Xiubo Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4607522/publications.pdf

Version: 2024-02-01

113 papers	5,267 citations	108046 37 h-index	104191 69 g-index
117 all docs	117 docs citations	117 times ranked	7342 citing authors

#	Article	IF	Citations
1	Rationally designed short cationic Î±-helical peptides with selective anticancer activity. Journal of Colloid and Interface Science, 2022, 607, 488-501.	5.0	36
2	Correlation between the secondary structure and surface activity of Î²-sheet forming cationic amphiphilic peptides and their anticancer activity. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112165.	2.5	14
3	Attapulgite-doped electrospun PCL scaffolds for enhanced bone regeneration in rat cranium defects. Materials Science and Engineering C, 2022, 133, 112656.	3.8	12
4	3D printable self-propelling sensors for the assessment of water quality via surface tension. Jcis Open, 2022, 5, 100044.	1.5	6
5	Current state of the art in peptide-based gene delivery. Journal of Controlled Release, 2022, 343, 600-619.	4.8	45
6	3D printed biocompatible graphene oxide, attapulgite, and collagen composite scaffolds for bone regeneration. Journal of Biomaterials Applications, 2022, 36, 1838-1851.	1.2	6
7	Immunomodulation of Telmisartan-Loaded PCL/PVP Scaffolds on Macrophages Promotes Endogenous Bone Regeneration. ACS Applied Materials & Interfaces, 2022, 14, 15942-15955.	4.0	10
8	Rationally designed cationic amphiphilic peptides for selective gene delivery to cancer cells. International Journal of Pharmaceutics, 2022, 617, 121619.	2.6	7
9	Peptide-functionalised magnetic silk nanoparticles produced by a swirl mixer for enhanced anticancer activity of ASC-J9. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112549.	2.5	19
10	Optimization of large-scale manufacturing of biopolymeric and lipid nanoparticles using microfluidic swirl mixers. International Journal of Pharmaceutics, 2022, 620, 121762.	2.6	17
11	3D inkjet printed self-propelled motors for micro-stirring. Journal of Colloid and Interface Science, 2022, 623, 96-108.	5.0	7
12	Novel microfluidic swirl mixers for scalable formulation of curcumin loaded liposomes for cancer therapy. International Journal of Pharmaceutics, 2022, 622, 121857.	2.6	18
13	Synergistic effects of nanoattapulgite and hydroxyapatite on vascularization and bone formation in a rabbit tibia bone defect model. Biomaterials Science, 2022, 10, 4635-4655.	2.6	6
14	Recent advances in 3D bioprinting of vascularized tissues. Materials and Design, 2021, 199, 109398.	3.3	65
15	Reactive inkjet printing of graphene based flexible circuits and radio frequency antennas. Journal of Materials Chemistry C, 2021, 9, 13182-13192.	2.7	17
16	Silk Fibroin as a Functional Biomaterial for Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 1499.	1.8	198
17	Stiffness-tuneable nanocarriers for controlled delivery of ASC-J9 into colorectal cancer cells. Journal of Colloid and Interface Science, 2021, 594, 513-521.	5.0	29
18	Inkjet printing of mammalian cells â€“ Theory and applications. Bioprinting, 2021, 23, e00157.	2.9	28

