

Khalil Abnous

List of Publications by Year in descending order

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Version: 2024-02-01

375
papers

15,783
citations

13827

67
h-index

40881

93
g-index

387
all docs

387
docs citations

387
times ranked

15426
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme responsive drug delivery systems in cancer treatment. <i>Journal of Controlled Release</i> , 2019, 308, 172-189.	4.8	232
2	Neuroprotective Effect of Crocin on Acrylamide-induced Cytotoxicity in PC12 cells. <i>Cellular and Molecular Neurobiology</i> , 2012, 32, 227-235.	1.7	195
3	A novel colorimetric triple-helix molecular switch aptasensor for ultrasensitive detection of tetracycline. <i>Biosensors and Bioelectronics</i> , 2015, 70, 181-187.	5.3	193
4	Therapeutic applications of AS1411 aptamer, an update review. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1420-1431.	3.6	174
5	SELEX methods on the road to protein targeting with nucleic acid aptamers. <i>Biochimie</i> , 2018, 154, 132-155.	1.3	165
6	Colorimetric and fluorescence quenching aptasensors for detection of streptomycin in blood serum and milk based on double-stranded DNA and gold nanoparticles. <i>Food Chemistry</i> , 2016, 190, 115-121.	4.2	162
7	Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. <i>Biosensors and Bioelectronics</i> , 2018, 110, 23-37.	5.3	147
8	Reversible Targeting and controlled release delivery of daunorubicin to cancer cells by aptamer-wrapped carbon nanotubes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 200-206.	2.0	143
9	Lateral flow based immunobiosensors for detection of food contaminants. <i>Biosensors and Bioelectronics</i> , 2016, 86, 235-246.	5.3	141
10	Protective effect of crocin on diazinon induced cardiotoxicity in rats in subchronic exposure. <i>Chemico-Biological Interactions</i> , 2013, 203, 547-555.	1.7	134
11	A selective and sensitive fluorescent aptasensor for detection of kanamycin based on catalytic recycling activity of exonuclease III and gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1-7.	4.0	134
12	A novel electrochemical aptasensor based on arch-shape structure of aptamer-complimentary strand conjugate and exonuclease I for sensitive detection of streptomycin. <i>Biosensors and Bioelectronics</i> , 2016, 75, 123-128.	5.3	134
13	Aptasensors for quantitative detection of kanamycin. <i>Biosensors and Bioelectronics</i> , 2016, 82, 162-172.	5.3	128
14	Epirubicin loaded super paramagnetic iron oxide nanoparticle-aptamer bioconjugate for combined colon cancer therapy and imaging in vivo. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 50, 191-197.	1.9	127
15	Antidepressant effects of crocin and its effects on transcript and protein levels of CREB, BDNF, and VGF in rat hippocampus. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2014, 22, 16.	0.9	126
16	Aptamer based biosensors for detection of <i>Staphylococcus aureus</i> . <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 619-635.	4.0	125
17	Silica based hybrid materials for drug delivery and bioimaging. <i>Journal of Controlled Release</i> , 2018, 277, 57-76.	4.8	125
18	Targeted doxorubicin-loaded mesenchymal stem cells-derived exosomes as a versatile platform for fighting against colorectal cancer. <i>Life Sciences</i> , 2020, 261, 118369.	2.0	125

