

Khalil Abnous

List of Publications by Citations

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371
papers

10,899
citations

58
h-index

77
g-index

385
ext. papers

13,216
ext. citations

5.7
avg, IF

6.98
L-index

#	Paper	IF	Citations
371	Neuroprotective effect of crocin on acrylamide-induced cytotoxicity in PC12 cells. <i>Cellular and Molecular Neurobiology</i> , 2012 , 32, 227-35	4.6	164
370	A novel colorimetric triple-helix molecular switch aptasensor for ultrasensitive detection of tetracycline. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 181-7	11.8	152
369	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	8.5	139
368	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, 123-8	11.8	119
367	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, 200-6	5.7	115
366	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	8.5	112
365	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, 191-7	5.1	111
364	Lateral flow based immunobiosensors for detection of food contaminants. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 235-246	11.8	110
363	Protective effect of crocin on diazinon induced cardiotoxicity in rats in subchronic exposure. <i>Chemico-Biological Interactions</i> , 2013 , 203, 547-55	5	109
362	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	11.8	108
361	Enzyme responsive drug delivery systems in cancer treatment. <i>Journal of Controlled Release</i> , 2019 , 308, 172-189	11.7	108
360	SELEX methods on the road to protein targeting with nucleic acid aptamers. <i>Biochimie</i> , 2018 , 154, 132-156	11.5	107
359	Epithelial cell adhesion molecule aptamer conjugated PEG-PLGA nanopolymerosomes for targeted delivery of doxorubicin to human breast adenocarcinoma cell line in vitro. <i>International Journal of Pharmaceutics</i> , 2015 , 479, 241-51	6.5	102
358	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	3.9	98
357	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	11.7	97
356	Aptasensors for quantitative detection of kanamycin. <i>Biosensors and Bioelectronics</i> , 2016 , 82, 162-72	11.8	97
355	Fabrication of aptamer decorated dextran coated nano-graphene oxide for targeted drug delivery. <i>Carbohydrate Polymers</i> , 2017 , 155, 218-229	10.3	96

354	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, 162-78	6.5	94
353	Nanomaterial-based cocaine aptasensors. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 95-106	11.8	93
352	A novel M-shape electrochemical aptasensor for ultrasensitive detection of tetracyclines. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 509-514	11.8	93
351	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, 152-8	5.7	91
350	Aptamer based biosensors for detection of Staphylococcus aureus. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 619-635	8.5	91
349	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	6.5	89
348	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	5.7	89
347	Chitosan-modified PLGA nanoparticles tagged with 5TR1 aptamer for in vivo tumor-targeted drug delivery. <i>Cancer Letters</i> , 2017 , 400, 1-8	9.9	88
346	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	1.4	88
345	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	6.5	87
344	A new amplified Bshape electrochemical aptasensor for ultrasensitive detection of aflatoxin B. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 374-379	11.8	84
343	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	11.7	83
342	Gold nanoparticle should understand protein corona for being a clinical nanomaterial. <i>Journal of Controlled Release</i> , 2018 , 272, 39-53	11.7	80
341	Silica based hybrid materials for drug delivery and bioimaging. <i>Journal of Controlled Release</i> , 2018 , 277, 57-76	11.7	80
340	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	11.8	79
339	Ultrasensitive detection of ochratoxin A using aptasensors. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 168-179	11.8	78
338	Evaluation of diazinon-induced hepatotoxicity and protective effects of crocin. <i>Toxicology and Industrial Health</i> , 2015 , 31, 367-76	1.8	76
337	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, 6769-79	4.4	72

