

# Songping Zhang

## List of Publications by Year in descending order

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110  
papers

3,294  
citations

136740

32  
h-index

168136

53  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of HPV58 type-specific antibodies and detection kit. <i>Preparative Biochemistry and Biotechnology</i> , 2023, 53, 223-229.	1.0	1
2	Development and characterization of anti-HPV16 monoclonal antibodies for assembly of an HPV16 detection kit. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 613-621.	1.4	2
3	Synergetic Enhancement of Mechanical Properties for Silk Fibers by a Green Feeding Approach with Nano-hydroxyapatite/collagen Composite Additive. <i>Journal of Natural Fibers</i> , 2022, 19, 5310-5320.	1.7	3
4	Preventive effect of swim bladder hydrolysates on cyclophosphamide-induced ovarian injury in mice. <i>Journal of Obstetrics and Gynaecology Research</i> , 2022, 48, 420-430.	0.6	3
5	Synthesis of red/black phosphorus-based composite nanosheets with a Z-scheme heterostructure for high-performance cancer phototherapy. <i>Nanoscale</i> , 2022, 14, 766-779.	2.8	9
6	Local Destruction of Tumors for Systemic Immunoresponse: Engineering Antigen-Capturing Nanoparticles as Stimulus-Responsive Immunoadjuvants. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4995-5008.	4.0	8
7	Quantitation of Collagen Type V in Tissues by High-Performance Liquid Chromatography Coupled to Mass Spectrometry. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 95-103.	1.1	1
8	Oil-in-ionic liquid nanoemulsion-based intranasal delivery system for influenza split-virus vaccine. <i>Journal of Controlled Release</i> , 2022, 346, 380-391.	4.8	9
9	Extraction and characterization of bovine collagen Type V and its effects on cell behaviors. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	1.9	5
10	Artificial photosynthesis systems for solar energy conversion and storage: platforms and their realities. <i>Chemical Society Reviews</i> , 2022, 51, 6704-6737.	18.7	52
11	Size exclusion chromatography using large pore size media induces adverse conformational changes of inactivated foot-and-mouth disease virus particles. <i>Journal of Chromatography A</i> , 2022, 1677, 463301.	1.8	2
12	Antimonene Nanosheets-Based Z-scheme Heterostructure with Enhanced Reactive Oxygen Species Generation and Photothermal Conversion Efficiency for Photonic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001835.	3.9	27
13	The potential of ionic liquids in biopharmaceutical engineering. <i>Chinese Journal of Chemical Engineering</i> , 2021, 30, 236-243.	1.7	9
14	On-line separation and quantification of virus antigens of different serotypes in multivalent vaccines by capillary zone electrophoresis: A case study for quality control of foot-and-mouth disease virus vaccines. <i>Journal of Chromatography A</i> , 2021, 1637, 461834.	1.8	11
15	Performance of agarose and gigaporous chromatographic media as function of pore-to-adsorbate size ratio over wide span from ovalbumin to virus like particles. <i>Journal of Chromatography A</i> , 2021, 1638, 461879.	1.8	8
16	Effect of pore structure on protein adsorption mechanism on ion exchange media: A preliminary study using low field nuclear magnetic resonance. <i>Journal of Chromatography A</i> , 2021, 1639, 461904.	1.8	2
17	A Possible Action of Divalent Transition Metal Ions at the Interpentameric Interface of Inactivated Foot-and-Mouth Disease Virus Provides a Simple but Effective Approach To Enhance Stability. <i>Journal of Virology</i> , 2021, 95, .	1.5	7
18	Apo ferritin nanoparticle based dual-antigen influenza conjugate vaccine with potential cross-protective efficacy against heterosubtypic influenza virus. <i>Particuology</i> , 2021, 64, 56-56.	2.0	2

