

# 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	Mixed Lineage Kinase Domain-like Protein Mediates Necrosis Signaling Downstream of RIP3 Kinase. <i>Cell</i> , 2012, 148, 213-227.	28.9	2,056
2	Late-Stage Diversification of Natural Products. <i>ACS Central Science</i> , 2020, 6, 622-635.	11.3	203
3	A Bioorthogonal Ligation Enabled by Click Cycloaddition of <i>ortho</i> -Quinolinone Quinone Methide and Vinyl Thioether. <i>Journal of the American Chemical Society</i> , 2013, 135, 4996-4999.	13.7	118
4	Trifunctional cross-linker for mapping protein-protein interaction networks and comparing protein conformational states. <i>ELife</i> , 2016, 5, .	6.0	105
5	Small-molecule activation of the TRAIL receptor DR5 in human cancer cells. <i>Nature Chemical Biology</i> , 2013, 9, 84-89.	8.0	99
6	FAD-dependent enzyme-catalysed intermolecular [4+2] cycloaddition in natural product biosynthesis. <i>Nature Chemistry</i> , 2020, 12, 620-628.	13.6	97
7	Ainsliadimer A selectively inhibits IKK $\beta$ by covalently binding a conserved cysteine. <i>Nature Communications</i> , 2015, 6, 6522.	12.8	92
8	Click-ExM enables expansion microscopy for all biomolecules. <i>Nature Methods</i> , 2021, 18, 107-113.	19.0	91
9	Total Syntheses of <i>Lycopodium</i> Alkaloids (+)-Fawcettimine, (+)-Fawcettidine, and (±)-Deoxyserratinine. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 491-495.	13.8	90
10	Total Synthesis of the Diazobenzofluorene Antibiotic (±)-Kinamycin C1. <i>Journal of the American Chemical Society</i> , 2006, 128, 14790-14791.	13.7	87
11	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
12	Enantioselective Total Synthesis of (±)-Incarviate A. <i>Journal of the American Chemical Society</i> , 2015, 137, 11946-11949.	13.7	78
13	A Biomimetic Total Synthesis of (+)-Ainsliadimer A. <i>Organic Letters</i> , 2010, 12, 4284-4287.	4.6	74
14	Efficient Generation of <i>ortho</i> -Quinone Methide: Application to the Biomimetic Syntheses of (±)-Schefflone and Tocopherol Trimers. <i>Organic Letters</i> , 2012, 14, 18-21.	4.6	68
15	Biomimetic Syntheses of (±)-Gochnatiolides A and (±)-Ainsliadimer B. <i>Journal of the American Chemical Society</i> , 2012, 134, 12414-12417.	13.7	68
16	An Arabidopsis 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
17	Chemoproteomic Profiling of Bile Acid Interacting Proteins. <i>ACS Central Science</i> , 2017, 3, 501-509.	11.3	62
18	Total Synthesis of the Ubiquitin-Activating Enzyme Inhibitor (+)-Panepophenanthrin. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3913-3917.	13.8	61

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19	Diversity-oriented synthesis of Lycopodium alkaloids inspired by the hidden functional group pairing pattern. <i>Nature Communications</i> , 2014, 5, 4614.	12.8	52
20	Total Syntheses of (±)-Huperzine A and (+)-Lycopladines B and C. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1011-1015.	13.8	52
21	Using Small Molecules to Dissect Non-apoptotic Programmed Cell Death: Necroptosis, Ferroptosis, and Pyroptosis. <i>ChemBioChem</i> , 2015, 16, 2557-2561.	2.6	50
22	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
23	Photoinduced Skeletal Rearrangements Reveal Radical-Mediated Synthesis of Terpenoids. <i>Chem</i> , 2019, 5, 1671-1681.	11.7	47
24	Synthesis of a Polymer-Supported Anthracene and Its Application as a Dienophile Scavenger. <i>Organic Letters</i> , 2004, 6, 795-798.	4.6	45
25	Scalable Total Synthesis of (+)-Jungermannones B and C. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3112-3116.	13.8	45
26	Improving mass spectrometry analysis of protein structures with arginine-selective chemical cross-linkers. <i>Nature Communications</i> , 2019, 10, 3911.	12.8	45
