

Xiaoguang Lei

List of Publications by Year in descending order

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107
papers

5,412
citations

117625

34
h-index

91884

69
g-index

118
all docs

118
docs citations

118
times ranked

7428
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing the polar auxin transport model with a selective plasma membrane H ⁺ -ATPase inhibitor. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1229-1245.	8.5	7
2	Polycarcin V induces DNA-damage response and enables the profiling of DNA-binding proteins. <i>National Science Review</i> , 2022, 9, .	9.5	1
3	Characterization of protein unfolding by fast cross-linking mass spectrometry using di-ortho-phthalaldehyde cross-linkers. <i>Nature Communications</i> , 2022, 13, 1468.	12.8	20
4	Tuning an Imine Reductase for the Asymmetric Synthesis of Azacycloalkylamines by Concise Structure-Guided Engineering. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	16
5	A small-molecule cocktail promotes mammalian cardiomyocyte proliferation and heart regeneration. <i>Cell Stem Cell</i> , 2022, 29, 545-558.e13.	11.1	32
6	Novel CaMKII- δ Inhibitor Hesperadin Exerts Dual Functions to Ameliorate Cardiac Ischemia/Reperfusion Injury and Inhibit Tumor Growth. <i>Circulation</i> , 2022, 145, 1154-1168.	1.6	30
7	Selective inhibition reveals the regulatory function of DYRK2 in protein synthesis and calcium entry. <i>ELife</i> , 2022, 11, .	6.0	8
8	Enzymatic intermolecular Diels-Alder reactions in synthesis: From nature to design. , 2022, 2, 100013.		5
9	Perturbation of biological processes with small molecule kinase inhibitors. <i>Current Opinion in Chemical Biology</i> , 2022, 70, 102185.	6.1	1
10	Function-Oriented Natural Product Synthesis. <i>Chinese Journal of Chemistry</i> , 2021, 39, 838-854.	4.9	7
11	Biosynthetic Intermediate Probes for Visualizing and Identifying the Biosynthetic Enzymes of Plant Metabolites. <i>ChemBioChem</i> , 2021, 22, 982-984.	2.6	2
12	Structure-guided optimization of D-captopril for discovery of potent NDM-1 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115902.	3.0	14
13	Click-ExM enables expansion microscopy for all biomolecules. <i>Nature Methods</i> , 2021, 18, 107-113.	19.0	91
14	Human Endogenous Natural Products. <i>Progress in the Chemistry of Organic Natural Products</i> , 2021, 114, 313-337.	1.1	0
15	Concise total synthesis of nauclefine: A regioselective Rhodium(III)-catalyzed oxidative C-H activation approach. <i>Tetrahedron</i> , 2021, 87, 132120.	1.9	4
16	Stereoselective synthesis of the C16-C25 fragment of alchivemycins A and B. <i>Tetrahedron Letters</i> , 2021, 74, 153156.	1.4	1
17	Dynamic changes of phosphatidylinositol and phosphatidylinositol 4-phosphate levels modulate H ⁺ -ATPase and Na ⁺ /H ⁺ antiporter activities to maintain ion homeostasis in Arabidopsis under salt stress. <i>Molecular Plant</i> , 2021, 14, 2000-2014.	8.3	33
18	A Pseudopaline Fluorescent Probe for the Selective Detection of <i>Pseudomonas aeruginosa</i> . <i>CCS Chemistry</i> , 2021, 3, 2405-2417.	7.8	6