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19	Folate receptor-targeted multimodal polymersomes for delivery of quantum dots and doxorubicin to breast adenocarcinoma: In vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2016, 500, 162-178.	2.6	122
20	Epithelial cell adhesion molecule aptamer conjugated PEG-PLGA nanopolymersomes for targeted delivery of doxorubicin to human breast adenocarcinoma cell line in vitro. <i>International Journal of Pharmaceutics</i> , 2015, 479, 241-251.	2.6	120
21	Chitosan-modified PLGA nanoparticles tagged with 5TR1 aptamer for in vivo tumor-targeted drug delivery. <i>Cancer Letters</i> , 2017, 400, 1-8.	3.2	120
22	In vitro and in vivo evaluation of therapy targeting epithelial-cell adhesion-molecule aptamers for non-small cell lung cancer. <i>Journal of Controlled Release</i> , 2015, 209, 88-100.	4.8	119
23	A novel M-shape electrochemical aptasensor for ultrasensitive detection of tetracyclines. <i>Biosensors and Bioelectronics</i> , 2016, 85, 509-514.	5.3	119
24	Smart AS1411-aptamer conjugated pegylated PAMAM dendrimer for the superior delivery of camptothecin to colon adenocarcinoma in vitro and in vivo. <i>International Journal of Pharmaceutics</i> , 2017, 519, 352-364.	2.6	118
25	Fabrication of aptamer decorated dextran coated nano-graphene oxide for targeted drug delivery. <i>Carbohydrate Polymers</i> , 2017, 155, 218-229.	5.1	116
26	Double targeting and aptamer-assisted controlled release delivery of epirubicin to cancer cells by aptamers-based dendrimer in vitro and in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 102, 152-158.	2.0	114
27	Electrochemical and optical aptamer-based sensors for detection of tetracyclines. <i>Trends in Food Science and Technology</i> , 2018, 73, 45-57.	7.8	113
28	Gold nanoparticle should understand protein corona for being a clinical nanomaterial. <i>Journal of Controlled Release</i> , 2018, 272, 39-53.	4.8	113
29	In vitro and in vivo evaluation of anti-nucleolin-targeted magnetic PLGA nanoparticles loaded with doxorubicin as a theranostic agent for enhanced targeted cancer imaging and therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 113, 60-74.	2.0	112
30	Polyethylenimine-functionalized carbon nanotubes tagged with AS1411 aptamer for combination gene and drug delivery into human gastric cancer cells. <i>International Journal of Pharmaceutics</i> , 2017, 516, 301-312.	2.6	111
31	Dextran-b-poly(lactide-co-glycolide) polymersome for oral delivery of insulin: In vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2016, 227, 58-70.	4.8	109
32	Ultrasensitive detection of ochratoxin A using aptasensors. <i>Biosensors and Bioelectronics</i> , 2017, 98, 168-179.	5.3	107
33	Peptide-based targeted therapeutics: Focus on cancer treatment. <i>Journal of Controlled Release</i> , 2018, 292, 141-162.	4.8	107
34	A new amplified I-shape electrochemical aptasensor for ultrasensitive detection of aflatoxin B1. <i>Biosensors and Bioelectronics</i> , 2017, 94, 374-379.	5.3	105
35	Exosomes, new biomarkers in early cancer detection. <i>Analytical Biochemistry</i> , 2019, 571, 1-13.	1.1	103
36	Nanomaterial-based cocaine aptasensors. <i>Biosensors and Bioelectronics</i> , 2015, 68, 95-106.	5.3	102

