

# Lei Fang

## List of Publications by Year in descending order

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64  
papers

1,688  
citations

201674

27  
h-index

315739

38  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Preparation, and Characterization of High-Activity Mutants of Human Butyrylcholinesterase Specific for Detoxification of Cocaine. <i>Molecular Pharmacology</i> , 2011, 79, 290-297.	2.3	81
2	Characterization of a high-activity mutant of human butyrylcholinesterase against ( $\alpha^7$ )-cocaine. <i>Chemico-Biological Interactions</i> , 2010, 187, 148-152.	4.0	62
3	Pharmacophore Modeling Using Site-Identification by Ligand Competitive Saturation (SILCS) with Multiple Probe Molecules. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 407-420.	5.4	62
4	Design, synthesis and biological evaluation of D-ring opened galantamine analogs as multifunctional anti-Alzheimer agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 76, 376-386.	5.5	59
5	Biotin-Pt (IV)-indomethacin hybrid: A targeting anticancer prodrug providing enhanced cancer cellular uptake and reversing cisplatin resistance. <i>Journal of Inorganic Biochemistry</i> , 2017, 175, 47-57.	3.5	58
6	Active Site Gating and Substrate Specificity of Butyrylcholinesterase and Acetylcholinesterase: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8797-8805.	2.6	52
7	Multifunctional carboxymethyl chitosan derivatives-layered double hydroxide hybrid nanocomposites for efficient drug delivery to the posterior segment of the eye. <i>Acta Biomaterialia</i> , 2020, 104, 104-114.	8.3	52
8	Combination of Amino Acid/Dipeptide with Nitric Oxide Donating Oleanolic Acid Derivatives as PepT1 Targeting Antitumor Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1116-1120.	6.4	51
9	Design, synthesis and anti-Alzheimer properties of dimethylaminomethyl-substituted curcumin derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 40-43.	2.2	49
10	Study on Antitumor Platinum(II) Complexes of Chiral Diamines with Dicyclic Species as Steric Hindrance. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6368-6377.	6.4	49
11	Mapping Functional Group Free Energy Patterns at Protein Occluded Sites: Nuclear Receptors and G-Protein Coupled Receptors. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 700-708.	5.4	48
12	Reaction Pathway and Free Energy Profile for Butyrylcholinesterase-Catalyzed Hydrolysis of Acetylcholine. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1315-1322.	2.6	47
13	Iridium(III) Complex-Derived Polymeric Micelles with Low Dark Toxicity and Strong NIR Excitation for Phototherapy and Chemotherapy. <i>Small</i> , 2020, 16, e2000363.	10.0	47
14	Construction of Dual Stimuli-Responsive Platinum(IV) Hybrids with NQO1 Targeting Ability and Overcoming Cisplatin Resistance. <i>Inorganic Chemistry</i> , 2019, 58, 2191-2200.	4.0	45
15	Conjugation of platinum(IV) complexes with chlorambucil to overcome cisplatin resistance via a $\alpha$ -joint action-mode toward DNA. <i>European Journal of Medicinal Chemistry</i> , 2017, 137, 167-175.	5.5	43
16	Design, synthesis and biological evaluation of multifunctional tacrine-curcumin hybrids as new cholinesterase inhibitors with metal ions-chelating and neuroprotective property. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2387-2398.	3.0	39
17	Metal-directed one-dimensional chiral zigzag chains and right-handed 61 helix with multiple chiral components: luminescence and NLO properties. <i>CrystEngComm</i> , 2012, 14, 3888.	2.6	38
18	Functional intercalated nanocomposites with chitosan-glutathione-glycylsarcosine and layered double hydroxides for topical ocular drug delivery. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 917-937.	6.7	38