27	Chrysoycin A Derivatives for the Treatment of Multi-Drug-Resistant Tuberculosis. <i>ACS Central Science</i> , 2020, 6, 928-938.	11.3	43
28	Carboxylate-Selective Chemical Cross-Linkers for Mass Spectrometric Analysis of Protein Structures. <i>Analytical Chemistry</i> , 2018, 90, 1195-1201.	6.5	42
29	Enantioselective Total Synthesis of (+)-Jungematrobrunin A. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10879-10883.	13.8	42
30	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
31	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
32	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
33	Total Synthesis and Structural Reassignment of Aspergillomarasmine A. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4291-4295.	13.8	40
34	Enantioselective Biomimetic Total Syntheses of Kuwanons I and J and Brosimones A and B. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9257-9261.	13.8	39
35	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
36	Probing the Anticancer Mechanism of Ainsliatrimerin A through Diverted Total Synthesis and Bioorthogonal Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12111-12115.	13.8	34

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37	Enantioselective Total Syntheses of Kuwanon X, Kuwanon Y, and Kuwanol A. <i>Organic Letters</i> , 2016, 18, 360-363.	4.6	34
38	New Strategies in the Efficient Total Syntheses of Polycyclic Natural Products. <i>Accounts of Chemical Research</i> , 2020, 53, 2569-2586.	15.6	33
39	Dynamic changes of phosphatidylinositol and phosphatidylinositol 4-phosphate levels modulate H <sup>+</sup> -ATPase and Na <sup>+</sup> /H <sup>+</sup> antiporter activities to maintain ion homeostasis in <i>Arabidopsis</i> under salt stress. <i>Molecular Plant</i> , 2021, 14, 2000-2014.	8.3	33
40	Ortho-Quinone Methide Finds Its Application in Bioorthogonal Ligation. <i>Current Organic Chemistry</i> , 2014, 18, 86-92.	1.6	32
41	Recent Advances in the Total Synthesis of Prenylflavonoid and Related Diels-Alder Natural Products. <i>Synthesis</i> , 2015, 47, 1519-1533.	2.3	32
42	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
43	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
44	T-ALL leukemia stem cell 'stemness' is epigenetically controlled by the master regulator SPI1. <i>ELife</i> , 2018, 7, .	6.0	32
45	A small-molecule cocktail promotes mammalian cardiomyocyte proliferation and heart regeneration. <i>Cell Stem Cell</i> , 2022, 29, 545-558.e13.	11.1	32
46	Novel CaMKII- $\gamma$ 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
47	Dissecting Programmed Cell Death with Small Molecules. <i>Accounts of Chemical Research</i> , 2020, 53, 1034-1045.	15.6	28
48	Total Syntheses of Natural Metallophores Staphylopin and Aspergillomarasmine A. <i>Journal of Organic Chemistry</i> , 2017, 82, 13643-13648.	3.2	27
49	Enzymatic Formation of a Skipped Methyl-Substituted Octaprenyl Side Chain of Longestin (KS505a): Involvement of Homo-PP as a Common Extender Unit. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6629-6632.	13.8	27
50	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
51	Second Generation TQ-Ligation for Cell Organelle Imaging. <i>ACS Chemical Biology</i> , 2015, 10, 1676-1683.	3.4	25
52	Inhibition of PU.1 ameliorates metabolic dysfunction and non-alcoholic steatohepatitis. <i>Journal of Hepatology</i> , 2020, 73, 361-370.	3.7	24
53	Advanced in the Synthesis of Kaurane Diterpenoids. <i>Chinese Journal of Organic Chemistry</i> , 2015, 35, 2447.	1.3	24
