

Gang Lu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5898433/publications.pdf>

Version: 2024-02-01

174
papers

17,104
citations

26630

56
h-index

14208

128
g-index

177
all docs

177
docs citations

177
times ranked

23108
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	14.6	3,103
2	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. Angewandte Chemie - International Edition, 2011, 50, 11093-11097.	13.8	1,517
3	Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	10.0	1,346
4	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	10.0	980
5	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂ . Small, 2013, 9, 1974-1981.	10.0	544
6	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 9052-9056.	13.8	520
7	Preparation of MoS ₂ -Polyvinylpyrrolidone Nanocomposites for Flexible Nonvolatile Rewritable Memory Devices with Reduced Graphene Oxide Electrodes. Small, 2012, 8, 3517-3522.	10.0	393
8	Rapid and Reliable Thickness Identification of Two-Dimensional Nanosheets Using Optical Microscopy. ACS Nano, 2013, 7, 10344-10353.	14.6	359
9	Optical Identification of Single- and Few-Layer MoS ₂ Sheets. Small, 2012, 8, 682-686.	10.0	290
10	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. ACS Nano, 2015, 9, 5520-5535.	14.6	274
11	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. Chemical Science, 2011, 2, 1817.	7.4	249
12	The Catalytic Role of N-Heterocyclic Carbene in a Metal-Free Conversion of Carbon Dioxide into Methanol: A Computational Mechanism Study. Journal of the American Chemical Society, 2010, 132, 12388-12396.	13.7	235
13	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	4.6	234
14	Copper-catalyzed asymmetric addition of olefin-derived nucleophiles to ketones. Science, 2016, 353, 144-150.	12.6	227
15	Catalytic activation of carbon-carbon bonds in cyclopentanones. Nature, 2016, 539, 546-550.	27.8	217
16	High-Performance and Long-Lived Cu/SiO ₂ Nanocatalyst for CO ₂ Hydrogenation. ACS Catalysis, 2015, 5, 4255-4259.	11.2	200
17	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and Ti ₃ C ₂ T _x MXene for the Monitoring of Human Activities. ACS Nano, 2021, 15, 9690-9700.	14.6	191
18	Ligand-Substrate Dispersion Facilitates the Copper-Catalyzed Hydroamination of Unactivated Olefins. Journal of the American Chemical Society, 2017, 139, 16548-16555.	13.7	189

#	ARTICLE	IF	CITATIONS
19	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <i>Nanoscale</i> , 2012, 4, 293-297.	5.6	185
20	Improved Photochromic Properties on Viologen-Based Inorganic-Organic Hybrids by Using π -Conjugated Substituents as Electron Donors and Stabilizers. <i>Inorganic Chemistry</i> , 2013, 52, 1199-1205.	4.0	183
21	A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp^3 C-H arylation. <i>Nature Chemistry</i> , 2018, 10, 540-548.	13.6	180
22	Photochromic Hybrid Containing <i>In Situ</i> -Generated Benzyl Viologen and Novel Trinuclear $[Bi_3Cl_{14}]^{5-}$: Improved Photoresponsive Behavior by the π - π Interactions and Size Effect of Inorganic Oligomer. <i>Inorganic Chemistry</i> , 2014, 53, 5538-5545.	4.0	139
23	MnO_2 Nanosheet-Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zinc-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 1537-1545.	6.8	122
24	Members of the tomato FRUITFULL MADS-box family regulate style abscission and fruit ripening. <i>Journal of Experimental Botany</i> , 2014, 65, 3005-3014.	4.8	113
25	Live-Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. <i>Advanced Materials</i> , 2014, 26, 5124-5128.	21.0	110
26	Recent developments of flexible and transparent SERS substrates. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3956-3969.	5.5	110
27	Benzazetidene synthesis via palladium-catalysed intramolecular C-H amination. <i>Nature Chemistry</i> , 2016, 8, 1131-1136.	13.6	100
28	Fish Gelatin Based Triboelectric Nanogenerator for Harvesting Biomechanical Energy and Self-Powered Sensing of Human Physiological Signals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16442-16450.	8.0	100
29	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. <i>Langmuir</i> , 2010, 26, 5603-5609.	3.5	98
30	3D assembly of Ti_3C_2 -MXene directed by water/oil interfaces. <i>Nanoscale</i> , 2018, 10, 3621-3625.	5.6	98
31	Computational Study of Rh-Catalyzed Carboacylation of Olefins: Ligand-Promoted Rhodacycle Isomerization Enables Regioselective C-C Bond Functionalization of Benzocyclobutenones. <i>Journal of the American Chemical Society</i> , 2015, 137, 8274-8283.	13.7	95
32	Electrochemical deposition of Cl-doped n-type Cu_2O on reduced graphene oxide electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 3467-3470.	6.7	91
33	Gold catalyzed hydrogenations of small imines and nitriles: enhanced reactivity of Au surface toward H_2 via collaboration with a Lewis base. <i>Chemical Science</i> , 2014, 5, 1082-1090.	7.4	91
34	Modular <i>ipso</i> / <i>ortho</i> Difunctionalization of Aryl Bromides via Palladium/Norbornene Cooperative Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 8551-8562.	13.7	91
35	Origins of Initiation Rate Differences in Ruthenium Olefin Metathesis Catalysts Containing Chelating Benzylidenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 5782-5792.	13.7	89
36	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. <i>ACS Nano</i> , 2020, 14, 3876-3884.	14.6	86

