# Xin Lu

List of Publications by Year
in descending order



| 193 | 9,537 | 23567 | 45317 |
|---|---|---|---|
| papers | citations | 58 h-index | 90 g-index |

| 193 | 193 | 193 | 6862 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phase error analysis and unwrapping error suppression in phase-sensitive optical time domain reflectometry. Optics Express, 2022, 30, 6934. | 3.4 | 15 |
| 2 | Insights into the gold(<scp>i</scp>)-catalyzed intermolecular annulations of alkynes with N-allenamides: a mechanistic DFT study. Dalton Transactions, 2022, 51, 3734-3739. | 3.3 | 3 |
| 3 | Efficient synthesis of tetracyclic Î³-lactamsviagold-catalyzed oxidative cyclization of alkenyl diynes. Organic Chemistry Frontiers, 2022, 9, 2557-2562. | 4.5 | 5 |
| 4 | Insights into the Mechanism of Metal-Catalyzed Transformation of Oxime Esters: Metal-Bound Radical Pathway vs Free Radical Pathway. Journal of Organic Chemistry, 2022, 87, 6014-6024. | 3.2 | 5 |
| 5 | Intermolecular 1,2-Difunctionalization of Alkenes Enabled by Fluoroamide-Directed Remote Benzyl C(sp<sup>3</sup>)â€“H Functionalization. Journal of the American Chemical Society, 2022, 144, 339-348. | 13.7 | 51 |
| 6 | Application of Intensity-Based Coherent Optical Time Domain Reflectometry to Bridge Monitoring. Sensors, 2022, 22, 3434. | 3.8 | 5 |
| 7 | Copper-catalyzed asymmetric cyclization of alkenyl diynes: method development and new mechanistic insights. Chemical Science, 2021, 12, 9466-9474. | 7.4 | 41 |
| 8 | Dynamic Effects in Intramolecular Schmidt Reactions: Entropy, Electrostatic Drag, and Selectivity Prediction. ChemPhysChem, 2021, 22, 649-656. | 2.1 | 2 |
| 9 | Characterizing detection noise in phase-sensitive optical time domain reflectometry. Optics Express, 2021, 29, 18791. | 3.4 | 14 |
| 10 | Insights into the mechanism of fatty acid photodecarboxylase: A theoretical investigation. Chemical Physics Letters, 2021, 771, 138550. | 2.6 | 2 |
| 11 | Photocatalytic Decarboxylative [3 + 2] and [4 + 2] Annulation of Enynals and Î³,Ïƒ-Unsaturated N-(Acyloxy)phthalimides by NaI/PPh<sub>3</sub> Catalysis. Organic Letters, 2021, 23, 7839-7844. | 4.6 | 24 |
| 12 | Atroposelective carbonylation of aryl iodides with amides: facile synthesis of enantioenriched cyclic and acyclic amides. Organic Chemistry Frontiers, 2021, 8, 6067-6073. | 4.5 | 20 |
| 13 | Surface plasmonics of Weyl semimetals. Physical Review B, 2021, 104, . | 3.2 | 6 |
| 14 | Distributed Humidity Sensing in Concrete Based on Polymer Optical Fiber. Polymers, 2021, 13, 3755. | 4.5 | 5 |
| 15 | Numerical Modeling of Fcy OTDR Sensing Using a Refractive Index Perturbation Approach. Journal of Lightwave Technology, 2020, 38, 974-980. | 4.6 | 17 |
| 16 | Synthesis and Spectroscopy of Monodispersed, Quantum-Confined FAPbBr<sub>3</sub> Perovskite Nanocrystals. Chemistry of Materials, 2020, 32, 549-556. | 6.7 | 39 |
| 17 | Gain Spectrum Engineering in Slope-Assisted Dynamic Brillouin Optical Time-Domain Analysis. Journal of Lightwave Technology, 2020, 38, 6967-6975. | 4.6 | 11 |
| 18 | Sizeâ€•and Halideâ€Ðependent Auger Recombination in Lead Halide Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 14292-14295. | 13.8 | 63 |