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19	Rational Design, Preparation, and Characterization of a Therapeutic Enzyme Mutant with Improved Stability and Function for Cocaine Detoxification. <i>ACS Chemical Biology</i> , 2014, 9, 1764-1772.	3.4	37
20	Fundamental Reaction Pathway for Peptide Metabolism by Proteasome: Insights from First-Principles Quantum Mechanical/Molecular Mechanical Free Energy Calculations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13418-13434.	2.6	36
21	Reaction Pathway and Free Energy Profiles for Butyrylcholinesterase-Catalyzed Hydrolysis of Acetylthiocholine. <i>Biochemistry</i> , 2012, 51, 1297-1305.	2.5	34
22	Ferulic acid- $\alpha$ -carbazole hybrid compounds: Combination of cholinesterase inhibition, antioxidant and neuroprotection as multifunctional anti-Alzheimer agents. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 886-893.	3.0	34
23	Current Progresses of Novel Natural Products and Their Derivatives/ Analogs as Anti-Alzheimer Candidates: an Update. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 870-887.	2.4	34
24	Preparation and <i>in vivo</i> characterization of a cocaine hydrolase engineered from human butyrylcholinesterase for metabolizing cocaine. <i>Biochemical Journal</i> , 2013, 453, 447-454.	3.7	33
25	Multifunctional Nanocomposites Based on Liposomes and Layered Double Hydroxides Conjugated with Glycylsarcosine for Efficient Topical Drug Delivery to the Posterior Segment of the Eye. <i>Molecular Pharmaceutics</i> , 2019, 16, 2845-2857.	4.6	33
26	Substrate selectivity of high-activity mutants of human butyrylcholinesterase. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7477.	2.8	31
27	Two temperature-controlled chiral Ag(I) coordination polymers with dual chiral components: synthesis, luminescence and SHG properties. <i>CrystEngComm</i> , 2012, 14, 4437.	2.6	27
28	Novel platinum(IV) complexes conjugated with a wogonin derivative as multi-targeted anticancer agents. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2507-2517.	3.0	26
29	Studies of the Mechanism of Selectivity of Protein Tyrosine Phosphatase 1B (PTP1B) Bidentate Inhibitors Using Molecular Dynamics Simulations and Free Energy Calculations. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 2030-2041.	5.4	25
30	Design and synthesis of Lapatinib derivatives containing a branched side chain as HER1/HER2 targeting antitumor drug candidates. <i>European Journal of Medicinal Chemistry</i> , 2014, 87, 631-642.	5.5	25
31	Free Energy Perturbation Simulation on Transition States and High-Activity Mutants of Human Butyrylcholinesterase for $\alpha$ -Cocaine Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10889-10896.	2.6	23
32	ROS-responsive and multifunctional anti-Alzheimer prodrugs: Tacrine-ibuprofen hybrids via a phenyl boronate linker. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 112997.	5.5	23
33	Temperature-induced chiral Ag(I) coordination polymers with structural variation from 1D to 2D: synthesis, luminescence and SHG response. <i>CrystEngComm</i> , 2012, 14, 7502.	2.6	22
34	Influence of Sugar Amine Regiochemistry on Digitoxigenin Neoglycoside Anticancer Activity. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1053-1058.	2.8	21
35	Oleanolic acid-NO donor-platinum(II) trihybrid molecules: Targeting cytotoxicity on hepatoma cells with combined action mode and good safety. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4611-4619.	3.0	21
36	Platinum(II) complexes with N-monoalkyl 1R,2R-diaminocyclohexane derivatives as carrier ligands and 3-hydroxycyclobutane-1,1-dicarboxylate as a leaving group: Potent cytotoxicity and DNA binding ability. <i>European Journal of Medicinal Chemistry</i> , 2013, 69, 842-847.	5.5	19