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37	Anti-MUC1 aptamer: A potential opportunity for cancer treatment. <i>Medicinal Research Reviews</i> , 2017, 37, 1518-1539.	5.0	102
38	A novel colorimetric sandwich aptasensor based on an indirect competitive enzyme-free method for ultrasensitive detection of chloramphenicol. <i>Biosensors and Bioelectronics</i> , 2016, 78, 80-86.	5.3	101
39	Molecularly imprinted polymer nanoparticles-based electrochemical sensor for determination of diazinon pesticide in well water and apple fruit samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6769-6779.	1.9	99
40	Dextran-poly lactide- co -glycolide polymersomes decorated with folate-antennae for targeted delivery of docetaxel to breast adenocarcinoma in vitro and in vivo. <i>Journal of Controlled Release</i> , 2016, 241, 45-56.	4.8	99
41	The effect of nano-curcumin on HbA1c, fasting blood glucose, and lipid profile in diabetic subjects: a randomized clinical trial. <i>Avicenna Journal of Phytomedicine</i> , 2016, 6, 567-577.	0.1	99
42	Evaluation of diazinon-induced hepatotoxicity and protective effects of crocin. <i>Toxicology and Industrial Health</i> , 2015, 31, 367-376.	0.6	96
43	Ultrasensitive detection of aflatoxin B1 and its major metabolite aflatoxin M1 using aptasensors: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 99, 117-128.	5.8	96
44	Immunomodulatory properties of MSC-derived exosomes armed with high affinity aptamer toward myelin as a platform for reducing multiple sclerosis clinical score. <i>Journal of Controlled Release</i> , 2019, 299, 149-164.	4.8	93
45	Single-walled carbon nanotubes functionalized with aptamer and piperazine-polyethylenimine derivative for targeted siRNA delivery into breast cancer cells. <i>International Journal of Pharmaceutics</i> , 2015, 485, 50-60.	2.6	89
46	Encapsulation of Thermo-responsive Gel in pH-sensitive Polymersomes as Dual-Responsive Smart carriers for Controlled Release of Doxorubicin. <i>Journal of Controlled Release</i> , 2018, 288, 45-61.	4.8	89
47	Curcumin-entrapped MUC-1 aptamer targeted dendrimer-gold hybrid nanostructure as a theranostic system for colon adenocarcinoma. <i>International Journal of Pharmaceutics</i> , 2018, 549, 67-75.	2.6	89
48	A novel electrochemical aptasensor for ultrasensitive detection of fluoroquinolones based on single-stranded DNA-binding protein. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 100-106.	4.0	87
49	Novel Colorimetric Aptasensor for Zearalenone Detection Based on Nontarget-Induced Aptamer Walker, Gold Nanoparticles, and Exonuclease-Assisted Recycling Amplification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12504-12509.	4.0	86
50	A label-free fluorescent aptasensor for selective and sensitive detection of streptomycin in milk and blood serum. <i>Food Chemistry</i> , 2016, 203, 145-149.	4.2	85
51	Biocompatible polymersomes-based cancer theranostics: Towards multifunctional nanomedicine. <i>International Journal of Pharmaceutics</i> , 2017, 519, 287-303.	2.6	85
52	AS1411 Aptamer-Decorated Biodegradable Polyethylene Glycol-Poly(lactic-co-glycolic acid) Nanopolymersomes for the Targeted Delivery of Gemcitabine to Non-Small Cell Lung Cancer In Vitro. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1741-1750.	1.6	83
53	Design, synthesis and biological evaluation of novel coumarin-based benzamides as potent histone deacetylase inhibitors and anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 132, 42-62.	2.6	83
54	Recent advances in co-delivery systems based on polymeric nanoparticle for cancer treatment. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1095-1110.	1.9	83