54	Biomimetic syntheses and structural elucidation of the apoptosis-inducing sesquiterpenoid trimers: ( $\hat{\alpha}$ )-ainsliatrimers A and B. <i>Chemical Science</i> , 2013, 4, 1163.	7.4	23

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55	<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
56	Synthesis and mode of action of oligomeric sesquiterpene lactones. <i>Natural Product Reports</i> , 2016, 33, 602-611.	10.3	21
57	Exploring the Binding Proteins of Glycolipids with Bifunctional Chemical Probes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14330-14334.	13.8	20
58	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
59	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
60	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
61	Scalable Total Synthesis of <i>rac</i>-Jungermannenones...B and C. <i>Angewandte Chemie</i> , 2016, 128, 3164-3168.	2.0	16
62	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
63	Divergent Total Syntheses of (âˆ“)â€Huperzineâ€...Q, (+)â€Lycopladineâ€...B, (+)â€Lycopladineâ€...C, and (âˆ“)â€4â€epi</i>-â€Lycopladineâ€...D. <i>Chemistry - An Asian Journal</i> , 2017, 12, 1557-1567.	3.3	15
64	Bioorthogonal Metabolic DNA Labelling using Vinyl Thioetherâ€Modified Thymidine and <i>o</i>-â€Quinolinone Quinone Methide. <i>Chemistry - A European Journal</i> , 2018, 24, 5895-5900.	3.3	15
65	Enantioselective Total Synthesis of (+)â€Jungermatrobruninâ€...A. <i>Angewandte Chemie</i> , 2019, 131, 10995-10999.2.0		15
66	Access to the 2<i>H</i>-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
67	Chemical screening identifies ROCK1 as a regulator of migrasome formation. <i>Cell Discovery</i> , 2020, 6, 51.	6.7	14
68	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
69	Syntheses of [1,2,4]triazolo[1,5-a]benzazoles enabled by the transition-metal-free oxidative Nâ€N bond formation. <i>Chemical Communications</i> , 2016, 52, 7028-7031.	4.1	12
70	Divergent Total Synthesis of Chaetoglines C to F. <i>Journal of Organic Chemistry</i> , 2019, 84, 8766-8770.	3.2	12
71	Chemoenzymatic Total Syntheses of Artonin I with an Intermolecular Dielsâ€Alderase. <i>Biotechnology Journal</i> , 2020, 15, 2000119.	3.5	12
72	Identification of the AMA Synthase from the Aspergillomarasmine A Biosynthesis and Evaluation of Its Biocatalytic Potential. <i>ACS Catalysis</i> , 2020, 10, 6291-6298.	11.2	12

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73	Biomimetic Synthesis of Rhytidenoneâ€¦A and Mode of Action of Cytotoxic Rhytidenoneâ€¦F. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4115-4120.	13.8	11
74	Pterisolic Acid B is a Nrf2 Activator by Targeting C171 within Keap1-BTB Domain. <i>Scientific Reports</i> , 2016, 6, 19231.	3.3	10
75	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
76	Chemoproteomic Profiling Reveals Ethacrynic Acid Targets Adenine Nucleotide Translocases to Impair Mitochondrial Function. <i>Molecular Pharmaceutics</i> , 2018, 15, 2413-2422.	4.6	10
77	Studies towards the synthesis of the functionalized C3â€“C14 decalin framework of alchivemycin A. <i>Organic Chemistry Frontiers</i> , 2016, 3, 251-258.	4.5	9
78	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
79	Fawcettimineâ€“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
80	Styryllactones from <i>Goniothalamus tamirensis</i> . <i>Phytochemistry</i> , 2020, 171, 112248.	2.9	8
81	Selective inhibition reveals the regulatory function of DYRK2 in protein synthesis and calcium entry. <i>ELife</i> , 2022, 11, .	6.0	8
82	Covalent Probe Finds Carboxylic Acid. <i>Cell Chemical Biology</i> , 2017, 24, 537-539.	5.2	7
83	<i>ent</i> -Jungermannone C Triggers Reactive Oxygen Species-Dependent Cell Differentiation in Leukemia Cells. <i>Journal of Natural Products</i> , 2018, 81, 298-306.	3.0	7