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19	Molecular dynamics study on the stability of foot-and-mouth disease virus particle in salt solution. <i>Molecular Simulation</i> , 2021, 47, 1104-1111.	0.9	1
20	Granum-Inspired Photoenzyme-Coupled Catalytic System via Stacked Polymeric Carbon Nitride. <i>ACS Catalysis</i> , 2021, 11, 9210-9220.	5.5	8
21	Thermal-triggered packing of lipophilic NIR dye IR780 in hepatitis B core at critical ionic strength and cargo-host ratio for improved stability and enhanced cancer phototherapy. <i>Biomaterials</i> , 2021, 276, 121035.	5.7	25
22	Tumor microenvironment remodeling and tumor therapy based on M2-like tumor associated macrophage-targeting nano-complexes. <i>Theranostics</i> , 2021, 11, 2892-2916.	4.6	115
23	The Effect of Collagen Coating on Surface Biocompatibility of the Titanium Alloys. , 2021, , .		0
24	An antimonene/Cp*Rh(phen)Cl/black phosphorus hybrid nanosheet-based Z-scheme artificial photosynthesis for enhanced photo/bio-catalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 323-333.	5.2	71
25	Recovery of human serum albumin by dual-mode chromatography from the waste stream of Cohn fraction V supernatant. <i>Journal of Chromatography A</i> , 2020, 1630, 461451.	1.8	2
26	Positional assembly of multi-enzyme cascade reaction in polyelectrolyte doped microcapsule through electrospray and layer-by-layer assembly. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 206-213.	1.8	11
27	An Apoferritin-Hemagglutinin Conjugate Vaccine with Encapsulated Nucleoprotein Antigen Peptide from Influenza Virus Confers Enhanced Cross Protection. <i>Bioconjugate Chemistry</i> , 2020, 31, 1948-1959.	1.8	17
28	A biomimetic VLP influenza vaccine with interior NP/exterior M2e antigens constructed through a temperature shift-based encapsulation strategy. <i>Vaccine</i> , 2020, 38, 5987-5996.	1.7	16
29	Characterization and stabilization in process development and product formulation for super large proteinaceous particles. <i>Engineering in Life Sciences</i> , 2020, 20, 451-465.	2.0	10
30	Black phosphorus quantum dots encapsulated in anionic waterborne polyurethane nanoparticles for enhancing stability and reactive oxygen species generation for cancer PDT/PTT therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10650-10661.	2.9	20
31	A novel thrombin inhibitory peptide discovered from leech using affinity chromatography combined with ultra-high performance liquid chromatography-high resolution mass spectroscopy. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1151, 122153.	1.2	3
32	Iron nanoparticles augmented chemodynamic effect by alternative magnetic field for wound disinfection and healing. <i>Journal of Controlled Release</i> , 2020, 324, 598-609.	4.8	51
33	A Novel Particulate Delivery System Based on Antigen-Zn <sup>2+</sup> Coordination Interactions Enhances Stability and Cellular Immune Response of Inactivated Foot and Mouth Disease Virus. <i>Molecular Pharmaceutics</i> , 2020, 17, 2952-2963.	2.3	7
34	Mechanism of bio-macromolecule denaturation on solid-liquid surface of ion-exchange chromatographic media – A case study for inactivated foot-and-mouth disease virus. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1142, 122051.	1.2	7
35	Decellularized liver matrix-modified chitosan fibrous scaffold as a substrate for C3A hepatocyte culture. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1041-1056.	1.9	16
36	In-situ and sensitive stability study of emulsion and aluminum adjuvanted inactivated foot-and-mouth disease virus vaccine by differential scanning fluorimetry analysis. <i>Vaccine</i> , 2020, 38, 2904-2912.	1.7	10