#	Article	IF	Citations
19	Photodegradation of textile pollutants by nanocomposite membranes of polyvinylidene fluoride integrated with polyanilineâ€“titanium dioxide nanotubes. Chemical Engineering Journal, 2021, 419, 129542.	6.6	29
20	Cell guidance on peptide micropatterned silk fibroin scaffolds. Journal of Colloid and Interface Science, 2021, 603, 380-390.	5.0	19
21	Designed Antitumor Peptide for Targeted siRNA Delivery into Cancer Spheroids. ACS Applied Materials & Interfaces, 2021, 13, 49713-49728.	4.0	19
22	One-Step Microfluidic Fabrication of Multi-Responsive Liposomes for Targeted Delivery of Doxorubicin Synergism with Photothermal Effect. International Journal of Nanomedicine, 2021, Volume 16, 7759-7772.	3.3	20
23	Interfacial Assembly Inspired by Marine Mussels and Antifouling Effects of Polypeptoids: A Neutron Reflection Study. Langmuir, 2020, 36, 12309-12318.	1.6	9
24	Recent Advances in Microfluidics for the Preparation of Drug and Gene Delivery Systems. Molecular Pharmaceutics, 2020, 17, 4421-4434.	2.3	62
25	Patterning the neuronal cells via inkjet printing of self-assembled peptides on silk scaffolds. Progress in Natural Science: Materials International, 2020, 30, 686-696.	1.8	16
26	Electrospun Icariin-Loaded Core-Shell Collagen, Polycaprolactone, Hydroxyapatite Composite Scaffolds for the Repair of Rabbit Tibia Bone Defects . International Journal of Nanomedicine, 2020, Volume 15, 3039-3056.	3.3	28
27	Collagen, polycaprolactone and attapulgite composite scaffolds for in vivo bone repair in rabbit models. Biomedical Materials (Bristol), 2020, 15, 045022.	1.7	13
28	Silk Fibroin as a Functional Biomaterial for Drug and Gene Delivery. Pharmaceutics, 2019, 11, 494.	2.0	121
29	Reactive Inkjet Printing and Propulsion Analysis of Silk-based Self-propelled Micro-stirrers. Journal of Visualized Experiments, 2019, , .	0.2	3
30	A Review of Curcumin and Its Derivatives as Anticancer Agents. International Journal of Molecular Sciences, 2019, 20, 1033.	1.8	538
31	Magnetic-silk/polyethyleneimine core-shell nanoparticles for targeted gene delivery into human breast cancer cells. International Journal of Pharmaceutics, 2019, 555, 322-336.	2.6	41
32	Reactive Inkjet Printing of Functional Silk Stirrers for Enhanced Mixing and Sensing. Small, 2019, 15, e1804213.	5.2	16
33	Surface Modification to Improve Biocompatibility. , 2019, , 471-487.		0
34	Magnetic Alginate/Chitosan Nanoparticles for Targeted Delivery of Curcumin into Human Breast Cancer Cells. Nanomaterials, 2018, 8, 907.	1.9	94
35	Film bulk acoustic resonators (FBARs) as biosensors: A review. Biosensors and Bioelectronics, 2018, 116, 1-15.	5.3	66
36	Toxic effect of the novel chiral insecticide IPP and its biodegradation intermediate in nematode Caenorhabditis elegans. Ecotoxicology and Environmental Safety, 2018, 164, 604-610.	2.9	12