84	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
85	Functionâ€“Oriented Natural Product Synthesis. <i>Chinese Journal of Chemistry</i> , 2021, 39, 838-854.	4.9	7
86	Testing the polar auxin transport model with a selective plasma membrane H <sup>+</sup> -ATPase inhibitor. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1229-1245.	8.5	7
87	Total Synthesis and Structural Reassignment of Aspergillomarasmineâ€¦A. <i>Angewandte Chemie</i> , 2016, 128, 4363-4367.	2.0	6
88	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
89	A Pseudopaline Fluorescent Probe for the Selective Detection of <i>Pseudomonas aeruginosa</i> . <i>CCS Chemistry</i> , 2021, 3, 2405-2417.	7.8	6
90	Recent advances in target identification by natural product based chemical probes. <i>Science China Chemistry</i> , 2016, 59, 1088-1092.	8.2	5

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91	Enzymatic intermolecular Diels-Alder reactions in synthesis: From nature to design. , 2022, 2, 100013.		5
92	No Significant Increase in the $\hat{I}^{\prime}4$ - and $\hat{I}^{\prime}7$ -Dafachronic Acid Concentration in the Long-Lived <i>glp-1</i> Mutant, nor in the Mutants Defective in Dauer Formation. G3: Genes, Genomes, Genetics, 2015, 5, 1473-1479.	1.8	4
93	Computation-Guided Development of the $\hat{I}^{\prime}$ Click $\hat{I}^{\prime}$ -ortho-Quinone Methide Cycloaddition with Improved Kinetics. Organic Letters, 2020, 22, 2920-2924.	4.6	4
94	Concise total synthesis of nauclefine: A regioselective Rhodium(III)-catalyzed oxidative C-H activation approach. Tetrahedron, 2021, 87, 132120.	1.9	4
95	Small molecule enabled chemical biology and drug discovery. Bioorganic and Medicinal Chemistry, 2017, 25, 2815-2816.	3.0	3
96	Synthesis and Evaluation of a New Type of Small Molecule Epigenetic Modulator Containing Imidazo[1,2-b][1,2,4]triazole Motif. Frontiers in Chemistry, 2018, 6, 642.	3.6	3
97	Total synthesis of ( $\hat{I}^{\pm}$ )-antroquinonol. Organic and Biomolecular Chemistry, 2019, 17, 1754-1757.	2.8	3
98	Development of an effective fluorescence probe for discovery of aminopeptidase inhibitors to suppress biofilm formation. Journal of Antibiotics, 2019, 72, 461-468.	2.0	3
99	Biosynthetic Intermediate Probes for Visualizing and Identifying the Biosynthetic Enzymes of Plant Metabolites. ChemBioChem, 2021, 22, 982-984.	2.6	2
100	Biomimetic Synthesis of Rhytidenone $\hat{I}^{\dots}$ A and Mode of Action of Cytotoxic Rhytidenone $\hat{I}^{\dots}$ F. Angewandte Chemie, 2020, 132, 4144-4149.	2.0	1
101	Stereoselective synthesis of the C16 $\hat{I}^{\dots}$ C25 fragment of alchivemycins A and B. Tetrahedron Letters, 2021, 74, 153156.	1.4	1
102	Polycarcin V induces DNA-damage response and enables the profiling of DNA-binding proteins. National Science Review, 2022, 9, .	9.5	1
103	Perturbation of biological processes with small molecule kinase inhibitors. Current Opinion in Chemical Biology, 2022, 70, 102185.	6.1	1
104	Editorial overview: Recent advance in chemical genetics and chemical epigenetics. Current Opinion in Chemical Biology, 2019, 51, A1-A3.	6.1	0
105	Human Endogenous Natural Products. Progress in the Chemistry of Organic Natural Products, 2021, 114, 313-337.	1.1	0
106	Click-based amplification: designed to facilitate various target labelling modes with ultralow background amplification. RSC Chemical Biology, 2021, 2, 906-916.	4.1	0
107	Tuning an Imine Reductase for the Asymmetric Synthesis of Azacycloalkylamines by Concise Structure $\hat{I}^{\dots}$ Guided Engineering. Angewandte Chemie, 0, , .	2.0	0