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37	Biocompatible cationic solid lipid nanoparticles as adjuvants effectively improve humoral and T cell immune response of foot and mouth disease vaccines. <i>Vaccine</i> , 2020, 38, 2478-2486.	1.7	18
38	On-line monitoring of the sol-gel transition temperature of thermosensitive chitosan/ $\beta$ -glycerophosphate hydrogels by low field NMR. <i>Carbohydrate Polymers</i> , 2020, 238, 116196.	5.1	29
39	Boron-based nanosheets for combined cancer photothermal and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4609-4619.	2.9	22
40	Comparative evaluation of the physicochemical properties of nano-hydroxyapatite/collagen and natural bone ceramic/collagen scaffolds and their osteogenesis-promoting effect on MC3T3-E1 cells. <i>International Journal of Energy Production and Management</i> , 2019, 6, 361-371.	1.9	30
41	Unique stabilizing mechanism provided by biocompatible choline-based ionic liquids for inhibiting dissociation of inactivated foot-and-mouth disease virus particles. <i>RSC Advances</i> , 2019, 9, 13933-13939.	1.7	12
42	Crackled nanocapsules: the "imperfect" structure for enzyme immobilization. <i>Chemical Communications</i> , 2019, 55, 7155-7158.	2.2	14
43	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	2.3	1
44	Non-Magnetic Injectable Implant for Magnetic Field-Driven Thermochemotherapy and Dual Stimuli-Responsive Drug Delivery: Transformable Liquid Metal Hybrid Platform for Cancer Theranostics. <i>Small</i> , 2019, 15, e1900511.	5.2	65
45	Site-specific immobilization of lysozyme upon affinity chromatography resin by forecasting lysine activity and controlling pH and epoxy group density. <i>Journal of Chromatography A</i> , 2019, 1592, 192-196.	1.8	3
46	Effect of in vitro collagen fibrillogenesis on Langmuir-Blodgett (LB) deposition for cellular behavior regulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 48-55.	2.5	4
47	Multifunctional biomimetic nanoparticles loading baicalin for polarizing tumor-associated macrophages. <i>Nanoscale</i> , 2019, 11, 20206-20220.	2.8	55
48	Development of meningococcal polysaccharide conjugate vaccine that can elicit long-lasting and strong cellular immune response with hepatitis B core antigen virus-like particles as a novel carrier protein. <i>Vaccine</i> , 2019, 37, 956-964.	1.7	11
49	Polymeric Micelles Encapsulating a Small Molecule SO <sub>2</sub> Fluorescent Probe Exhibiting Novel Analytical Performance and Enhanced Cellular Imaging Ability. <i>ACS Applied Bio Materials</i> , 2019, 2, 236-242.	2.3	5
50	Artificial Photosynthesis: Porphyrin/SiO <sub>2</sub> /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870061.	7.8	1
51	Graphene Oxide and Polyelectrolyte Composed One-Way Expressway for Guiding Electron Transfer of Integrated Artificial Photosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3060-3069.	3.2	15
52	Porphyrin/SiO <sub>2</sub> /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis. <i>Advanced Functional Materials</i> , 2018, 28, 1705083.	7.8	45
53	Strong hydrophobicity enables efficient purification of HbC VLPs displaying various antigen epitopes through hydrophobic interaction chromatography. <i>Biochemical Engineering Journal</i> , 2018, 140, 157-167.	1.8	12
54	Enhanced Solar Energy Harvest and Electron Transfer through Intra- and Intermolecular Dual Channels in Chlorosome-Mimicking Supramolecular Self-Assemblies. <i>ACS Catalysis</i> , 2018, 8, 10732-10745.	5.5	26

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55	A two-step heat treatment of cell disruption supernatant enables efficient removal of host cell proteins before chromatographic purification of HBc particles. <i>Journal of Chromatography A</i> , 2018, 1581-1582, 71-79.	1.8	10
56	Sandwiching multiple dehydrogenases and shared cofactor between double polyelectrolytes for enhanced communication of cofactor and enzymes. <i>Biochemical Engineering Journal</i> , 2018, 137, 40-49.	1.8	10
57	Identification of <i>Ophiocordyceps sinensis</i> and Its Artificially Cultured <i>Ophiocordyceps</i> Mycelia by Ultra-Performance Liquid Chromatography/Orbitrap Fusion Mass Spectrometry and Chemometrics. <i>Molecules</i> , 2018, 23, 1013.	1.7	11
58	WS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite as an efficient heterojunction photocatalyst for biocatalyzed artificial photosynthesis. <i>RSC Advances</i> , 2018, 8, 20557-20567.	1.7	42
59	Construction of a stable w/o nano-emulsion as a potential adjuvant for foot and mouth disease virus vaccine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 897-906.	1.9	9
60	Integration of functionalized two-dimensional TaS <sub>2</sub> nanosheets and an electron mediator for more efficient biocatalyzed artificial photosynthesis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5511-5522.	5.2	38
61	Regulation of enzyme activity and stability through positional interaction with polyurethane nanofibers. <i>Biochemical Engineering Journal</i> , 2017, 121, 147-155.	1.8	13
62	Denaturation of inactivated FMDV in ion exchange chromatography: Evidence by differential scanning calorimetry analysis. <i>Biochemical Engineering Journal</i> , 2017, 124, 99-107.	1.8	14
63	Laccase immobilized on magnetic nanoparticles by dopamine polymerization for 4-chlorophenol removal. <i>Green Energy and Environment</i> , 2017, 2, 393-400.	4.7	33
64	Immobilization of native type I collagen on polypropylene fabrics as a substrate for HepG2 cell culture. <i>Journal of Biomaterials Applications</i> , 2017, 32, 93-103.	1.2	16
65	Stabilization study of inactivated foot and mouth disease virus vaccine by size-exclusion HPLC and differential scanning calorimetry. <i>Vaccine</i> , 2017, 35, 2413-2419.	1.7	23
66	Integration of Artificial Photosynthesis System for Enhanced Electronic Energy Transfer Efficacy: A Case Study for Solar Energy Driven Bioconversion of Carbon Dioxide to Methanol. <i>Small</i> , 2016, 12, 4753-4762.	5.2	70
67	Castor oil-based waterborne polyurethanes with tunable properties and excellent biocompatibility. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1512-1520.	1.0	39
68	Hybrid Cross-Linked Lipase Aggregates with Magnetic Nanoparticles: A Robust and Recyclable Biocatalysis for the Epoxidation of Oleic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7179-7187.	2.4	89
69	Purification design and practice for pertactin, the third component of acellular pertussis vaccine, from <i>Bordetella pertussis</i> . <i>Vaccine</i> , 2016, 34, 4032-4039.	1.7	10
70	TiO <sub>2</sub> –Horseradish Peroxidase Hybrid Catalyst Based on Hollow Nanofibers for Simultaneous Photochemical–Enzymatic Degradation of 2,4-Dichlorophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3634-3640.	3.2	27
71	UV-curable enzymatic antibacterial waterborne polyurethane coating. <i>Biochemical Engineering Journal</i> , 2016, 113, 107-113.	1.8	39
72	Enzymatic waterborne polyurethane towards a robust and environmentally friendly anti-biofouling coating. <i>RSC Advances</i> , 2016, 6, 31698-31704.	1.7	7