#	ARTICLE	IF	CITATIONS
37	Tridentate Directing Groups Stabilize 6-Membered Palladacycles in Catalytic Alkene Hydrofunctionalization. <i>Journal of the American Chemical Society</i> , 2017, 139, 15576-15579.	13.7	83
38	Molecular assembly of biomimetic microcapsules. <i>Soft Matter</i> , 2005, 1, 259.	2.7	82
39	On the "Reverse Gear" Mechanism of the Reversible Dehydrogenation/Hydrogenation of a Nitrogen Heterocycle Catalyzed by a C _p *Ir Complex: A Computational Study. <i>Organometallics</i> , 2011, 30, 3131-3141.	2.3	82
40	Chemoselective Photodeoxidation of Graphene Oxide Using Sterically Hindered Amines as Catalyst: Synthesis and Applications. <i>ACS Nano</i> , 2012, 6, 3027-3033.	14.6	82
41	Layer-by-Layer Assembly of Human Serum Albumin and Phospholipid Nanotubes Based on a Template. <i>Langmuir</i> , 2005, 21, 1679-1682.	3.5	80
42	Patterning Colloidal Metal Nanoparticles for Controlled Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 4873-4878.	21.0	74
43	Computational Mechanistic Study on C _p *Ir Complex-Mediated Acceptorless Alcohol Dehydrogenation: Bifunctional Hydrogen Transfer vs β -H Elimination. <i>Organometallics</i> , 2011, 30, 2349-2363.	2.3	74
44	Chiral acid-catalysed enantioselective C-H functionalization of toluene and its derivatives driven by visible light. <i>Nature Communications</i> , 2019, 10, 1774.	12.8	74
45	Gold Nanoparticle-Embedded Polydimethylsiloxane Elastomers for Highly Sensitive Raman Detection. <i>Small</i> , 2012, 8, 1336-1340.	10.0	72
46	NHC Ligands Tailored for Simultaneous Regio- and Enantiocontrol in Nickel-Catalyzed Reductive Couplings. <i>Journal of the American Chemical Society</i> , 2017, 139, 9317-9324.	13.7	71
47	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. <i>Chemical Communications</i> , 2011, 47, 8560.	4.1	69
48	A Photoswitchable Olefin Metathesis Catalyst. <i>Organometallics</i> , 2017, 36, 490-497.	2.3	69
49	Nanolithography of Single-Layer Graphene Oxide Films by Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 6164-6166.	3.5	68
50	Density Functional Theory Mechanistic Study of the Reduction of CO ₂ to CH ₄ Catalyzed by an Ammonium Hydridoborate Ion Pair: CO ₂ Activation via Formation of a Formic Acid Entity. <i>Inorganic Chemistry</i> , 2013, 52, 12098-12107.	4.0	65
51	Plasmon-generated hot holes for chemical reactions. <i>Nano Research</i> , 2020, 13, 3183-3197.	10.4	64
52	H-bonded reusable template assisted para-selective ketonisation using soft electrophilic vinyl ethers. <i>Nature Communications</i> , 2018, 9, 3582.	12.8	62
53	Computationally Designed Metal-Free Hydrogen Activation Site: Reaching the Reactivity of Metal-Ligand Bifunctional Hydrogenation Catalysts. <i>Inorganic Chemistry</i> , 2010, 49, 295-301.	4.0	61
54	Super-resolution Localization and Defocused Fluorescence Microscopy on Resonantly Coupled Single-Molecule, Single-Nanorod Hybrids. <i>ACS Nano</i> , 2016, 10, 2455-2466.	14.6	61

