence resonance energy transfer for the detection of neuron-specific enolase. <i>Electrophoresis</i> , 2014, 35, 2022-2028.	1.3	14
59	An enhanced chemiluminescence resonance energy transfer system based on target recycling G-quadruplexes/hemin DNAzyme catalysis and its application in ultrasensitive detection of DNA. <i>Talanta</i> , 2015, 138, 59-63.	2.9	14
60	Atriopeptin 2 is hydrolysed by cardiac but not pulmonary isozyme of angiotensin-converting enzyme. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 109-113.	1.0	13
61	Luminol oxidation catalyzed by royal palm leaf peroxidase. <i>Applied Biochemistry and Microbiology</i> , 2007, 43, 25-28.	0.3	13
62	Chemiluminescent microplate-based assay of DNA based on isothermal circular strand-displacement polymerization reaction (ICSDPR). <i>Talanta</i> , 2020, 215, 120895.	2.9	12
63	Isolation of human liver angiotensin-converting enzyme by chromatofocusing. <i>Analytical Biochemistry</i> , 1987, 166, 14-17.	1.1	10
64	Luminol oxidation by hydrogen peroxide with chemiluminescent signal formation catalyzed by peroxygenase from the fungus <i>Agrocybe aegerita</i> V.Brigh. <i>Applied Biochemistry and Microbiology</i> , 2010, 46, 65-68.	0.3	10
65	Ternary covalent conjugate (antibody-gold nanoparticle-peroxidase) for signal enhancement in enzyme immunoassay. <i>RSC Advances</i> , 2016, 6, 48827-48833.	1.7	10
66	Electrochemistry and electrocatalysis of covalent hemin-G4 complexes on gold. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 174-179.	1.9	10
67	Potent debriding ability of collagenolytic protease isolated from the hepatopancreas of the king crab <i>Paralithodes camtschatica</i> . <i>Archives of Dermatological Research</i> , 1993, 285, 32-35.	1.1	9
68	Enzymatic synthesis of a conducting complex of polyaniline and poly(2-acrylamido-2-methyl-1-propanesulfonic acid) using palm tree peroxidase and its properties. <i>Applied Biochemistry and Microbiology</i> , 2005, 41, 247-250.	0.3	9
69	Amino Acid Sequence of Anionic Peroxidase from the Windmill Palm Tree <i>Trachycarpus fortunei</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11941-11948.	2.4	9
70	Enhanced chemiluminescence: A sensitive analytical system for detection of sweet potato peroxidase. <i>Biotechnology Journal</i> , 2010, 5, 886-890.	1.8	8
71	Homogeneous Chemiluminescent Determination of Mercury(II) Using a Peroxidase-Mimicking DNAzyme Assay. <i>Analytical Letters</i> , 2018, 51, 1280-1290.	1.0	8
72	Chemiluminescent and Colorimetric Aptamer-Based Assays of Human $\alpha$ -Thrombin. <i>Analytical Letters</i> , 2020, 53, 140-151.	1.0	8

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73	Purification and characterization of two serine collagenolytic proteases from crab <i>Paralithodes camtschatica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1994, 108, 561-568.	0.2	7
74	Substrate specificity of collagenolytic proteases from the king crab <i>Paralithodes camtschatica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1994, 107, 411-417.	0.2	7
75	Effect of irradiation on vitamin status and spermatogenesis in rats. <i>Bulletin of Experimental Biology and Medicine</i> , 1997, 123, 456-458.	0.3	7
76	Purification and Some Properties of Two Carboxypeptidases from the Hepatopancreas of the Crab <i>Paralithodes camtschatica</i> . <i>Marine Biotechnology</i> , 2000, 2, 259-266.	1.1	7
77	Chemiluminescent assay of phenol in wastewater using HRP-catalysed luminol oxidation with and without enhancers. <i>Analytical Methods</i> , 2014, 6, 8654-8659.	1.3	7
78	Isothermal chemiluminescent assay based on circular strand-displacement polymerization reaction amplification for cel-miRNA-39-3p determination in cell extracts. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 987-992.	3.6	7
79	An ultrasensitive multivariate signal amplification strategy based on microchip platform tailored for simultaneous quantification of multiple microRNAs in single cell. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114053.	5.3	7
80	Stability of serine collagenolytic protease a from hepatopancreas of crab <i>Paralithodes camtschatica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1990, 97, 407-410.	0.2	6
81	Non-enzymatic interaction of reaction products and substrates in peroxidase catalysis. <i>Biochemistry (Moscow)</i> , 2003, 68, 1006-1011.	0.7	6
82	Oxidase-Peroxidase Method of Ethanol Assay in Fermented Musts and Wine Products. <i>Applied Biochemistry and Microbiology</i> , 2005, 41, 604-609.	0.3	6
83	The use of collagenase from the hepatopancreas of the Kamchatkan crab <i>Paralithodes camtschatica</i> to isolate and culture endothelial cells from the human umbilical vein. <i>Bulletin of Experimental Biology and Medicine</i> , 1987, 104, 1324-1326.	0.3	5
84	Purification and characterization of intestinal alkaline phosphatase from harp seal. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1988, 90, 709-714.	0.2	5
85	Postgenomic chemistry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2005, 77, 1641-1654.	0.9	5
86	Microplate Chemiluminescent Assay for DNA Detection Using Apoperoxidase-Oligonucleotide as Capture Conjugate and HRP-Streptavidin Signaling System. <i>Sensors</i> , 2018, 18, 1289.	2.1	5
87	One-step label-free chemiluminescent assay for determination of exonuclease III activity towards hairpin oligonucleotides. <i>Enzyme and Microbial Technology</i> , 2019, 131, 109419.	1.6	5
88	Chemiluminescent Determination of MicroRNA-141 Using Target-Dependent Activation of the Peroxidase-Mimicking DNAzyme. <i>Analytical Letters</i> , 2019, 52, 813-824.	1.0	5
89	Use of soybean peroxidase for the enzyme immunoassay of sulfamethoxypyridazine in milk. <i>Applied Biochemistry and Microbiology</i> , 2007, 43, 550-555.	0.3	4
90	Homogeneous chemiluminescent DNA assay based on allosteric activation of peroxidase-mimicking DNAzyme. <i>RSC Advances</i> , 2015, 5, 82865-82868.	1.7	4