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73	Mask-Like Symmetrical Microclusters through a Diffusion-Limited Assembly Approach. <i>Chemistry - A European Journal</i> , 2015, 21, 10185-10190.	1.7	4
74	A hydrophobic interaction chromatography strategy for purification of inactivated foot-and-mouth disease virus. <i>Protein Expression and Purification</i> , 2015, 113, 23-29.	0.6	45
75	Size-exclusion HPLC provides a simple, rapid, and versatile alternative method for quality control of vaccines by characterizing the assembly of antigens. <i>Vaccine</i> , 2015, 33, 1143-1150.	1.7	58
76	Microcalorimetric study of adsorption and disassembling of virus-like particles on anion exchange chromatography media. <i>Journal of Chromatography A</i> , 2015, 1388, 195-206.	1.8	19
77	Adsorption of virus-like particles on ion exchange surface: Conformational changes at different pH detected by dual polarization interferometry. <i>Journal of Chromatography A</i> , 2015, 1408, 161-168.	1.8	14
78	Selection of downstream steps by analysis of protein surface property: A case study for recombinant human lactoferrin purification from milk of transgenic cow. <i>Process Biochemistry</i> , 2015, 50, 1441-1448.	1.8	6
79	Tethering of Nicotinamide Adenine Dinucleotide Inside Hollow Nanofibers for High-Yield Synthesis of Methanol from Carbon Dioxide Catalyzed by Coencapsulated Multienzymes. <i>ACS Nano</i> , 2015, 9, 4600-4610.	7.3	142
80	Purification and characterization of a novel glycoprotein from <i>Streptomyces</i> sp. ZX01. <i>International Journal of Biological Macromolecules</i> , 2015, 78, 195-201.	3.6	34
81	Stereoselective assembly of amino acid-based metal-biomolecule nanofibers. <i>Chemical Communications</i> , 2015, 51, 6329-6332.	2.2	21
82	Preparation and characterization of epoxidized soybean oil-based paper composite as potential water-resistant materials. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	15
83	High catalytic activity of immobilized laccase on core-shell magnetic nanoparticles by dopamine self-polymerization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 112, 15-24.	1.8	47
84	Interaction of arginine with protein during refolding process probed by amide H/D exchange mass spectrometry and isothermal titration calorimetry. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 39-45.	1.1	2
85	Vegetable-oil-based polymers as future polymeric biomaterials. <i>Acta Biomaterialia</i> , 2014, 10, 1692-1704.	4.1	452
86	Improving stability of virus-like particles by ion-exchange chromatographic supports with large pore size: Advantages of gigaporous media beyond enhanced binding capacity. <i>Journal of Chromatography A</i> , 2014, 1331, 69-79.	1.8	41
87	Synthesis, characterization and adsorption performance of molecularly imprinted nanoparticles for tripterine by precipitation polymerization. <i>Analytical Methods</i> , 2014, 6, 684-689.	1.3	6
88	Polyelectrolyte Doped Hollow Nanofibers for Positional Assembly of Bienzyme System for Cascade Reaction at O/W Interface. <i>ACS Catalysis</i> , 2014, 4, 4548-4559.	5.5	35
89	Ready-to-use hollow nanofiber membrane-based glucose testing strips. <i>Analyst</i> , The, 2014, 139, 6467-6473.	1.7	41
90	Enabling multi-enzyme biocatalysis using coaxial-electrospun hollow nanofibers: redesign of artificial cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 181-190.	2.9	64