#	ARTICLE	IF	CITATIONS
55	D3h CN ₃ Be ₃ ⁺ and CO ₃ Li ₃ ⁺ : viable planar hexacoordinate carbon prototypes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14760.	2.8	59
56	Why the Mechanisms of Digermyne and Distannyne Reactions with H ₂ Differ So Greatly. <i>Journal of the American Chemical Society</i> , 2012, 134, 8856-8868.	13.7	59
57	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015, 6, 6287.	12.8	58
58	Graphene Oxide Scrolls on Hydrophobic Substrates Fabricated by Molecular Combing and Their Application in Gas Sensing. <i>Small</i> , 2013, 9, 382-386.	10.0	57
59	Controlled Assembly of Gold Nanoparticles and Graphene Oxide Sheets on Dip Pen Nanolithography-Generated Templates. <i>Langmuir</i> , 2009, 25, 10455-10458.	3.5	54
60	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19119-19122.	3.1	52
61	MgO: an excellent catalyst support for CO oxidative coupling to dimethyl oxalate. <i>Catalysis Science and Technology</i> , 2014, 4, 1925-1930.	4.1	52
62	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15973-15979.	3.1	50
63	Influence of Supramolecular Interactions on Electron-Transfer Photochromism of the Crystalline Adducts of 4,4'-Bipyridine and Carboxylic Acids. <i>Crystal Growth and Design</i> , 2014, 14, 2527-2531.	3.0	50
64	Merging Reagent Modulation and Remote Anchimeric Assistance for Glycosylation: Highly Stereoselective Synthesis of β -Glycans up to a 30-mer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12597-12606.	13.8	47
65	Fabrication and Characterization of Human Serum Albumin and β -Dimyristoylphosphatidic Acid Microcapsules Based on Template Technique. <i>Chemistry of Materials</i> , 2005, 17, 2514-2519.	6.7	46
66	Computational design of metal-free catalysts for catalytic hydrogenation of imines. <i>Dalton Transactions</i> , 2010, 39, 4038.	3.3	45
67	Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13011-13018.	8.0	45
68	Insight into the relative reactivity of σ -Frustrated Lewis pairs and stable carbenes in activating H ₂ and CH ₄ : A comparative computational study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5268.	2.8	44
69	Manipulating the concavity of rhodium nanocubes enclosed by high-index facets via site-selective etching. <i>Chemical Communications</i> , 2014, 50, 1662-1664.	4.1	44
70	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. <i>Nanoscale</i> , 2012, 4, 860-863.	5.6	43
71	Controlled Growth of Peptide Nanoarrays on Si/SiO ₂ Substrates. <i>Small</i> , 2008, 4, 1324-1328.	10.0	42
72	Computational Evidence for Lewis Base-Promoted CO ₂ Hydrogenation to Formic Acid on Gold Surfaces. <i>ACS Catalysis</i> , 2017, 7, 4519-4526.	11.2	42