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19	Click-based amplification: designed to facilitate various target labelling modes with ultralow background amplification. <i>RSC Chemical Biology</i> , 2021, 2, 906-916.	4.1	0
20	Enzymatic control of endo- and exo-stereoselective Diels-Alder reactions with broad substrate scope. <i>Nature Catalysis</i> , 2021, 4, 1059-1069.	34.4	26
21	Styryllactones from <i>Goniiothalamus tamirensis</i> . <i>Phytochemistry</i> , 2020, 171, 112248.	2.9	8
22	Biomimetic Synthesis of Rhytidenone...A and Mode of Action of Cytotoxic Rhytidenone...F. <i>Angewandte Chemie</i> , 2020, 132, 4144-4149.	2.0	1
23	Biomimetic Synthesis of Rhytidenone...A and Mode of Action of Cytotoxic Rhytidenone...F. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4115-4120.	13.8	11
24	Evaluation of chemical cross-linkers for in-depth structural analysis of G protein-coupled receptors through cross-linking mass spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1102, 53-62.	5.4	7
25	Chemoenzymatic Total Syntheses of Artonin I with an Intermolecular Diels-Alderase. <i>Biotechnology Journal</i> , 2020, 15, 2000119.	3.5	12
26	Syntheses of Skeletally Diverse Tetracyclic <i>Isodon</i> Diterpenoid Scaffolds Guided by Dienyne Radical Cyclization Logic. <i>Organic Letters</i> , 2020, 22, 7991-7996.	4.6	6
27	New Strategies in the Efficient Total Syntheses of Polycyclic Natural Products. <i>Accounts of Chemical Research</i> , 2020, 53, 2569-2586.	15.6	33
28	Chemical screening identifies ROCK1 as a regulator of migrasome formation. <i>Cell Discovery</i> , 2020, 6, 51.	6.7	14
29	Chrysomycin A Derivatives for the Treatment of Multi-Drug-Resistant Tuberculosis. <i>ACS Central Science</i> , 2020, 6, 928-938.	11.3	43
30	Identification of the AMA Synthase from the <i>Aspergillum</i> marasmiine A Biosynthesis and Evaluation of Its Biocatalytic Potential. <i>ACS Catalysis</i> , 2020, 10, 6291-6298.	11.2	12
31	Inhibition of PU.1 ameliorates metabolic dysfunction and non-alcoholic steatohepatitis. <i>Journal of Hepatology</i> , 2020, 73, 361-370.	3.7	24
32	Protecting-Group-Free Syntheses of <i>ent</i> -Kaurane Diterpenoids: [3+2+1] Cycloaddition/Cycloalkenylation Approach. <i>Journal of the American Chemical Society</i> , 2020, 142, 2238-2243.	13.7	32
33	An <i>Arabidopsis</i> Secondary Metabolite Directly Targets Expression of the Bacterial Type III Secretion System to Inhibit Bacterial Virulence. <i>Cell Host and Microbe</i> , 2020, 27, 601-613.e7.	11.0	66
34	Computation-Guided Development of the α -Click-ortho-Quinone Methide Cycloaddition with Improved Kinetics. <i>Organic Letters</i> , 2020, 22, 2920-2924.	4.6	4
35	Late-Stage Diversification of Natural Products. <i>ACS Central Science</i> , 2020, 6, 622-635.	11.3	203
36	Dissecting Programmed Cell Death with Small Molecules. <i>Accounts of Chemical Research</i> , 2020, 53, 1034-1045.	15.6	28