336	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	11.7	71
335	Anti-MUC1 aptamer: A potential opportunity for cancer treatment. <i>Medicinal Research Reviews</i> , 2017 , 37, 1518-1539	14.4	71
334	Therapeutic applications of AS1411 aptamer, an update review. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1420-1431	7.9	68
333	Exosomes, new biomarkers in early cancer detection. <i>Analytical Biochemistry</i> , 2019 , 571, 1-13	3.1	66
332	Electrochemical and optical aptamer-based sensors for detection of tetracyclines. <i>Trends in Food Science and Technology</i> , 2018 , 73, 45-57	15.3	66
331	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	8.5	66
330	Peptide-based targeted therapeutics: Focus on cancer treatment. <i>Journal of Controlled Release</i> , 2018 , 292, 141-162	11.7	66
329	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	6.5	65
328	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	9.5	65
327	Targeted delivery of daunorubicin to T-cell acute lymphoblastic leukemia by aptamer. <i>Journal of Drug Targeting</i> , 2010 , 18, 277-81	5.4	65
326	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	11.7	64
325	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	6.8	62
324	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, 288-93	11.8	62
323	A novel electrochemical aptasensor based on single-walled carbon nanotubes, gold electrode and complementary strand of aptamer for ultrasensitive detection of cocaine. <i>Biosensors and Bioelectronics</i> , 2015 , 73, 245-250	11.8	62
322	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	3.9	62
321	The chemotherapeutic potential of doxorubicin-loaded PEG-b-PLGA nanopolymersomes in mouse breast cancer model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 94, 521-31	5.7	60
320	A novel fluorescent aptasensor based on gold and silica nanoparticles for the ultrasensitive detection of ochratoxin A. <i>Nanoscale</i> , 2016 , 8, 3439-46	7.7	60
319	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	6.5	60

318	Non-covalent functionalization of single-walled carbon nanotubes with modified polyethyleneimines for efficient gene delivery. <i>International Journal of Pharmaceutics</i> , 2013 , 454, 204-156.5	6.5	60
317	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	8.5	60
316	Biocompatible polymersomes-based cancer theranostics: Towards multifunctional nanomedicine. <i>International Journal of Pharmaceutics</i> , 2017 , 519, 287-303	6.5	58
315	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	5.8	58
314	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	4.7	58
313	In vitro insulin release from thermosensitive chitosan hydrogel. <i>AAPS PharmSciTech</i> , 2012 , 13, 460-6	3.9	58
312	Crocin restores hypotensive effect of subchronic administration of diazinon in rats. <i>Iranian Journal of Basic Medical Sciences</i> , 2013 , 16, 64-72	1.8	58
311	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	5.6	57
310	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	6	57
309	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	14.6	56
308	Crocin reduced acrylamide-induced neurotoxicity in Wistar rat through inhibition of oxidative stress. <i>Iranian Journal of Basic Medical Sciences</i> , 2015 , 18, 902-8	1.8	56
307	Recent advances in co-delivery systems based on polymeric nanoparticle for cancer treatment. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 1095-1110	6.1	55
306	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, 611-9	8.3	54
305	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, 1972-1978.6	5.6	52
304	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	5.1	52
303	Synthesis of theranostic epithelial cell adhesion molecule targeted mesoporous silica nanoparticle with gold gatekeeper for hepatocellular carcinoma. <i>Nanomedicine</i> , 2017 , 12, 1261-1279	5.6	51
302	A novel colorimetric triple-helix molecular switch aptasensor based on peroxidase-like activity of gold nanoparticles for ultrasensitive detection of lead(II). <i>RSC Advances</i> , 2015 , 5, 43508-43514	3.7	51
301	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, 532-537.11.8	11.8	51

300	A fluorescent aptasensor for potassium ion detection-based triple-helix molecular switch. <i>Analytical Biochemistry</i> , 2014 , 466, 72-5	3.1	51
299	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, 2024-31	4.1	51
298	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, 311-7	6.5	49
297	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, 337-43	1.8	49
296	Synthesis of AS1411-aptamer-conjugated CdTe quantum dots with high fluorescence strength for probe labeling tumor cells. <i>Journal of Fluorescence</i> , 2014 , 24, 1519-29	2.4	49
295	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	8.5	49
294	A novel electrochemical aptasensor based on nontarget-induced high accumulation of methylene blue on the surface of electrode for sensing of β -nuclein oligomer. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 14-18	11.8	47
293	A novel fluorescent aptasensor for ultrasensitive detection of microcystin-LR based on single-walled carbon nanotubes and dapoxyl. <i>Talanta</i> , 2017 , 166, 187-192	6.2	46
292	Nanoparticles application in high sensitive aptasensor design. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 85, 85-97	14.6	46
291	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, 753-61	8.3	46
290	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	6.5	46
289	Recent nucleic acid based biosensors for Pb ²⁺ detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 864-878	8.5	45
288	Targeted co-delivery of epirubicin and NAS-24 aptamer to cancer cells using selenium nanoparticles for enhancing tumor response in vitro and in vivo. <i>Cancer Letters</i> , 2018 , 416, 87-93	9.9	45
287	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	6.6	45
286	Comparative evaluation of polymersome versus micelle structures as vehicles for the controlled release of drugs. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	44
285	Triple-helix molecular switch-based aptasensors and DNA sensors. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 1-9	11.8	44
284	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, 228-36	6	44
283	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	6	44