#	ARTICLE	IF	CITATIONS
73	Computationally Guided Catalyst Design in the Type I Dynamic Kinetic Asymmetric Pauson-Khand Reaction of Allenyl Acetates. <i>Journal of the American Chemical Society</i> , 2017, 139, 15022-15032.	13.7	42
74	Borophene-like boron subunits-inserted molybdenum framework of MoB ₂ enables stable and quick-acting Li ₂ S ₆ -based lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 32, 216-224.	18.0	42
75	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. <i>Nano Energy</i> , 2021, 89, 106329.	16.0	41
76	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. <i>Nano Energy</i> , 2022, 92, 106840.	16.0	39
77	Microcapsule Assembly of Human Serum Albumin at the Liquid/Liquid Interface by the Pendant Drop Technique. <i>Langmuir</i> , 2004, 20, 8401-8403.	3.5	38
78	Encumbering the intramolecular π donation by using a bridge: A strategy for designing metal-free compounds to hydrogen activation. <i>Science Bulletin</i> , 2010, 55, 239-245.	1.7	38
79	Catalytic metal-free ketone hydrogenation: a computational experiment. <i>Dalton Transactions</i> , 2010, 39, 5519.	3.3	38
80	Surface Modification of Smooth Poly(L-lactic acid) Films for Gelatin Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 687-693.	8.0	38
81	Plasmon-Mediated Surface Engineering of Silver Nanowires for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2774-2779.	4.6	38
82	Para-Selective Cyanation of Arenes by H-Bonded Template. <i>Chemistry - A European Journal</i> , 2020, 26, 11558-11564.	3.3	36
83	Reversible Heterolytic Methane Activation of Metal-Free Closed-Shell Molecules: A Computational Proof-of-Principle Study. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2254-2260.	2.0	35
84	Designing Metal-Free Catalysts by Mimicking Transition-Metal Pincer Templates. <i>Chemistry - A European Journal</i> , 2011, 17, 2038-2043.	3.3	34
85	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2014, 50, 9839-9841.	4.1	34
86	Catalytic enantioselective oxidative coupling of saturated ethers with carboxylic acid derivatives. <i>Nature Communications</i> , 2019, 10, 559.	12.8	33
87	Surface-Enhanced Raman Scattering of Ag-Au Nanodisk Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10390-10395.	3.1	31
88	Computational exploration of ligand effects in copper-catalyzed boracarboxylation of styrene with CO ₂ . <i>Catalysis Science and Technology</i> , 2017, 7, 5049-5054.	4.1	29
89	Flexible organic electrochemical transistors for chemical and biological sensing. <i>Nano Research</i> , 2022, 15, 2433-2464.	10.4	29
90	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. <i>RSC Advances</i> , 2015, 5, 6829-6833.	3.6	28

#	ARTICLE	IF	CITATIONS
91	Imaging Heterogeneously Distributed Photoactive Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1705494.	21.0	28
92	A Ring-Opening Metathesis Polymerization Catalyst That Exhibits Redox-Switchable Monomer Selectivities. <i>Chemistry - A European Journal</i> , 2017, 23, 5994-6000.	3.3	27
93	Ruthenium-Catalyzed Reductive Cleavage of Unstrained Aryl-Aryl Bonds: Reaction Development and Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2019, 141, 18630-18640.	13.7	27
94	Synthesis of 42-faceted bismuth vanadate microcrystals for enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 207-212.	9.4	27
95	Site-Divergent Alkenyl C-H Fluoroallylation of Olefins Enabled by Tunable Rhodium Catalysis. <i>ACS Catalysis</i> , 2022, 12, 8857-8867.	11.2	27
96	Facile "Needle-Scratching" Method for Fast Catalyst Patterns Used for Large-Scale Growth of Densely Aligned Single-Walled Carbon Nanotube Arrays. <i>Small</i> , 2009, 5, 2061-2065.	10.0	25
97	Metal-free catalysts for hydrogenation of both small and large imines: a computational experiment. <i>Dalton Transactions</i> , 2011, 40, 1929.	3.3	25
98	Embedding Silver Nanowires into a Hydroxypropyl Methyl Cellulose Film for Flexible Electrochromic Devices with High Electromechanical Stability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1735-1742.	8.0	25
99	Nanoscale-Controlled Enzymatic Degradation of Poly(L-lactic acid) Films Using Diphenyl Nanolithography. <i>Small</i> , 2011, 7, 226-229.	10.0	24
100	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. <i>Nanoscale</i> , 2018, 10, 16895-16901.	5.6	24
101	Catalytic metal-free intramolecular hydroaminations of non-activated aminoalkenes: A computational exploration. <i>Dalton Transactions</i> , 2012, 41, 9091.	3.3	23
102	Thermodynamic Stability versus Kinetic Stability: Is the Planar Hexacoordinate Carbon Species D_3h CN_3Mg_3 Viable?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3319-3325.	2.5	23
103	Computational study of silver-catalyzed stereoselective hydroalkylation of alkynes: Pauli repulsion controlled Z/E selectivity. <i>Chemical Communications</i> , 2021, 57, 6412-6415.	4.1	23
104	Tuning the Reactivity of Cyclopropenes from Living Ring-Opening Metathesis Polymerization (ROMP) to Single-Addition and Alternating ROMP. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17771-17776.	13.8	22
105	AIE + ESIPT activity-based NIR Cu^{2+} sensor with dye participated binding strategy. <i>Chemical Communications</i> , 2021, 57, 7685-7688.	4.1	22
106	Origins of Lewis acid acceleration in nickel-catalysed C-H, C-C and C-O bond cleavage. <i>Catalysis Science and Technology</i> , 2021, 11, 4417-4428.	4.1	21
107	Preparation and applications of freestanding Janus nanosheets. <i>Nanoscale</i> , 2021, 13, 15151-15176.	5.6	21
108	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. <i>ACS Nano</i> , 2021, 15, 5661-5670.	14.6	21