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37	Novel Dual Mitochondrial and CD44 Receptor Targeting Nanoparticles for Redox Stimuli-Triggered Release. <i>Nanoscale Research Letters</i> , 2018, 13, 32.	5.7	18
38	Targeting RAS-RAF pathway significantly improves antitumor activity of Rigosertib-derived platinum(IV) complexes and overcomes cisplatin resistance. <i>European Journal of Medicinal Chemistry</i> , 2020, 194, 112269.	5.5	18
39	Multifunctional nanocomposite eye drops of cyclodextrin complex@layered double hydroxides for relay drug delivery to the posterior segment of the eye. <i>Carbohydrate Polymers</i> , 2021, 260, 117800.	10.2	17
40	Catalytic activities of a cocaine hydrolase engineered from human butyrylcholinesterase against (+)- and (âˆ’)-cocaine. <i>Chemico-Biological Interactions</i> , 2013, 203, 57-62.	4.0	16
41	Toward overcoming cisplatin resistance via sterically hindered platinum(II) complexes. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 141-152.	5.5	15
42	Nitric oxide-releasing micelles with intelligent targeting for enhanced anti-tumor effect of cisplatin in hypoxia. <i>Journal of Nanobiotechnology</i> , 2021, 19, 246.	9.1	15
43	An Effective Supramolecular Approach to Boost the Photodynamic Therapy Efficacy of a Near-Infrared Activating Perylene Diimide-Based Photosensitizer. , 2022, 4, 657-664.		15
44	Amino-acid mutations to extend the biological half-life of a therapeutically valuable mutant of human butyrylcholinesterase. <i>Chemico-Biological Interactions</i> , 2014, 214, 18-25.	4.0	14
45	A 3-D lanthanide coordination polymer constructed from biphenyl-2,2â€²,6,6â€²-tetracarboxylic acid: synthesis of a trinodal (3,4,5)-connected topology and luminescence. <i>Journal of Coordination Chemistry</i> , 2013, 66, 481-489.	2.2	13
46	Synthesis and biological evaluation of new [1,2,4]triazolo[4,3-a]pyridine derivatives as potential c-Met inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3483-3493.	3.0	13
47	Design, Synthesis, and Biological Features of Platinum(II) Complexes with Rigid Steric Hindrance. <i>Inorganic Chemistry</i> , 2016, 55, 4519-4528.	4.0	10
48	Novel proteinâ€“inhibitor interactions in site 3 of Ca <sup>2+</sup> -bound S100B as discovered by X-ray crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 753-760.	2.3	10
49	Design and synthesis of alkyl substituted pyridino[2,3-D]pyrimidine compounds as PI3K/mTOR dual inhibitors with improved pharmacokinetic properties and potent in vivo antitumor activity. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3992-4000.	3.0	10
50	Rational design of mixed nanomicelle eye drops with structural integrity investigation. <i>Acta Biomaterialia</i> , 2022, 141, 164-177.	8.3	10
51	Temperature-induced one-dimensional chiral Ag(I) linear chains and left-handed 21 helices: DFT studies, luminescence and SHG response. <i>CrystEngComm</i> , 2014, 16, 10056-10065.	2.6	9
52	Synthesis, cytotoxicity, and interaction with DNA of platinum(II) complexes of (1R,2R)-N1-2-amyl-1,2-diaminocyclohexane. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1653-1662.	2.2	8
53	Protection function of 18Î²-glycyrrhetic acid on rats with high-altitude pulmonary hypertension based on 1H NMR metabonomics technology. <i>Analytical Biochemistry</i> , 2021, 631, 114342.	2.4	8
54	A model of glycosylated human butyrylcholinesterase. <i>Molecular BioSystems</i> , 2014, 10, 348-354.	2.9	7

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55	Unexpected protonation state of Glu197 discovered from simulations of tacrine in butyrylcholinesterase. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14938-14946.	2.8	7
56	Towards Development of Small Molecule Lipid II Inhibitors as Novel Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0164515.	2.5	7
57	Determination of esmolol and metabolite enantiomers within human plasma using chiral column chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 2449-2452.	2.3	6
58	Structural modifications on indole and pyrimidine rings of osimertinib lead to high selectivity towards L858R/T790M double mutant enzyme and potent antitumor activity. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 36, 116094.	3.0	5
59	Microscopic binding of butyrylcholinesterase with quinazolinimine derivatives and the structure-activity correlation. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 69-82.	1.4	4
60	Synthesis and biological evaluation of water-soluble trans-[bicyclo[2.2.2]octane-7R,8R-diamine]platinum(II) complexes with linear or branched alkoxyacetates as leaving groups. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1284-1292.	2.2	4
61	Insight into the antitumor actions of sterically hindered platinum(ii) complexes by a combination of STD NMR and LCMS techniques. <i>Metallomics</i> , 2020, 12, 427-434.	2.4	3
62	PEGylation but Not Fc-Fusion Improves in Vivo Residence Time of a Thermostable Mutant of Bacterial Cocaine Esterase. <i>Bioconjugate Chemistry</i> , 2019, 30, 3021-3027.	3.6	2
63	(3aR*,7aS*)-1-(p-Tolylsulfonyl)perhydroindol-2-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o1109-o1109.	0.2	0
64	Novel [1,2,4] Triazol [4,3-a] Pyridine Derivatives as Potential Selective c-Met Inhibitors with Improved Pharmacokinetic Properties. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2017, 17, 1102-1112.	1.7	0