#	Article	IF	Citations
37	Magnetic-Silk Coreâ€“Shell Nanoparticles as Potential Carriers for Targeted Delivery of Curcumin into Human Breast Cancer Cells. ACS Biomaterials Science and Engineering, 2017, 3, 1027-1038.	2.6	75
38	CHAPTER 8. Reactive Inkjet Printing of Regenerated Silk Fibroin as a 3D Scaffold for Autonomous Swimming Devices (Micro-rockets). RSC Smart Materials, 2017, , 169-201.	0.1	0
39	Synergistic effect of bioactive lipid and condition medium on cardiac differentiation of human mesenchymal stem cells from different tissues. Cell Biochemistry and Function, 2016, 34, 163-172.	1.4	3
40	Reactive Inkjet Printing of Biocompatible Enzyme Powered Silk Microâ€Rockets. Small, 2016, 12, 4048-4055.	5.2	57
41	Reactive Inkjet Printing: Reactive Inkjet Printing of Biocompatible Enzyme Powered Silk Micro-Rockets (Small 30/2016). Small, 2016, 12, 4022-4022.	5.2	1
42	Interfacial Adsorption of Silk Fibroin Peptides and Their Interaction with Surfactants at the Solidâ€“Water Interface. Langmuir, 2016, 32, 8202-8211.	1.6	11
43	Biocompatible silk fibroin scaffold prepared by reactive inkjet printing. Journal of Materials Science, 2016, 51, 8625-8630.	1.7	20
44	Engineering a thermostable iron superoxide dismutase based on manganese superoxide dismutase from Thermus thermophilus. Process Biochemistry, 2016, 51, 39-47.	1.8	4
45	Altering the Bubble Release of Reactive Inkjet Printed Silk Micro-rockets. NIP & Digital Fabrication Conference, 2016, 32, 452-456.	0.1	0
46	ZnO based SAW and FBAR devices for bio-sensing applications. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 209-216.	1.0	39
47	Gelatin modified ultrathin silk fibroin films for enhanced proliferation of cells. Biomedical Materials (Bristol), 2015, 10, 025003.	1.7	18
48	Co-adsorption of peptide amphiphile V₆K and conventional surfactants SDS and C₁₂TAB at the solid/water interface. Soft Matter, 2015, 11, 7986-7994.	1.2	8
49	Label-free detection of human prostate-specific antigen (hPSA) using film bulk acoustic resonators (FBARs). Sensors and Actuators B: Chemical, 2014, 190, 946-953.	4.0	34
50	Interfacial Structure of Immobilized Antibodies and Perdeuterated HSA in Model Pregnancy Tests Measured with Neutron Reflectivity. Langmuir, 2014, 30, 5880-5887.	1.6	8
51	Stress fermentation strategies for the production of hyperthermostable superoxide dismutase from Thermus thermophilus HB27: effects of ions. Extremophiles, 2013, 17, 995-1002.	0.9	10
52	Interfacial assembly of lipopeptide surfactants on octyltrimethoxysilane-modified silica surface. Soft Matter, 2013, 9, 9684-9691.	1.2	10
53	Direct comparison of the gravimetric responsivities of ZnO-based FBARs and SMRs. Sensors and Actuators B: Chemical, 2013, 183, 136-143.	4.0	17
54	Immobilization of Lipases on Alkyl Silane Modified Magnetic Nanoparticles: Effect of Alkyl Chain Length on Enzyme Activity. PLoS ONE, 2012, 7, e43478.	1.1	76

#	Article	IF	Citations
55	Interfacial recognition of human prostate-specific antigen by immobilized monoclonal antibody: effects of solution conditions and surface chemistry. Journal of the Royal Society Interface, 2012, 9, 2457-2467.	1.5	49
56	Structural Insight of Antibody Adsorption for Improved Bioactivity and Detection. ACS Symposium Series, 2012, , 543-574.	0.5	3
57	Interfacial adsorption of cationic peptideamphiphiles: a combined study of in situspectroscopic ellipsometry and liquid AFM. Soft Matter, 2012, 8, 645-652.	1.2	23
58	Controllable Stabilization of Poly(N-isopropylacrylamide)-Based Microgel Films through Biomimetic Mineralization of Calcium Carbonate. Biomacromolecules, 2012, 13, 2299-2308.	2.6	28
59	Dual-mode thin film bulk acoustic wave resonators for parallel sensing of temperature and mass loading. Biosensors and Bioelectronics, 2012, 38, 369-374.	5.3	36
60	Molecular mechanisms of antibacterial and antitumor actions of designed surfactant-like peptides. Biomaterials, 2012, 33, 592-603.	5.7	84
61	Protein functionalized ZnO thin film bulk acoustic resonator as an odorant biosensor. Sensors and Actuators B: Chemical, 2012, 163, 242-246.	4.0	35
62	Interfacial adsorption of lipopeptidesurfactants at the silica/water interface studied by neutron reflection. Soft Matter, 2011, 7, 1777-1788.	1.2	17
63	Self-Assembly of Short AÎ²(16â^'22) Peptides: Effect of Terminal Capping and the Role of Electrostatic Interaction. Langmuir, 2011, 27, 2723-2730.	1.6	108
64	Dynamic Adsorption and Structure of Interfacial Bilayers Adsorbed from Lipopeptide Surfactants at the Hydrophilic Silicon/Water Interface: Effect of the Headgroup Length. Langmuir, 2011, 27, 8798-8809.	1.6	14
65	Surface Modification to Improve Biocompatibility. , 2011, , 65-81.		3
66	Effects of Anions on Nanostructuring of Cationic Amphiphilic Peptides. Journal of Physical Chemistry B, 2011, 115, 11862-11871.	1.2	20
67	Designed Antimicrobial and Antitumor Peptides with High Selectivity. Biomacromolecules, 2011, 12, 3839-3843.	2.6	113
68	ZnO-Based FBAR resonators with carbon nanotube electrodes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2438-2445.	1.7	14
69	Interfacial Immobilization of Monoclonal Antibody and Detection of Human Prostate-Specific Antigen. Langmuir, 2011, 27, 7654-7662.	1.6	70
70	Deposition and characterisation of ultralow-stress ZnO thin films for application in FBAR-based gravimetric biosensors. International Journal of Nanomanufacturing, 2011, 7, 371.	0.3	7
71	AlN-based BAW resonators with CNT electrodes for gravimetric biosensing. Sensors and Actuators B: Chemical, 2011, 160, 1386-1393.	4.0	42
72	Sphingosine-1-phosphate promotes the differentiation of human umbilical cord mesenchymal stem cells into cardiomyocytes under the designated culturing conditions. Journal of Biomedical Science, 2011, 18, 37.	2.6	36