| # | Article | IF | Citations |
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| 19 | Evaluating Phase Errors in Phase-Sensitive Optical Time-Domain Reflectometry based on I/Q Demodulation. Journal of Lightwave Technology, 2020, , 1-1. | 4.6 | 15 |
| 20 | Characterization of Optical Fibers Directly Embedded on Metal Using a Particle Spray-Based Method. IEEE Sensors Journal, 2020, 20, 6414-6421. | 4.7 | 3 |
| 21 | Copper-Catalyzed Asymmetric Reaction of Alkenyl Diynes with Styrenes by Formal [3 + 2] Cycloaddition via Cu-Containing All-Carbon 1,3-Dipoles: Access to Chiral Pyrrole-Fused Bridged [2.2.1] Skeletons. Journal of the American Chemical Society, 2020, 142, 7618-7626. | 13.7 | 83 |
| 22 | Spectral Properties of the Signal in Phase-Sensitive Optical Time-Domain Reflectometry With Direct Detection. Journal of Lightwave Technology, 2020, 38, 1513-1521. | 4.6 | 18 |
| 23 | Size- and Composition-Dependent Exciton Spin Relaxation in Lead Halide Perovskite Quantum Dots. ACS Energy Letters, 2020, 5, 1701-1708. | 17.4 | 47 |
| 24 | Strong Spin-Selective Optical Stark Effect in Lead Halide Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 3594-3600. | 4.6 | 21 |
| 25 | Scandium Tetrahedron Supported by H Anion and CN Pentaanion inside Fullerene C<sub>80</sub>. Inorganic Chemistry, 2020, 59, 8284-8290. | 4.0 | 7 |
| 26 | Simultaneous enhancement of dynamic range and sensitivity in slope-assisted Brillouin optical time-domain analyzers via gain spectrum engineering. , 2020, , . | | 1 |
| 27 | Direct detection based ÏtOTDR using the Kramers-Kronig receiver. Optics Express, 2020, 28, 37058. | 3.4 | 7 |
| 28 | A Review of Methods for Fibre-Optic Distributed Chemical Sensing. Sensors, 2019, 19, 2876. | 3.8 | 48 |
| 29 | Organocatalytic Enantioselective Coniaâ€Eneâ€Type Carbocyclization of Ynamide Cyclohexanones: Regiodivergent Synthesis of Morphans and Normorphans. Angewandte Chemie - International Edition, 2019, 58, 16252-16259. | 13.8 | 72 |
| 30 | Gain Spectrum Engineering in Distributed Brillouin Fiber Sensors. Journal of Lightwave Technology, 2019, 37, 5231-5237. | 4.6 | 17 |
| 31 | Chemoselectivity in Gold(I)-Catalyzed Propargyl Ester Reactions: Insights From DFT Calculations. Frontiers in Chemistry, 2019, 7, 609. | 3.6 | 3 |
| 32 | Generation of Donor/Donor Copper Carbenes through Copper-Catalyzed Diyne Cyclization: Enantioselective and Divergent Synthesis of Chiral Polycyclic Pyrroles. Journal of the American Chemical Society, 2019, 141, 16961-16970. | 13.7 | 84 |
| 33 | On the absence of a phonon bottleneck in strongly confined CsPbBr<sub>3</sub> perovskite nanocrystals. Chemical Science, 2019, 10, 5983-5989. | 7.4 | 71 |
| 34 | Sulfur Moiety as a Double-Edged Sword for Realizing Ultrafine Supported Metal Nanoclusters with a Cationic Nature. ACS Applied Materials & Interfaces, 2019, 11, 11317-11326. | 8.0 | 15 |
| 35 | Unique closed-form solutions of portfolio selection subject to mean-skewness-normalization constraints. Operations Research Perspectives, 2019, 6, 100094. | 2.1 | 2 |
| 36 | Generation of Endocyclic Vinyl Carbene Complexes via Gold-Catalyzed Oxidative Cyclization of Terminal Diynes: Toward Naphthoquinones and Carbazolequinones. ACS Catalysis, 2019, 9, 1019-1025. | 11.2 | 46 |