282	Identification of possible cytotoxicity mechanism of polyethylenimine by proteomics analysis. <i>Human and Experimental Toxicology</i> , 2016 , 35, 377-87	3.4	43
281	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	10.3	43
280	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	8.3	43
279	The influence of hydro-ethanolic extract of <i>Portulaca oleracea</i> L. on Th/Th balance in isolated human lymphocytes. <i>Journal of Ethnopharmacology</i> , 2016 , 194, 1112-1121	5	42
278	Ultrasensitive detection of lead (II) based on fluorescent aptamer-functionalized carbon nanotubes. <i>Environmental Toxicology and Pharmacology</i> , 2014 , 37, 1236-42	5.8	42
277	A novel electrochemical aptasensor for detection of aflatoxin M based on target-induced immobilization of gold nanoparticles on the surface of electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 487-492	11.8	41
276	Extensive preclinical investigation of polymersomal formulation of doxorubicin versus Doxil-mimic formulation. <i>Journal of Controlled Release</i> , 2017 , 264, 228-236	11.7	41
275	Aptamer based fluorometric acetamiprid assay using three kinds of nanoparticles for powerful signal amplification. <i>Mikrochimica Acta</i> , 2017 , 184, 81-90	5.8	41
274	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	11.7	40
273	Antinociceptive evaluation of ceftriaxone and minocycline alone and in combination in a neuropathic pain model in rat. <i>Neuroscience</i> , 2012 , 224, 15-25	3.9	40
272	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	6	39
271	A new amplified fluorescent aptasensor based on hairpin structure of G-quadruplex oligonucleotide-Aptamer chimera and silica nanoparticles for sensitive detection of aflatoxin B in the grape juice. <i>Food Chemistry</i> , 2018 , 268, 342-346	8.5	39
270	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, 1821-32	1.4	38
269	Regulation of Akt during hibernation in Richardson® ground squirrels. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 185-93	4	38
268	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, 464-78	6.5	37
267	Cancer immunotherapy via nucleic acid aptamers. <i>International Immunopharmacology</i> , 2015 , 29, 926-936	5.8	36
266	Targeted delivery of Epirubicin to cancer cells by PEGylated A10 aptamer. <i>Journal of Drug Targeting</i> , 2013 , 21, 739-44	5.4	36
265	Targeted doxorubicin-loaded mesenchymal stem cells-derived exosomes as a versatile platform for fighting against colorectal cancer. <i>Life Sciences</i> , 2020 , 261, 118369	6.8	36