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55	The chemotherapeutic potential of doxorubicin-loaded PEG-b-PLGA nanopolymerosomes in mouse breast cancer model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 521-531.	2.0	80
56	A novel fluorescent aptasensor based on hairpin structure of complementary strand of aptamer and nanoparticles as a signal amplification approach for ultrasensitive detection of cocaine. <i>Biosensors and Bioelectronics</i> , 2016, 79, 288-293.	5.3	79
57	Aptamer-targeted delivery of Bcl-xL shRNA using alkyl modified PAMAM dendrimers into lung cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 92, 210-217.	1.2	78
58	Preparation and evaluation of polyethylenimine-functionalized carbon nanotubes tagged with 5TR1 aptamer for targeted delivery of Bcl-xL shRNA into breast cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 28-39.	2.5	75
59	Protective effect of crocin on BPA-induced liver toxicity in rats through inhibition of oxidative stress and downregulation of MAPK and MAPKAP signaling pathway and miRNA-122 expression. <i>Food and Chemical Toxicology</i> , 2017, 107, 395-405.	1.8	75
60	A novel electrochemical aptasensor based on nontarget-induced high accumulation of methylene blue on the surface of electrode for sensing of β -synuclein oligomer. <i>Biosensors and Bioelectronics</i> , 2019, 123, 14-18.	5.3	75
61	Targeted delivery of daunorubicin to T-cell acute lymphoblastic leukemia by aptamer. <i>Journal of Drug Targeting</i> , 2010, 18, 277-281.	2.1	74
62	Non-covalent functionalization of single-walled carbon nanotubes with modified polyethyleneimines for efficient gene delivery. <i>International Journal of Pharmaceutics</i> , 2013, 454, 204-215.	2.6	73
63	Amperometric aptasensor for ochratoxin A based on the use of a gold electrode modified with aptamer, complementary DNA, SWCNTs and the redox marker Methylene Blue. <i>Mikrochimica Acta</i> , 2017, 184, 1151-1159.	2.5	72
64	A novel electrochemical aptasensor based on single-walled carbon nanotubes, gold electrode and complimentary strand of aptamer for ultrasensitive detection of cocaine. <i>Biosensors and Bioelectronics</i> , 2015, 73, 245-250.	5.3	71
65	A novel fluorescent aptasensor based on gold and silica nanoparticles for the ultrasensitive detection of ochratoxin A. <i>Nanoscale</i> , 2016, 8, 3439-3446.	2.8	71
66	A Novel AS1411 Aptamer-Based Three-Way Junction Pocket DNA Nanostructure Loaded with Doxorubicin for Targeting Cancer Cells in Vitro and in Vivo. <i>Molecular Pharmaceutics</i> , 2018, 15, 1972-1978.	2.3	69
67	A novel colorimetric triple-helix molecular switch aptasensor based on peroxidase-like activity of gold nanoparticles for ultrasensitive detection of lead (Pb^{2+}). <i>RSC Advances</i> , 2015, 5, 43508-43514.	1.7	67
68	Double targeting, controlled release and reversible delivery of daunorubicin to cancer cells by polyvalent aptamers-modified gold nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 61, 753-761.	3.8	67
69	A label-free fluorescent aptasensor for detection of kanamycin based on dsDNA-capped mesoporous silica nanoparticles and Rhodamine B. <i>Analytica Chimica Acta</i> , 2018, 1030, 142-147.	2.6	67
70	In Vitro Insulin Release from Thermosensitive Chitosan Hydrogel. <i>AAPS PharmSciTech</i> , 2012, 13, 460-466.	1.5	66
71	Nanoparticles application in high sensitive aptasensor design. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 85-97.	5.8	66
72	Recent nucleic acid based biosensors for Pb^{2+} detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 864-878.	4.0	66