#	Article	IF	Citations
73	Selfâ€Assembly of Short Peptide Amphiphiles: The Cooperative Effect of Hydrophobic Interaction and Hydrogen Bonding. Chemistry - A European Journal, 2011, 17, 13095-13102.	1.7	144
74	Solidly mounted resonators with carbon nanotube electrodes for biosensing applications. , 2011, , .		0
75	Twisted Nanotubes Formed from Ultrashort Amphiphilic Peptide I₃K and Their Templating for the Fabrication of Silica Nanotubes. Chemistry of Materials, 2010, 22, 5165-5173.	3.2	110
76	Surface structural conformations of fibrinogen polypeptides for improved biocompatibility. Biomaterials, 2010, 31, 3781-3792.	5.7	40
77	The synthesis of mesoporous Ce1â^'x Zr x O2 by modified evaporation-induced self-assembly method. Journal of Materials Science, 2010, 45, 3563-3568.	1.7	17
78	Interfacial Dynamic Adsorption and Structure of Molecular Layers of Peptide Surfactants. Langmuir, 2010, 26, 5690-5696.	1.6	36
79	Fabrication of high-Q film bulk acoustic resonator (FBAR) filters with carbon nanotube (CNT) electrodes. , 2010, , .		2
80	Molecular self-assembly and applications of designer peptide amphiphiles. Chemical Society Reviews, 2010, 39, 3480.	18.7	599
81	Antibacterial Activities of Short Designer Peptides: a Link between Propensity for Nanostructuring and Capacity for Membrane Destabilization. Biomacromolecules, 2010, 11, 402-411.	2.6	182
82	Thermoresponsive Copolymer Nanofilms for Controlling Cell Adhesion, Growth, and Detachment. Langmuir, 2010, 26, 17304-17314.	1.6	33
83	Molecular biophysics underlying gene delivery. Annual Reports on the Progress of Chemistry Section C, 2010, 106, 305.	4.4	2
84	Interfacial assembly of proteins and peptides: recent examples studied by neutron reflection. Journal of the Royal Society Interface, 2009, 6, S659-70.	1.5	41
85	Hydrophobic-Region-Induced Transitions in Self-Assembled Peptide Nanostructures. Langmuir, 2009, 25, 4115-4123.	1.6	137
86	Ranaspumin-2: Structure and Function of a Surfactant Protein from the Foam Nests of a Tropical Frog. Biophysical Journal, 2009, 96, 4984-4992.	0.2	47
87	Controlled delivery of antisense oligonucleotides: a brief review of current strategies. Expert Opinion on Drug Delivery, 2009, 6, 673-686.	2.4	73
88	Interfacial assembly of cationic peptide surfactants. Soft Matter, 2009, 5, 1630.	1.2	28
89	Dynamic self-assembly of surfactant-like peptides A6K and A9K. Soft Matter, 2009, 5, 3870.	1.2	59
90	Latherin: A Surfactant Protein of Horse Sweat and Saliva. PLoS ONE, 2009, 4, e5726.	1.1	66