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91	Extraction, purification and antioxidant activities of the polysaccharides from maca ( <i>Lepidium</i> ) Tj ETQq1 1 0.784314 5.1rgBT /Overlock 107	1.0	110
92	Synthesis of bio-based polyurethanes from epoxidized soybean oil and isopropanolamine. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1929-1936.	1.3	70
93	Magnetic field intensified bi-enzyme system with in situ cofactor regeneration supported by magnetic nanoparticles. <i>Journal of Biotechnology</i> , 2013, 168, 212-217.	1.9	33
94	Soybean Oil-based Polyurethane Networks: Shape-Memory Effects and Surface Morphologies. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1415-1421.	0.8	33
95	Soybean oil-based shape-memory polyurethanes: Synthesis and characterization. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1345-1351.	1.0	28
96	Soybean oil-based polyurethane networks as candidate biomaterials: Synthesis and biocompatibility. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1165-1174.	1.0	86
97	Immobilization of glycerol dehydrogenase on magnetic silica nanoparticles for conversion of glycerol to value-added 1,3-dihydroxyacetone. <i>Biocatalysis and Biotransformation</i> , 2011, 29, 278-287.	1.1	19
98	Facile purification and characterization of recombinant human antithrombin III from transgenic goat milk. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 1303-1309.	1.6	0
99	Effect of molecular mobility on coupled enzymatic reactions involving cofactor regeneration using nanoparticle-attached enzymes. <i>Journal of Biotechnology</i> , 2011, 154, 274-280.	1.9	39
100	Efficient separation of homologous $\hat{\iota}$ -lactalbumin from transgenic bovine milk using optimized hydrophobic interaction chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 3668-3673.	1.8	14
101	A novel vegetable oil-lactate hybrid monomer for synthesis of high- $T_g$ polyurethanes. <i>Journal of Polymer Science Part A</i> , 2010, 48, 243-250.	2.5	76
102	Chemoenzymatic synthesis of oleic acid-based polyesters for use as highly stable biomaterials. <i>Journal of Polymer Science Part A</i> , 2008, 46, 4243-4248.	2.5	39
103	A Model for the Salt Effect on Adsorption Equilibrium of Basic Protein to Dye-Ligand Affinity Adsorbent. <i>Biotechnology Progress</i> , 2008, 20, 207-214.	1.3	18
104	Quantitative Detection of Isoflavones in the Extract of Red Clover by HPLC/ESI-MS. , 2007, , 101-108.		0
105	Mass spectrometric analysis of enzymatic digestion of denatured collagen for identification of collagen type. <i>Journal of Chromatography A</i> , 2006, 1114, 274-277.	1.8	30
106	Ethylene glycol diglycidyl ether as a protein cross-linker: a case study for cross-linking of hemoglobin. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 767-775.	1.6	26
107	Steric mass-action model for dye-ligand affinity adsorption of protein. <i>Journal of Chromatography A</i> , 2002, 957, 89-97.	1.8	27
108	Study on protein adsorption kinetics to a dye-ligand adsorbent by the pore diffusion model. <i>Journal of Chromatography A</i> , 2002, 964, 35-46.	1.8	48

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109	Study on protein adsorption kinetics to a dye-ligand adsorbent by the pore diffusion model. Journal of Chromatography A, 2002, 964, 35-46.	1.8	1
110	Further studies on the contribution of electrostatic and hydrophobic interactions to protein adsorption on dye-ligand adsorbents. Biotechnology and Bioengineering, 2001, 75, 710-717.	1.7	67