#	ARTICLE	IF	CITATIONS
109	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanoic Acid and 1-Octadecanethiol. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4184-4187.	3.1	20
110	A computational experiment to study hydrogenations of various unsaturated compounds catalyzed by a rationally designed metal-free catalyst. <i>Dalton Transactions</i> , 2012, 41, 4674.	3.3	19
111	<i>Streptococcus himalayensis</i> sp. nov., isolated from the respiratory tract of <i>Marmota himalayana</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 256-261.	1.7	19
112	Preparation of Silica Microcapsules Containing Octadecane as Temperature-adjusting Powder. <i>Chemistry Letters</i> , 2007, 36, 494-495.	1.3	18
113	Anodic oxidation triggered divergent 1,2- and 1,4-group transfer reactions of β -hydroxycarboxylic acids enabled by electrochemical regulation. <i>Chemical Science</i> , 2020, 11, 12021-12028.	7.4	18
114	Modulating the Plasmon-Mediated Oxidation of <i>p</i> -Aminothiophenol with Asymmetrically Grafted Thiol Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7650-7656.	4.6	18
115	Density Functional Theory Mechanistic Study of Ni-Catalyzed Reductive Alkyne-Alkyne Cyclodimerization: Oxidative Cyclization versus Outer-Sphere Proton Transfer. <i>Organic Letters</i> , 2020, 22, 2454-2459.	4.6	18
116	Biogenic capsules made of proteins and lipids. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 224-227.	2.1	17
117	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. <i>Nanoscale</i> , 2021, 13, 724-729.	5.6	17
118	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. <i>Journal of Semiconductors</i> , 2021, 42, 092601.	3.7	17
119	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. <i>Chemical Communications</i> , 2011, 47, 10070.	4.1	16
120	Computational studies on the Rh-catalyzed carboxylation of a C(sp ²)-H bond using CO ₂ . <i>Catalysis Science and Technology</i> , 2017, 7, 3539-3545.	4.1	16
121	Effect of nanostructured silicon on surface enhanced Raman scattering. <i>RSC Advances</i> , 2018, 8, 6629-6633.	3.6	16
122	Single-molecule mapping of catalytic reactions on heterostructures. <i>Nano Today</i> , 2020, 34, 100957.	11.9	15
123	An adaptive two-scale biomedical image fusion method with statistical comparisons. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105603.	4.7	15
124	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7914-7921.	3.1	15
125	Molecular Coadsorption of <i>p</i> -Hydroxythiophenol on Silver Nanoparticles Boosts the Plasmon-Mediated Decarboxylation Reaction. <i>ACS Catalysis</i> , 2022, 12, 2938-2946.	11.2	15
126	General Dual-Switched Dynamic Singlet Fission Channels in Solvents Governed Jointly by Chromophore Structural Dynamics and Solvent Impact: Singlet Prefission Energetics Analyses. <i>Journal of the American Chemical Society</i> , 2020, 142, 17469-17479.	13.7	14