#	Article	IF	Citations
91	Solution Behavior and Activity of a Halophilic Esterase under High Salt Concentration. PLoS ONE, 2009, 4, e6980.	1.1	51
92	Recent development of peptide self-assembly. Progress in Natural Science: Materials International, 2008, 18, 653-660.	1.8	74
93	Controlled delivery of anti-sense oligodeoxynucleotide from multilayered biocompatible phosphorylcholine polymer films. Journal of Controlled Release, 2008, 130, 69-76.	4.8	18
94	Interfacial Adsorption of Antifreeze Proteins: A Neutron Reflection Study. Biophysical Journal, 2008, 94, 4405-4413.	0.2	16
95	Interfacial adsorption and denaturization of human milk and recombinant rice lactoferrin. Biointerphases, 2008, 3, FB36-FB43.	0.6	14
96	Cationic Copolymer-Mediated DNA Immobilization: Interfacial Structure and Composition As Determined by Ellipsometry, Dual Polarization Interferometry, and Neutron Reflection. Langmuir, 2008, 24, 13556-13564.	1.6	35
97	Plasmid DNA Complexation with Phosphorylcholine Diblock Copolymers and Its Effect on Cell Transfection. Langmuir, 2008, 24, 6881-6888.	1.6	20
98	pH-Responsive Nanoaggregation of Diblock Phosphorylcholine Copolymers. Journal of Physical Chemistry B, 2008, 112, 9652-9659.	1.2	5
99	Precise particle tracking against a complicated background: polynomial fitting with Gaussian weight. Physical Biology, 2007, 4, 220-227.	0.8	164
100	Relationship between the Structural Conformation of Monoclonal Antibody Layers and Antigen Binding Capacity. Biomacromolecules, 2007, 8, 2422-2428.	2.6	25
101	Nanostructure of Polyplexes Formed between Cationic Diblock Copolymer and Antisense Oligodeoxynucleotide and Its Influence on Cell Transfection Efficiency. Biomacromolecules, 2007, 8, 3493-3502.	2.6	26
102	Coadsorption of Human Milk Lactoferrin into the Dipalmitoylglycerolphosphatidylcholine Phospholipid Monolayer Spread at the Air/Water Interface. Biophysical Journal, 2007, 92, 1254-1262.	0.2	23
103	Interfacial immobilisation of DNA molecules. Annual Reports on the Progress of Chemistry Section C, 2007, 103, 261.	4.4	9
104	Protein adsorption studied by neutron reflection. Current Opinion in Colloid and Interface Science, 2007, 12, 9-16.	3.4	99
105	Biomimetic amphiphiles: Biosurfactants. Current Opinion in Colloid and Interface Science, 2007, 12, 60-67.	3.4	68
106	Separation of glucose oxidase and catalase using ultrafiltration with 300-kDa polyethersulfone membranes. Journal of Membrane Science, 2007, 299, 222-228.	4.1	18
107	Orientation of a Monoclonal Antibody Adsorbed at the Solid/Solution Interface:Â A Combined Study Using Atomic Force Microscopy and Neutron Reflectivity. Langmuir, 2006, 22, 6313-6320.	1.6	100
108	Controlled Delivery of Antisense Oligodeoxynucleotide from Cationically Modified Phosphorylcholine Polymer Films. Biomacromolecules, 2006, 7, 784-791.	2.6	27

#	Article	IF	Citations
109	DNA immobilization using biocompatible diblock phosphorylcholine copolymers. Surface and Interface Analysis, 2006, 38, 548-551.	0.8	14
110	Adsorption of polyethyleneimine characterized by spectroscopic ellipsometry. Progress in Natural Science: Materials International, 2005, 15, 56-59.	1.8	9
111	Surface-Induced Unfolding of Human Lactoferrin. Langmuir, 2005, 21, 3354-3361.	1.6	40
112	Solution pH-Regulated Interfacial Adsorption of Diblock Phosphorylcholine Copolymers. Langmuir, 2005, 21, 9597-9603.	1.6	29
113	Measurement of the sound transmission loss of circular and slit-shaped apertures in rigid walls of finite thickness by intensimetry. Journal of Sound and Vibration, 1993, 161, 119-135.	2.1	22