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73	Synthesis and preparation of biodegradable hybrid dextran hydrogel incorporated with biodegradable curcumin nanomicelles for full thickness wound healing. <i>International Journal of Pharmaceutics</i> , 2017, 532, 466-477.	2.6	66
74	Neuroprotective potential of crocin against malathion-induced motor deficit and neurochemical alterations in rats. <i>Environmental Science and Pollution Research</i> , 2018, 25, 4904-4914.	2.7	65
75	A fluorescent aptasensor for potassium ion detection-based triple-helix molecular switch. <i>Analytical Biochemistry</i> , 2014, 466, 72-75.	1.1	64
76	Targeted and controlled release delivery of daunorubicin to T-cell acute lymphoblastic leukemia by aptamer-modified gold nanoparticles. <i>International Journal of Pharmaceutics</i> , 2015, 489, 311-317.	2.6	64
77	Antidepressant Effect of Crocus sativus Aqueous Extract and its Effect on CREB, BDNF, and VGF Transcript and Protein Levels in Rat Hippocampus. <i>Drug Research</i> , 2015, 65, 337-343.	0.7	64
78	An electrochemical aptasensor based on gold nanoparticles, thionine and hairpin structure of complementary strand of aptamer for ultrasensitive detection of lead. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 462-469.	4.0	64
79	Fabrication of hybrid scaffold based on hydroxyapatite-biodegradable nanofibers incorporated with liposomal formulation of BMP-2 peptide for bone tissue engineering. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1987-1997.	1.7	64
80	Synthesis of AS1411-Aptamer-Conjugated CdTe Quantum Dots with High Fluorescence Strength for Probe Labeling Tumor Cells. <i>Journal of Fluorescence</i> , 2014, 24, 1519-1529.	1.3	63
81	Synthesis of theranostic epithelial cell adhesion molecule targeted mesoporous silica nanoparticle with gold gatekeeper for hepatocellular carcinoma. <i>Nanomedicine</i> , 2017, 12, 1261-1279.	1.7	63
82	Crocine restores hypotensive effect of subchronic administration of diazinon in rats. <i>Iranian Journal of Basic Medical Sciences</i> , 2013, 16, 64-72.	1.0	63
83	A novel electrochemical aptasensor based on Y-shape structure of dual-aptamer-complementary strand conjugate for ultrasensitive detection of myoglobin. <i>Biosensors and Bioelectronics</i> , 2016, 80, 532-537.	5.3	62
84	Improvement in the drug delivery and anti-tumor efficacy of PEGylated liposomal doxorubicin by targeting RNA aptamers in mice bearing breast tumor model. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 228-236.	2.5	62
85	Crocine reduced acrylamide-induced neurotoxicity in Wistar rat through inhibition of oxidative stress. <i>Iranian Journal of Basic Medical Sciences</i> , 2015, 18, 902-8.	1.0	62
86	Diets Enriched in Oat Bran or Wheat Bran Temporally and Differentially Alter the Composition of the Fecal Community of Rats. <i>Journal of Nutrition</i> , 2009, 139, 2024-2031.	1.3	61
87	Design and fabrication of an aptasensor for chloramphenicol based on energy transfer of CdTe quantum dots to graphene oxide sheet. <i>Materials Science and Engineering C</i> , 2015, 48, 611-619.	3.8	61
88	Targeted rod-shaped mesoporous silica nanoparticles for the co-delivery of camptothecin and survivin shRNA in to colon adenocarcinoma in vitro and in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 156, 84-96.	2.0	61
89	Triple-helix molecular switch-based aptasensors and DNA sensors. <i>Biosensors and Bioelectronics</i> , 2018, 111, 1-9.	5.3	60
90	Identification of possible cytotoxicity mechanism of polyethylenimine by proteomics analysis. <i>Human and Experimental Toxicology</i> , 2016, 35, 377-387.	1.1	59

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91	Extensive preclinical investigation of polymersomal formulation of doxorubicin versus Doxil-mimic formulation. <i>Journal of Controlled Release</i> , 2017, 264, 228-236.	4.8	59
92	The influence of hydro-ethanolic extract of <i>Portulaca oleracea</i> L. on Th1/Th2 balance in isolated human lymphocytes. <i>Journal of Ethnopharmacology</i> , 2016, 194, 1112-1121.	2.0	58
93	MUC1 aptamer-targeted DNA micelles for dual tumor therapy using doxorubicin and KLA peptide. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 685-697.	1.7	58
94	A novel electrochemical aptasensor for detection of aflatoxin M1 based on target-induced immobilization of gold nanoparticles on the surface of electrode. <i>Biosensors and Bioelectronics</i> , 2018, 117, 487-492.	5.3	58
95	Fabrication of acetylated carboxymethylcellulose coated hollow mesoporous silica hybrid nanoparticles for nucleolin targeted delivery to colon adenocarcinoma. <i>Carbohydrate Polymers</i> , 2018, 197, 157-166.	5.1	58
96	Selection of specific aptamer against enrofloxacin and fabrication of graphene oxide based label-free fluorescent assay. <i>Analytical Biochemistry</i> , 2018, 549, 124-129.	1.1	57
97	Self-assembled polymeric vesicles: Focus on polymersomes in cancer treatment. <i>Journal of Controlled Release</i> , 2021, 330, 502-528.	4.8	57
98	Targeted co-delivery of epirubicin and NAS-24 aptamer to cancer cells using selenium nanoparticles for enhancing tumor response in <i>Ävitro</i> and in <i>Ävivo</i> . <i>Cancer Letters</i> , 2018, 416, 87-93.	3.2	56
99	Comparative evaluation of polymersome versus micelle structures as vehicles for the controlled release of drugs. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	55
100	A new amplified fluorescent aptasensor based on hairpin structure of G-quadruplex oligonucleotide-Aptamer chimera and silica nanoparticles for sensitive detection of aflatoxin B1 in the grape juice. <i>Food Chemistry</i> , 2018, 268, 342-346.	4.2	55
101	Colorimetric aptamer based assay for the determination of fluoroquinolones by triggering the reduction-catalyzing activity of gold nanoparticles. <i>Mikrochimica Acta</i> , 2017, 184, 2039-2045.	2.5	54
102	Fluorescence quenching biosensor for acrylamide detection in food products based on double-stranded DNA and gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 339-345.	4.0	54
103	Synthesis of multimodal polymersomes for targeted drug delivery and MR/fluorescence imaging in metastatic breast cancer model. <i>International Journal of Pharmaceutics</i> , 2020, 578, 119091.	2.6	54
104	Development and characterization of DNA aptamers against florfenicol: Fabrication of a sensitive fluorescent aptasensor for specific detection of florfenicol in milk. <i>Talanta</i> , 2018, 182, 193-201.	2.9	53
105	Exosomes derived from TRAIL-engineered mesenchymal stem cells with effective anti-tumor activity in a mouse melanoma model. <i>International Journal of Pharmaceutics</i> , 2018, 549, 218-229.	2.6	53
106	A novel fluorescent aptasensor for ultrasensitive detection of microcystin-LR based on single-walled carbon nanotubes and dapoxy. <i>Talanta</i> , 2017, 166, 187-192.	2.9	52
107	Siderophore-based biosensors and nanosensors; new approach on the development of diagnostic systems. <i>Biosensors and Bioelectronics</i> , 2018, 117, 1-14.	5.3	52
108	A novel electrochemical sensor for bisphenol A detection based on nontarget-induced extension of aptamer length and formation of a physical barrier. <i>Biosensors and Bioelectronics</i> , 2018, 119, 204-208.	5.3	52