#	ARTICLE	IF	CITATIONS
127	Rh-Catalyzed Cascade C=C _{olefin} â€H Activations and Mechanistic Insight. ACS Catalysis, 2021, 11, 9136-9142.	11.2	14
128	Plasmon-mediated photochemical transformation of inorganic nanocrystals. Applied Materials Today, 2021, 24, 101125.	4.3	14
129	How the electron-deficient Cp ligand facilitates Rh-catalyzed annulations with alkynes. Organic Chemistry Frontiers, 2022, 9, 979-988.	4.5	14
130	Realizing Ultrahigh Transconductance in Organic Electrochemical Transistor by Co-Doping PEDOT:PSS with Ionic Liquid and Dodecylbenzenesulfonate. Macromolecular Rapid Communications, 2022, 43, e2200212.	3.9	14
131	Origin of ligand effects on reactivities of pincer-Pd catalyzed hydrocarboxylation of allenes and alkenes with formate salts: a computational study. Catalysis Science and Technology, 2018, 8, 2835-2840.	4.1	13
132	Silver Nanowireâ€Templated Molecular Nanopatterning and Nanoparticle Assembly for Surfaceâ€Enhanced Raman Scattering. Chemistry - A European Journal, 2019, 25, 10561-10565.	3.3	13
133	Total synthesis of <i>Lentinus giganteus</i> glycans with antitumor activities via stereoselective Î±-glycosylation and orthogonal one-pot glycosylation strategies. Chemical Science, 2022, 13, 7755-7764.	7.4	13
134	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. Langmuir, 2010, 26, 4616-4619.	3.5	12
135	Facet-Dependent Diol-Induced Density of States of Anatase TiO ₂ Crystal Surface. ACS Omega, 2017, 2, 4032-4038.	3.5	12
136	Surface Modification Strategy for Promoting the Performance of Non-noble Metal Single-Atom Catalysts in Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 19457-19466.	8.0	12
137	Manipulation of the Reducibility of Ceriaâ€Supported Au Catalysts by Interface Engineering. ChemCatChem, 2013, 5, 1308-1312.	3.7	11
138	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 14880-14891.	2.6	11
139	Electrostatic repulsion-controlled regioselectivity in nitrene-mediated allylic Câ€H amidations. Organic Chemistry Frontiers, 0, , .	4.5	11
140	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. Catalysts, 2021, 11, 1115.	3.5	11
141	Origins of regio- and stereoselectivity in Cu-catalyzed alkyne difunctionalization with CO ₂ and organoboranes. Organic Chemistry Frontiers, 2022, 9, 1033-1039.	4.5	11
142	Origin of Ligand Effects on Stereoinsertion in Pd-Catalyzed Synthesis of Tetrasubstituted Olefins. Journal of Organic Chemistry, 2021, 86, 18128-18138.	3.2	11
143	Palladiumâ€Catalyzed Stagewise Strainâ€Releaseâ€Driven Câ€C Activation of Bicyclo[1.1.1]pentanyl Alcohols. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
144	Origins of regioselectivity in Ni-catalyzed hydrofunctionalization of alkenes via ligand-to-ligand hydrogen transfer mechanism. Chemical Communications, 2022, 58, 8650-8653.	4.1	11