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| 37 | Biexciton Auger recombination in mono-dispersed, quantum-confined CsPbBr3 perovskite nanocrystals obeys universal volume-scaling. Nano Research, 2019, 12, 619-623. | 10.4 | 63 |
| 38 | Metalâ€catalyzed alkyne oxidation/C ï£¿ H functionalization: Effects of oxidant, temperature, and metal catalyst on chemoselectivity. Journal of Computational Chemistry, 2019, 40, 1038-1044. | 3.3 | 2 |
| 39 | Measurement accuracy enhancement of distributed Brillouin sensors based on gain spectrum engineering. , 2019, , . | | 3 |
| 40 | Dual catalysis for enantioselective convergent synthesis of enantiopure vicinal amino alcohols. Nature Communications, 2018, 9, 410. | 12.8 | 92 |
| 41 | Electrochemical Synthesis of Imidazoâ€Fused Nâ€Heteroaromatic Compounds through a Câ^'N Bondâ€Forming Radical Cascade. Angewandte Chemie - International Edition, 2018, 57, 1636-1639. | 13.8 | 155 |
| 42 | Impact of the Fiber Coating on the Temperature Response of Distributed Optical Fiber Sensors at Cryogenic Ranges. Journal of Lightwave Technology, 2018, 36, 961-967. | 4.6 | 31 |
| 43 | Gold-Catalyzed [5+2]- and [5+1]-Annulations between Ynamides and 1,2-Benzisoxazoles with Ligand-Controlled Chemoselectivity. ACS Catalysis, 2018, 8, 9697-9701. | 11.2 | 71 |
| 44 | Zinc-catalyzed reaction of isoxazoles with thioynol ethers involving an unprecedented 1,2-sulfur migration. Chemical Communications, 2018, 54, 7435-7438. | 4.1 | 28 |
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| 46 | Transition-metal-free oxidative cyclization of N-propargyl ynamides: stereospecific construction of linear polycyclic N-heterocycles. Green Chemistry, 2018, 20, 3271-3278. | 9.0 | 33 |
| 47 | Conjugated Microporous Polymer as Heterogeneous Ligand for Highly Selective Oxidative Heck Reaction. Journal of the American Chemical Society, 2017, 139, 3966-3969. | 13.7 | 86 |
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| 49 | Discrimination of temperature and strain by combined refractive index and birefringence measurements using coherent Rayleigh sensing. , 2017, , . | | 0 |
| 50 | Reversal of Regioselectivity in Catalytic Arene-Ynamide Cyclization: Direct Synthesis of Valuable Azepino[4,5-b]indoles and Î²-Carbolines and DFT Calculations. ACS Catalysis, 2017, 7, 4004-4010. | 11.2 | 92 |
| 51 | Highly Site Selective Formal [5+2] and [4+2] Annulations of Isoxazoles with Heterosubstituted Alkynes by Platinum Catalysis: Rapid Access to Functionalized 1,3â€Oxazepines and 2,5â€Dihydropyridines. Angewandte Chemie - International Edition, 2017, 56, 605-609. | 13.8 | 146 |
| 52 | Divergent synthesis of N-heterocycles via controllable cyclization of azido-diynes catalyzed by copper and gold. Nature Communications, 2017, 8, 1748. | 12.8 | 139 |
| 53 | Sponge-like quaternary ammonium-based poly(ionic liquid)s for high CO<sub>2</sub> capture and efficient cycloaddition under mild conditions. Journal of Materials Chemistry A, 2017, 5, 25594-25600. | 10.3 | 60 |
| 54 | Temperature-strain discrimination in distributed optical fiber sensing using phase-sensitive optical time-domain reflectometry. Optics Express, 2017, 25, 16059. | 3.4 | 66 |

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| 55 | Implementing focal-plane phase masks optimized for real telescope apertures with SLM-based digital adaptive coronagraphy. Optics Express, 2017, 25, 16686. | 3.4 | 6 |
| 56 | Synthesis and Characterization of a Metallacyclic Framework with Three Fused Fiveâ€membered Rings. Angewandte Chemie - International Edition, 2017, 56, 9067-9071. | 13.8 | 45 |
| 57 | Electrochemical Câ^'H/Nâ^'H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. Angewandte Chemie - International Edition, 2016, 55, 9168-9172. | 13.8 | 215 |
| 58 | Electrocatalytic Generation of Amidyl Radicals for Olefin Hydroamidation: Use of Solvent Effects to Enable Anilide Oxidation. Angewandte Chemie - International Edition, 2016, 55, 2226-2229. | 13.8 | 214 |
| 59 | Characterisation of an electrical heating method for metallic-coated optical fibres for distributed sensing applications. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 60 | Catalytic Ynamide Oxidation Strategy for the Preparation of Î±-Functionalized Amides. ACS Catalysis, 2016, 6, 6055-6062. | 11.2 | 68 |
| 61 | Optimal detection bandwidth for phase-sensitive optical time-domain reflectometry. Proceedings of SPIE, 2016, , . | 0.8 | 4 |
| 62 | Frontispiece: Electrochemical Câ^'H/Nâ^'H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. Angewandte Chemie - International Edition, 2016, 55, . | 13.8 | 2 |
| 63 | Synthesis of 2-Aza-1,3-butadienes through Gold-Catalyzed Intermolecular Ynamide Amination/Câ€“H Functionalization. Organic Letters, 2016, 18, 4630-4633. | 4.6 | 35 |
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| 66 | Copperâ€Catalyzed Intramolecular Oxidative Amination of Unactivated Internal Alkenes. Chemistry - A European Journal, 2016, 22, 4379-4383. | 3.3 | 52 |
| 67 | Gold-Catalyzed Intermolecular Ynamide Amination-Initiated Aza-Nazarov Cyclization: Access to Functionalized 2-Aminopyrroles. Organic Letters, 2016, 18, 3254-3257. | 4.6 | 97 |
| 68 | Novel technique for distributed fibre sensing based on coherent Rayleigh scattering measurements of birefringence. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 69 | Zincâ€Catalyzed Alkyne Oxidation/Cï£¿H Functionalization: Highly Siteâ€Selective Synthesis of Versatile Isoquinolones and Î²â€Carbolines. Angewandte Chemie - International Edition, 2015, 54, 8245-8249. | 13.8 | 154 |
| 70 | Pristine graphene dispersion in solvents and its application as a catalyst support: a combined theoretical and experimental study. Journal of Materials Chemistry A, 2015, 3, 6282-6285. | 10.3 | 26 |
| 71 | Internal dynamics in the molecular complex of CF3CN and H2O. Physical Chemistry Chemical Physics, 2015, 17, 17266-17270. | 2.8 | 2 |
| 72 | Generation of Î±-Imino Gold Carbenes through Gold-Catalyzed Intermolecular Reaction of Azides with Ynamides. Journal of the American Chemical Society, 2015, 137, 9567-9570. | 13.7 | 245 |