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91	Suicide inactivation of covalent peroxidase-mimicking DNAzyme with hydrogen peroxide and its protection by a reductant substrate. <i>Talanta</i> , 2016, 155, 212-215.	2.9	4
92	Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex. <i>Analytica Chimica Acta</i> , 1996, 319, 265-269.	2.6	3
93	Enzyme immunoassay for the determination of hexestrol in meat. <i>Applied Biochemistry and Microbiology</i> , 2011, 47, 77-81.	0.3	3
94	High chemiluminescence activity of an Fe <sup>III</sup> -TAML activator in aqueous organic media and its use in the determination of organic peroxides. <i>Analyst</i> , 2015, 140, 2964-2968.	1.7	3
95	Modern Methods for Assessment of microRNAs. <i>Biochemistry (Moscow)</i> , 2022, 87, 425-442.	0.7	3
96	Purification and some properties of elastase from hepatopancreas of king crab <i>Paralithodes camtschatica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1993, 106, 681-684.	0.2	2
97	Immunohistochemical study of purulent wounds treated with King crab collagenase. <i>Experimental Dermatology</i> , 1994, 3, 51-55.	1.4	2
98	Comparative study of magnetic beads and microplates as supports in heterogeneous amplified assay of miRNA-141 by using mismatched catalytic hairpin assembly reaction. <i>Talanta</i> , 2022, 247, 123535.	2.9	2
99	Monoclonal antibodies to angiotensin converting enzyme from human lung. <i>Bulletin of Experimental Biology and Medicine</i> , 1987, 103, 794-796.	0.3	1
100	Monoclonal antibody to alkaline phosphatase from the intestinal mucosa of the harp seal, <i>Phoca groenlandica</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 101, 677-682.	0.2	1
101	Toxicological study of king crab collagenase. <i>Bulletin of Experimental Biology and Medicine</i> , 1995, 119, 377-380.	0.3	1
102	Effect of single total irradiation on the reproductive system and vitamin content in rat progeny. <i>Bulletin of Experimental Biology and Medicine</i> , 1998, 126, 1221-1223.	0.3	1
103	Purification and study of the physicochemical properties of angiotensin-converting enzyme from human liver. <i>Bulletin of Experimental Biology and Medicine</i> , 1987, 103, 342-344.	0.3	0
104	Effect of anticoagulants on human plasma trypsin-like proteinase activity. <i>Bulletin of Experimental Biology and Medicine</i> , 1989, 107, 186-188.	0.3	0
105	Purification of alkaline phosphatase from the intestinal content of common seal ( <i>Phoca vitulina</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Comparative Biochemistry</i> , 1991, 99, 509-511.	0.2	0
106	Experimental morphologic study of the action of collagenase of the crab <i>Paralithodes camtschatica</i> on wound healing. <i>Bulletin of Experimental Biology and Medicine</i> , 1992, 114, 1898-1901.	0.3	0
107	Immunohistochemical study of purulent wounds in the rat after application of collagenase isolated from the king crab <i>Paralithodes camtschatica</i> . <i>Bulletin of Experimental Biology and Medicine</i> , 1993, 116, 1098-1102.	0.3	0
108	Physiological effects of active immunization with triiodothyronine in rats. <i>Bulletin of Experimental Biology and Medicine</i> , 1998, 126, 1083-1087.	0.3	0

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109	Vitamin status and spermatogenesis in rats during late stages after irradiation in various doses. Bulletin of Experimental Biology and Medicine, 1999, 128, 694-696.	0.3	0
110	Colorimetric determination of peroxidase activity in the presence of a polyanion. Journal of Analytical Chemistry, 2008, 63, 30-33.	0.4	0
111	Chemiluminescent Detection of HIV DNA Based on Allosteric Activation of Peroxidase-Mimicking DNAzyme. Moscow University Chemistry Bulletin, 2018, 73, 7-12.	0.2	0