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37	FAD-dependent enzyme-catalysed intermolecular [4+2] cycloaddition in natural product biosynthesis. <i>Nature Chemistry</i> , 2020, 12, 620-628.	13.6	97
38	Editorial overview: Recent advance in chemical genetics and chemical epigenetics. <i>Current Opinion in Chemical Biology</i> , 2019, 51, A1-A3.	6.1	0
39	Improving mass spectrometry analysis of protein structures with arginine-selective chemical cross-linkers. <i>Nature Communications</i> , 2019, 10, 3911.	12.8	45
40	Total synthesis of (±)-antroquinonol. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1754-1757.	2.8	3
41	<i>De novo</i> synthesis, structural assignment and biological evaluation of pseudopaline, a metallophore produced by <i>Pseudomonas aeruginosa</i> . <i>Chemical Science</i> , 2019, 10, 6635-6641.	7.4	22
42	Divergent Total Synthesis of Chaetoglins C to F. <i>Journal of Organic Chemistry</i> , 2019, 84, 8766-8770.	3.2	12
43	Enantioselective Total Synthesis of (+)-Jungermatrobrunin. <i>Angewandte Chemie</i> , 2019, 131, 10995-10999.	2.0	15
44	Enantioselective Total Synthesis of (+)-Jungermatrobrunin. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10879-10883.	13.8	42
45	Photoinduced Skeletal Rearrangements Reveal Radical-Mediated Synthesis of Terpenoids. <i>CHEM</i> , 2019, 5, 1671-1681.	11.7	47
46	Development of an effective fluorescence probe for discovery of aminopeptidase inhibitors to suppress biofilm formation. <i>Journal of Antibiotics</i> , 2019, 72, 461-468.	2.0	3
47	Staphylopine and pseudopaline dehydrogenase from bacterial pathogens catalyze reversible reactions and produce stereospecific metallophores. <i>Journal of Biological Chemistry</i> , 2019, 294, 17988-18001.	3.4	9
48	Inhibition of dual-specificity tyrosine phosphorylation-regulated kinase 2 perturbs 26S proteasome-addicted neoplastic progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24881-24891.	7.1	39
49	Enzymatic Formation of a Skipped Methyl-Substituted Octaprenyl Side Chain of Longestin (KS505a): Involvement of Homo-IPP as a Common Extender Unit. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6629-6632.	13.8	27
50	Recent applications of C-H functionalization in complex molecule synthesis. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 11, 9-14.	5.9	18
51	Jungermannenone C Triggers Reactive Oxygen Species-Dependent Cell Differentiation in Leukemia Cells. <i>Journal of Natural Products</i> , 2018, 81, 298-306.	3.0	7
52	Identification of novel sesterterpenes by genome mining of phytopathogenic fungi <i>Phoma</i> and <i>Colletotrichum</i> sp.. <i>Tetrahedron Letters</i> , 2018, 59, 1136-1139.	1.4	17
53	Bioorthogonal Metabolic DNA Labelling using Vinyl Thioether-Modified Thymidine and Quinolinone Quinone Methide. <i>Chemistry - A European Journal</i> , 2018, 24, 5895-5900.	3.3	15
54	Fawcettimine-Type <i>Lycopodium</i> Alkaloids as a Driving Force for Discoveries in Organic Synthesis. <i>Chemical Record</i> , 2018, 18, 543-554.	5.8	8

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55	Carboxylate-Selective Chemical Cross-Linkers for Mass Spectrometric Analysis of Protein Structures. <i>Analytical Chemistry</i> , 2018, 90, 1195-1201.	6.5	42
56	Small molecules capable of activating DNA methylationâ€“repressed genes targeted by the p38 mitogen-activated protein kinase pathway. <i>Journal of Biological Chemistry</i> , 2018, 293, 7423-7436.	3.4	10
57	Synthesis and Evaluation of a New Type of Small Molecule Epigenetic Modulator Containing Imidazo[1,2-b][1,2,4]triazole Motif. <i>Frontiers in Chemistry</i> , 2018, 6, 642.	3.6	3
58	Chemoproteomic Profiling Reveals Ethacrynic Acid Targets Adenine Nucleotide Translocases to Impair Mitochondrial Function. <i>Molecular Pharmaceutics</i> , 2018, 15, 2413-2422.	4.6	10
59	T-ALL leukemia stem cell 'stemness' is epigenetically controlled by the master regulator SPI1. <i>ELife</i> , 2018, 7, .	6.0	32
60	Identification of spirobisnaphthalene derivatives with anti-tumor activities from the endophytic fungus <i>Rhytidhysterium rufulum</i> AS21B. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2878-2882.	3.0	41
61	Chemoproteomic Profiling of Bile Acid Interacting Proteins. <i>ACS Central Science</i> , 2017, 3, 501-509.	11.3	62
62	Divergent Total Syntheses of (âˆ“)â€“Huperzineâ€“Q, (+)â€“Lycopladineâ€“B, (+)â€“Lycopladineâ€“C, and (âˆ“)â€“Lycopladineâ€“D. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1557-1567.	3.3	15
63	Small molecule enabled chemical biology and drug discovery. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2815-2816.	3.0	3
64	Covalent Probe Finds Carboxylic Acid. <i>Cell Chemical Biology</i> , 2017, 24, 537-539.	5.2	7
65	Synthesis and biological evaluation of Aspergillomarasmine A derivatives as novel NDM-1 inhibitor to overcome antibiotics resistance. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5133-5141.	3.0	41
66	Focused Genome Mining of Structurally Related Sesterterpenes: Enzymatic Formation of Enantiomeric and Diastereomeric Products. <i>Organic Letters</i> , 2017, 19, 6696-6699.	4.6	48
67	Total Syntheses of Natural Metallophores Staphylopin and Aspergillomarasmine A. <i>Journal of Organic Chemistry</i> , 2017, 82, 13643-13648.	3.2	27
68	Trifunctional cross-linker for mapping protein-protein interaction networks and comparing protein conformational states. <i>ELife</i> , 2016, 5, .	6.0	105
69	Total Synthesis and Structural Reassignment of Aspergillomarasmineâ€“A. <i>Angewandte Chemie</i> , 2016, 128, 4363-4367.	2.0	6
70	Total Synthesis and Structural Reassignment of Aspergillomarasmineâ€“A. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4291-4295.	13.8	40
71	Scalable Total Synthesis of <i>rac</i> -Jungermannonesâ€“B and C. <i>Angewandte Chemie</i> , 2016, 128, 3164-3168.	2.0	16
72	Pterisolic Acid B is a Nrf2 Activator by Targeting C171 within Keap1-BTB Domain. <i>Scientific Reports</i> , 2016, 6, 19231.	3.3	10