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| 73 | Distributed phase birefringence measurements based on polarization correlation in phase-sensitive optical time-domain reflectometers. Optics Express, 2015, 23, 24923. | 3.4 | 69 |
| 74 | Atom-economic generation of gold carbenes: gold-catalyzed formal [3+2] cycloaddition between ynamides and isoxazoles. Chemical Science, 2015, 6, 1265-1271. | 7.4 | 251 |
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| 76 | MilliKelvin resolution in cryogenic temperature distributed fibre sensing based on coherent Rayleigh scattering. , 2014, , . | | 8 |
| 77 | Planar MÃ¶bius aromatic pentalenes incorporating 16 and 18 valence electron osmiums. Nature Communications, 2014, 5, 3265. | 12.8 | 169 |
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| 79 | Hydrogen bonding in microsolvation: photoelectron imaging and theoretical studies on Auxâ¯â€“(H2O)n and Auxâ¯â€“(CH3OH)n (x = 1, 2; n = 1, 2) complexes. Physical Chemistry Chemical Physics, 2014, 16, 4771. | 2.8 | 11 |
| 80 | Magnetically-induced circular-polarization-dependent loss of magneto-optic fiber Bragg gratings with linear birefringence. Optical Fiber Technology, 2013, 19, 219-222. | 2.7 | 4 |
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| 83 | High LUMO energy level C60(OCH3)4 derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. Solar Energy Materials and Solar Cells, 2013, 111, 193-199. | 6.2 | 29 |
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| 91 | Identification of the Most Stable Sc<sub>2</sub>C<sub>80</sub> Isomers: Structure, Electronic Property, and Molecular Spectra Investigations. Chinese Journal of Chemistry, 2012, 30, 765-770. | 4.9 | 5 |
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| 99 | Mononuclear Bis(imino)arylcopper(I) Nâ€Heterocyclic Carbene Complex: Synthesis, Structure, and Reaction with Organic Azide. European Journal of Inorganic Chemistry, 2010, 2010, 4506-4512. | 2.0 | 12 |
| 100 | Addition of Carbene to the Equator of C<sub>70</sub> To Produce the Most Stable C<sub>71</sub>H<sub>2</sub> Isomer: 2â€‰aHâ€2(12)aâ€Homo(C<sub>70</sub>â€D<sub>5h(6)</sub>)[5,6]fullerene. Angewandte Chemie - International Edition, 2010, 49, 962-966. | 13.8 | 25 |
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| 102 | The oddâ€“even alternation of heteroatom-doped carbon clusters AuCnâ^' (nâ©½12): Experimental observations and density functional studies. Journal of Molecular Structure, 2010, 967, 153-158. | 3.6 | 6 |
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| 104 | A new optical orthogonal code label and all-optical recognition technology for optical packet switching. , 2010, , . | | 0 |
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| 110 | Russian-Doll-Type Metal Carbide Endofullerene: Synthesis, Isolation, and Characterization of Sc<sub>4</sub>C<sub>2</sub>@C<sub>80</sub>. Journal of the American Chemical Society, 2009, 131, 16646-16647. | 13.7 | 118 |
| 111 | Homoconjugation/Homoaromaticity in Main Group Inorganic Molecules. Journal of the American Chemical Society, 2009, 131, 9789-9799. | 13.7 | 36 |
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| 115 | Theoretical Predictions of <sup>31</sup>P NMR Chemical Shift Threshold of Trimethylphosphine Oxide Absorbed on Solid Acid Catalysts. Journal of Physical Chemistry B, 2008, 112, 4496-4505. | 2.6 | 143 |
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| 130 | C64H4:Â Production, Isolation, and Structural Characterizations of a Stable Unconventional Fulleride. Journal of the American Chemical Society, 2006, 128, 6605-6610. | 13.7 | 90 |
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