264	Detection of kanamycin by using an aptamer-based biosensor using silica nanoparticles. <i>Analytical Methods</i> , 2015 , 7, 8611-8616	3.2	35
263	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	6.2	35
262	Involvement of brain-derived neurotrophic factor (BDNF) on malathion induced depressive-like behavior in subacute exposure and protective effects of crocin. <i>Iranian Journal of Basic Medical Sciences</i> , 2015 , 18, 958-66	1.8	35
261	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	5.8	34
260	A new chemotherapy agent-free theranostic system composed of graphene oxide nano-complex and aptamers for treatment of cancer cells. <i>International Journal of Pharmaceutics</i> , 2017 , 526, 391-399	6.5	34
259	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	5.1	34
258	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	11.8	34
257	Acute toxicity of functionalized single wall carbon nanotubes: A biochemical, histopathologic and proteomics approach. <i>Chemico-Biological Interactions</i> , 2017 , 275, 196-209	5	34
256	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	11.8	33
255	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	4.6	33
254	Cellular delivery of shRNA using aptamer-conjugated PLL-alkyl-PEI nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 355-64	6	33
253	MUC1 aptamer-conjugated mesoporous silica nanoparticles effectively target breast cancer cells. <i>Drug Development and Industrial Pharmacy</i> , 2018 , 44, 13-18	3.6	33
252	Skeletal muscle hexokinase: regulation in mammalian hibernation. <i>Molecular and Cellular Biochemistry</i> , 2008 , 319, 41-50	4.2	33
251	Electrochemical aptamer based assay for the neonicotinoid insecticide acetamiprid based on the use of an unmodified gold electrode. <i>Mikrochimica Acta</i> , 2017 , 184, 499-505	5.8	32
250	A novel fluorescent aptasensor for selective and sensitive detection of digoxin based on silica nanoparticles. <i>Analytical Methods</i> , 2015 , 7, 3814-3818	3.2	32
249	Selection of specific aptamer against enrofloxacin and fabrication of graphene oxide based label-free fluorescent assay. <i>Analytical Biochemistry</i> , 2018 , 549, 124-129	3.1	32
248	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	8.5	32
247	Targeted Delivery of Epirubicin to Cancer Cells by Polyvalent Aptamer System in vitro and in vivo. <i>Pharmaceutical Research</i> , 2016 , 33, 2289-97	4.5	32

246	Promising gene delivery system based on polyethylenimine-modified silica nanoparticles. <i>Cancer Gene Therapy</i> , 2017 , 24, 156-164	5.4	31
245	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	6.5	31
244	Co-delivery of Dual Toll-Like Receptor Agonists and Antigen in Poly(Lactic-Co-Glycolic) Acid/Polyethylenimine Cationic Hybrid Nanoparticles Promote Efficient Immune Responses. <i>Frontiers in Immunology</i> , 2017 , 8, 1077	8.4	31
243	Graphene oxide-cationic polymer conjugates: Synthesis and application as gene delivery vectors. <i>Plasmid</i> , 2016 , 84-85, 51-60	3.3	31
242	Targeted delivery of doxorubicin to cancer cells by a cruciform DNA nanostructure composed of AS1411 and FOXM1 aptamers. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 1045-1052	8	31
241	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	5.8	30
240	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	5.8	30
239	Protective effect of crocin on acrolein-induced tau phosphorylation in the rat brain. <i>Acta Neurobiologiae Experimentalis</i> , 2015 , 75, 208-19	1	30
238	A novel electrochemical aptasensor based on H-shape structure of aptamer-complimentary strands conjugate for ultrasensitive detection of cocaine. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 351-355	8.5	29
237	Rabbit nasal immunization against influenza by dry-powder form of chitosan nanospheres encapsulated with influenza whole virus and adjuvants. <i>International Journal of Pharmaceutics</i> , 2014 , 475, 1-8	6.5	29
236	Effect of Nigella sativa fixed oil on ethanol toxicity in rats. <i>Iranian Journal of Basic Medical Sciences</i> , 2014 , 17, 1020-31	1.8	29
235	A novel MUC1 aptamer-modified PLGA-epirubicin-PAA-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	6	29
234	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	11.8	28
233	An aptamer for recognizing the transmembrane protein PDL-1 (programmed death-ligand 1), and its application to fluorometric single cell detection of human ovarian carcinoma cells. <i>Mikrochimica Acta</i> , 2017 , 184, 4029-4035	5.8	28
232	An aptasensor for selective, sensitive and fast detection of lead(II) based on polyethyleneimine and gold nanoparticles. <i>Environmental Toxicology and Pharmacology</i> , 2015 , 39, 1206-11	5.8	28
231	Sensitive and fast detection of tetracycline using an aptasensor. <i>Analytical Methods</i> , 2015 , 7, 2523-2528	3.2	28
230	A simple and rapid fluorescent aptasensor for ultrasensitive detection of arsenic based on target-induced conformational change of complementary strand of aptamer and silica nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 472-478	8.5	28
229	Siderophore-based biosensors and nanosensors; new approach on the development of diagnostic systems. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 1-14	11.8	28

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