#	ARTICLE	IF	CITATIONS
145	Solvent-induced improvement of Au photo-deposition and resulting photo-catalytic efficiency of Au/TiO ₂ . RSC Advances, 2016, 6, 97464-97468.	3.6	10
146	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. Chemical Communications, 2019, 55, 11630-11633.	4.1	10
147	Computational exploration of substrate and ligand effects in nickel-catalyzed C–Si bond carboxylation with CO ₂ . Organic Chemistry Frontiers, 2019, 6, 3629-3635.	4.5	10
148	Self-limiting lithiation of vanadium diboride nanosheets as ultra-stable mediators towards high-sulfur loading and long-cycle lithium sulfur batteries. Sustainable Energy and Fuels, 2021, 5, 3134-3142.	4.9	10
149	Molecular Cocatalyst-Induced Enhancement of the Plasmon-Mediated Coupling of <i>p</i> -Nitrothiophenols at the Silver Nanoparticle–Graphene Oxide Interface. ACS Applied Nano Materials, 2021, 4, 10976-10984.	5.0	10
150	Computational study of Cu-catalyzed 1,2-hydrocarboxylation of 1,3-dienes with CO ₂ : Pauli repulsion-controlled regioselectivity of Cu–Bpin additions. Organic Chemistry Frontiers, 2022, 9, 2240-2248.	4.5	9
151	Computational Design of Metal-Free Molecules for Activation of Small Molecules, Hydrogenation, and Hydroamination. Topics in Current Chemistry, 2012, 332, 231-266.	4.0	8
152	Gold-Etched Silver Nanowire Endoscopy: Toward a Widely Accessible Platform for Surface-Enhanced Raman Scattering-Based Analysis in Living Cells. Analytical Chemistry, 2021, 93, 5037-5045.	6.5	8
153	Reductive Lithiation in the Absence of Aromatic Electron Carriers. A Steric Effect Manifested on the Surface of Lithium Metal Leads to a Difference in Relative Reactivity Depending on Whether the Aromatic Electron Carrier Is Present or Absent. Journal of Organic Chemistry, 2015, 80, 8571-8582.	3.2	7
154	Surface Plasmon-Assisted Site-Specific Cutting of Silver Nanowires Using Femtosecond Laser. Advanced Materials Technologies, 2016, 1, 1600014.	5.8	7
155	Crack Formation on Crystalline Bismuth Oxychloride Thin Square Sheets by Using a Wet-Chemical Method. ChemNanoMat, 2020, 6, 759-764.	2.8	7
156	Preparation of Janus nanosheets composed of gold/palladium nanoparticles and reduced graphene oxide for highly efficient emulsion catalysis. Journal of Colloid and Interface Science, 2022, 625, 59-69.	9.4	7
157	Facile synthesis of ternary homogeneous ZnS _{1-x} Se _x nanosheets with tunable bandgaps. CrystEngComm, 2014, 16, 6823-6826.	2.6	6
158	Metal-free homolytic hydrogen activation: a quest through density functional theory computations. New Journal of Chemistry, 2016, 40, 8141-8148.	2.8	6
159	Kernel Estimation of Truncated Volterra Filter Model Based on DFP Technique and Its Application to Chaotic Time Series Prediction. Chinese Journal of Electronics, 2019, 28, 127-135.	1.5	6
160	Merging Reagent Modulation and Remote Anchimeric Assistance for Glycosylation: Highly Stereoselective Synthesis of α -Glycans up to a 30-mer. Angewandte Chemie, 2021, 133, 12705-12714.	2.0	6
161	Multiple Reaction Pathways of Eight-Membered Rhodacycles in Rh-Catalyzed Annulations of 2-Alkenyl Phenols/Anilides with Alkynes. Journal of Organic Chemistry, 2021, 86, 10484-10491.	3.2	6
162	Monitoring the Thiol/Thiophenol Molecule-Modulated Plasmon-Mediated Silver Oxidation with Dark-Field Optical Microscopy. Chemistry - A European Journal, 2022, 28, .	3.3	6

#	ARTICLE	IF	CITATIONS
163	Modulating the plasmon-mediated silver oxidation using thiophenol molecules as monitored by <i>in situ</i> SERS spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26385-26391.	2.8	5
164	Computational insights into strain-increase allylboration for alkylidenecyclopropanes. <i>Chemical Communications</i> , 2022, 58, 7034-7037.	4.1	5
165	The role of central ion in chiral recognition by taking phenylalanine as an example. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1136-1141.	0.8	4
166	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. <i>ACS Omega</i> , 2020, 5, 23931-23939.	3.5	4
167	Synthesis of Thin Bi ₉ O _{7.5} S ₆ Nanosheets for Improved Photodetection in a Wide Wavelength Range. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3748-3753.	3.3	4
168	Surface Density-of-States Engineering of Anatase TiO ₂ by Small Polyols for Enhanced Visible-Light Photocurrent Generation. <i>ACS Omega</i> , 2017, 2, 6309-6313.	3.5	3
169	Wash-induced multicolor tuning of carbon nano-dot/micro-belt hybrids with full recyclability and stable color convertibility. <i>Nanoscale</i> , 2019, 11, 14592-14597.	5.6	3
170	Tuning the Reactivity of Cyclopropenes from Living Ring-Opening Metathesis Polymerization (ROMP) to Single-Addition and Alternating ROMP. <i>Angewandte Chemie</i> , 2019, 131, 17935-17940.	2.0	3
171	Transition metal chemistry in synthetically viable alkaline earth complexes M(Cp) ₃ ⁺ (M = Ca, Sr, Ba). <i>Chemical Communications</i> , 2021, 57, 5806-5809.	4.1	3
172	Controlled growth of nano- and bio-arrays on patterned substrates. , 2010, , .		0
173	Remote excitation fluorescence correlation spectroscopy using silver nanowires. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
174	Issues Particular to Organometallic Reactions. , 2018, , 519-539.		0