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73	Syntheses of [1,2,4]triazolo[1,5-a]benzazoles enabled by the transition-metal-free oxidative N=N bond formation. <i>Chemical Communications</i> , 2016, 52, 7028-7031.	4.1	12
74	Recent advances in target identification by natural product based chemical probes. <i>Science China Chemistry</i> , 2016, 59, 1088-1092.	8.2	5
75	Exploring the Binding Proteins of Glycolipids with Bifunctional Chemical Probes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14330-14334.	13.8	20
76	Scalable Total Synthesis of (-)-Jungermannenones B and C. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3112-3116.	13.8	45
77	Natural Product Kongensin A is a Non-Canonical HSP90 Inhibitor that Blocks RIP3-dependent Necroptosis. <i>Cell Chemical Biology</i> , 2016, 23, 257-266.	5.2	85
78	Enantioselective Total Syntheses of Kuwanon X, Kuwanon Y, and Kuwanol A. <i>Organic Letters</i> , 2016, 18, 360-363.	4.6	34
79	Chiral Boron Complex-Promoted Asymmetric Diels-Alder Cycloaddition and Its Application in Natural Product Synthesis. <i>Journal of Organic Chemistry</i> , 2016, 81, 458-468.	3.2	32
80	Access to the 2-H-Tetrahydro-4,6-dioxo-1,2-oxazine Ring System from Nitron via a Tandem Nucleophilic Addition and Transesterification Reaction. <i>Organic Letters</i> , 2016, 18, 376-379.	4.6	14
81	Studies towards the synthesis of the functionalized C3-C14 decalin framework of alchivemycin A. <i>Organic Chemistry Frontiers</i> , 2016, 3, 251-258.	4.5	9
82	Synthesis and mode of action of oligomeric sesquiterpene lactones. <i>Natural Product Reports</i> , 2016, 33, 602-611.	10.3	21
83	Using Small Molecules to Dissect Non-apoptotic Programmed Cell Death: Necroptosis, Ferroptosis, and Pyroptosis. <i>ChemBioChem</i> , 2015, 16, 2557-2561.	2.6	50
84	No Significant Increase in the β -4- and β -7-Dafachronic Acid Concentration in the Long-Lived <i>glp-1</i> Mutant, nor in the Mutants Defective in Dauer Formation. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 1473-1479.	1.8	4
85	Second Generation TQ-Ligation for Cell Organelle Imaging. <i>ACS Chemical Biology</i> , 2015, 10, 1676-1683.	3.4	25
86	Ainsliadimer A selectively inhibits $IKK\alpha/\beta$ by covalently binding a conserved cysteine. <i>Nature Communications</i> , 2015, 6, 6522.	12.8	92
87	Recent Advances in the Total Synthesis of Prenylflavonoid and Related Diels-Alder Natural Products. <i>Synthesis</i> , 2015, 47, 1519-1533.	2.3	32
88	Enantioselective Total Synthesis of (-)-Incarviate A. <i>Journal of the American Chemical Society</i> , 2015, 137, 11946-11949.	13.7	78
89	Total Syntheses of (-)-Huperzine Q and (+)-Lycopladines B and C. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1011-1015.	13.8	52
90	Advanced in the Synthesis of Kaurane Diterpenoids. <i>Chinese Journal of Organic Chemistry</i> , 2015, 35, 2447.	1.3	24