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109	Ultrasensitive detection of lead (II) based on fluorescent aptamer-functionalized carbon nanotubes. <i>Environmental Toxicology and Pharmacology</i> , 2014, 37, 1236-1242.	2.0	50
110	An ultrasensitive electrochemical sensor for 17 β -estradiol using split aptamers. <i>Analytica Chimica Acta</i> , 2019, 1065, 107-112.	2.6	50
111	A novel electrochemical aptasensor for ochratoxin a sensing in spiked food using strand-displacement polymerase reaction. <i>Talanta</i> , 2021, 223, 121705.	2.9	50
112	Targeted MMP-2 responsive chimeric polymersomes for therapy against colorectal cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111135.	2.5	50
113	Neuroprotective Effects of Thymoquinone in Acrylamide-Induced Peripheral Nervous System Toxicity Through MAPKinase and Apoptosis Pathways in Rat. <i>Neurochemical Research</i> , 2019, 44, 1101-1112.	1.6	49
114	A novel turn-off fluorescent aptasensor for ampicillin detection based on perylenetetracarboxylic acid diimide and gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112329.	5.3	49
115	Study and evaluation of nucleolin-targeted delivery of magnetic PLGA-PEG nanospheres loaded with doxorubicin to C6 glioma cells compared with low nucleolin-expressing L929 cells. <i>Materials Science and Engineering C</i> , 2017, 72, 123-133.	3.8	48
116	An electrochemical biosensor based on hemoglobin-oligonucleotides-modified electrode for detection of acrylamide in potato fries. <i>Food Chemistry</i> , 2019, 271, 54-61.	4.2	48
117	A novel colorimetric aptasensor for ultrasensitive detection of aflatoxin M1 based on the combination of CRISPR-Cas12a, rolling circle amplification and catalytic activity of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2021, 1165, 338549.	2.6	48
118	Aptamer based fluorometric acetamiprid assay using three kinds of nanoparticles for powerful signal amplification. <i>Mikrochimica Acta</i> , 2017, 184, 81-90.	2.5	46
119	MUC1 aptamer-conjugated mesoporous silica nanoparticles effectively target breast cancer cells. <i>Drug Development and Industrial Pharmacy</i> , 2018, 44, 13-18.	0.9	46
120	Synthesis of block copolymers used in polymersome fabrication: Application in drug delivery. <i>Journal of Controlled Release</i> , 2022, 341, 95-117.	4.8	46
121	Antinociceptive evaluation of ceftriaxone and minocycline alone and in combination in a neuropathic pain model in rat. <i>Neuroscience</i> , 2012, 224, 15-25.	1.1	45
122	Attenuation of oxidative stress, inflammation and apoptosis by ethanolic and aqueous extracts of <i>Crocus sativus</i> L. stigma after chronic constriction injury of rats. <i>Anais Da Academia Brasileira De Ciencias</i> , 2014, 86, 1821-1832.	0.3	45
123	Acute toxicity of functionalized single wall carbon nanotubes: A biochemical, histopathologic and proteomics approach. <i>Chemico-Biological Interactions</i> , 2017, 275, 196-209.	1.7	45
124	A colorimetric gold nanoparticle aggregation assay for malathion based on target-induced hairpin structure assembly of complementary strands of aptamer. <i>Mikrochimica Acta</i> , 2018, 185, 216.	2.5	45
125	Hybrid Vesicular Drug Delivery Systems for Cancer Therapeutics. <i>Advanced Functional Materials</i> , 2018, 28, 1802136.	7.8	45
126	Synthesis of hyaluronic acid-based polymersomes for doxorubicin delivery to metastatic breast cancer. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118835.	2.6	45