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91	Ortho-Quinone Methide Finds Its Application in Bioorthogonal Ligation. <i>Current Organic Chemistry</i> , 2014, 18, 86-92.	1.6	32
92	Diversity-oriented synthesis of Lycopodium alkaloids inspired by the hidden functional group pairing pattern. <i>Nature Communications</i> , 2014, 5, 4614.	12.8	52
93	Probing the Anticancer Mechanism of (âˆ“)â€Ainsliatrimera through Diverted Total Synthesis and Bioorthogonal Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12111-12115.	13.8	34
94	Enantioselective Biomimetic Total Syntheses of Kuwanonsâ€I and J and Brosimonesâ€A and B. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9257-9261.	13.8	39
95	Small-molecule activation of the TRAIL receptor DR5 in human cancer cells. <i>Nature Chemical Biology</i> , 2013, 9, 84-89.	8.0	99
96	Biomimetic syntheses and structural elucidation of the apoptosis-inducing sesquiterpenoid trimers: (âˆ“)â€insliatrimers A and B. <i>Chemical Science</i> , 2013, 4, 1163.	7.4	23
97	A Bioorthogonal Ligation Enabled by Click Cycloaddition of <i>o</i> -Quinolinone Quinone Methide and Vinyl Thioether. <i>Journal of the American Chemical Society</i> , 2013, 135, 4996-4999.	13.7	118
98	Efficient Generation of <i>ortho</i> -Quinone Methide: Application to the Biomimetic Syntheses of (âˆ±)-Schefflone and Tocopherol Trimers. <i>Organic Letters</i> , 2012, 14, 18-21.	4.6	68
99	Mixed Lineage Kinase Domain-like Protein Mediates Necrosis Signaling Downstream of RIP3 Kinase. <i>Cell</i> , 2012, 148, 213-227.	28.9	2,056
100	Biomimetic Syntheses of (âˆ“)â€Gochnatolides Aâ€C and (âˆ“)â€insliadimer B. <i>Journal of the American Chemical Society</i> , 2012, 134, 12414-12417.	13.7	68
101	Total Syntheses of <i>Lycopodium</i> Alkaloids (+)â€Fawcettimine, (+)â€Fawcettidine, and (âˆ“)â€Deoxyserratinine. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 491-495.	13.8	90
102	A Biomimetic Total Synthesis of (+)-Ainsliadimer A. <i>Organic Letters</i> , 2010, 12, 4284-4287.	4.6	74
103	Total Synthesis of the Diazobenzofluorene Antibiotic (âˆ“)â€Kinamycin C1. <i>Journal of the American Chemical Society</i> , 2006, 128, 14790-14791.	13.7	87
104	Stereocontrolled Synthesis of a Complex Library via Elaboration of Angular Epoxyquinol Scaffolds. <i>Journal of Organic Chemistry</i> , 2005, 70, 6474-6483.	3.2	40
105	Synthesis of a Polymer-Supported Anthracene and Its Application as a Dienophile Scavenger. <i>Organic Letters</i> , 2004, 6, 795-798.	4.6	45
106	Total Synthesis of the Ubiquitin-Activating Enzyme Inhibitor (+)-Panepophenanthrin. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3913-3917.	13.8	61
107	Tuning an Imine Reductase for the Asymmetric Synthesis of Azacycloalkylamines by Concise Structureâ€Guided Engineering. <i>Angewandte Chemie</i> , 0, , .	2.0	0