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127	Cancer immunotherapy via nucleic acid aptamers. <i>International Immunopharmacology</i> , 2015, 29, 926-936.	1.7	44
128	Graphene oxide-cationic polymer conjugates: Synthesis and application as gene delivery vectors. <i>Plasmid</i> , 2016, 84-85, 51-60.	0.4	44
129	Proteomics and phosphoproteomics analysis of liver in male rats exposed to bisphenol A: Mechanism of hepatotoxicity and biomarker discovery. <i>Food and Chemical Toxicology</i> , 2018, 112, 26-38.	1.8	44
130	An electrochemical sensing platform based on ladder-shaped DNA structure and label-free aptamer for ultrasensitive detection of ampicillin. <i>Biosensors and Bioelectronics</i> , 2019, 133, 230-235.	5.3	44
131	Regulation of Akt during hibernation in Richardson's ground squirrels. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 185-193.	1.1	43
132	Preparation and characterization of spray-dried powders intended for pulmonary delivery of Insulin with regard to the selection of excipients. <i>International Journal of Pharmaceutics</i> , 2014, 465, 464-478.	2.6	43
133	Optical and electrochemical aptasensors for the detection of amphenicols. <i>Biosensors and Bioelectronics</i> , 2018, 118, 137-152.	5.3	43
134	A novel MUC1 aptamer-modified PLGA-epirubicin-P ² AE-antimir-21 nanocomplex platform for targeted co-delivery of anticancer agents in vitro and in vivo. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 231-238.	2.5	43
135	Colorimetric and ratiometric aggregation assay for streptomycin using gold nanoparticles and a new and highly specific aptamer. <i>Mikrochimica Acta</i> , 2016, 183, 1687-1697.	2.5	42
136	Efficient megalin targeted delivery to renal proximal tubular cells mediated by modified-polymyxin B-polyethylenimine based nano-gene-carriers. <i>Materials Science and Engineering C</i> , 2017, 79, 770-782.	3.8	42
137	Crocic-protected malathion-induced spatial memory deficits by inhibiting TAU protein hyperphosphorylation and antiapoptotic effects. <i>Nutritional Neuroscience</i> , 2020, 23, 221-236.	1.5	42
138	Cellular delivery of shRNA using aptamer-conjugated PLL-alkyl-PEI nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 355-364.	2.5	41
139	Preparation and characterization of uniform-sized PLGA nanospheres encapsulated with oleic acid-coated magnetic-Fe ₃ O ₄ nanoparticles for simultaneous diagnostic and therapeutic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 514, 146-154.	2.3	41
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