Gang Lu

List of Publications by Year
in descending order

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174 papers	17,104 citations	26567 56 h-index	14156 128 g-index
177 all docs	177 docs citations	177 times ranked	23108 citing authors

#	Article	IF	Citations
1	Flexible organic electrochemical transistors for chemical and biological sensing. Nano Research, 2022, 15, 2433-2464.	5.8	29
2	Origins of regio- and stereoselectivity in Cu-catalyzed alkyne difunctionalization with CO₂ and organoboranes. Organic Chemistry Frontiers, 2022, 9, 1033-1039.	2.3	11
3	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. Nano Energy, 2022, 92, 106840.	8.2	39
4	How the electron-deficient Cp ligand facilitates Rh-catalyzed annulations with alkynes. Organic Chemistry Frontiers, 2022, 9, 979-988.	2.3	14
5	Computational study of Cu-catalyzed 1,2-hydrocarboxylation of 1,3-dienes with CO₂: Pauli repulsion-controlled regioselectivity of Cuâ€“Bpin additions. Organic Chemistry Frontiers, 2022, 9, 2240-2248.	2.3	9
6	Molecular Coadsorption of p-Hydroxythiophenol on Silver Nanoparticles Boosts the Plasmon-Mediated Decarboxylation Reaction. ACS Catalysis, 2022, 12, 2938-2946.	5.5	15
7	Palladiumâ€Catalyzed Stagewise Strainâ€Releaseâ€Driven Câ”C Activation of Bicyclo[1.1.1]pentanyl Alcohols. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
8	Realizing Ultrahigh Transconductance in Organic Electrochemical Transistor by Coâ€Doping PEDOT:PSS with Ionic Liquid and Dodecylbenzenesulfonate. Macromolecular Rapid Communications, 2022, 43, e2200212.	2.0	14
9	Monitoring the Thiol/Thiophenol Moleculeâ€Modulated Plasmonâ€Mediated Silver Oxidation with Darkâ€Field Optical Microscopy. Chemistry - A European Journal, 2022, 28, .	1.7	6
10	Computational insights into strain-increase allylborations for alkylidenecyclopropanes. Chemical Communications, 2022, 58, 7034-7037.	2.2	5
11	Total synthesis ofLentinus giganteusglycans with antitumor activitiesviastereoselective Î±-glycosylation and orthogonal one-pot glycosylation strategies. Chemical Science, 2022, 13, 7755-7764.	3.7	13
12	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.	5.0	7
13	Origins of regioselectivity in Ni-catalyzed hydrofunctionalization of alkenes via ligand-to-ligand hydrogen transfer mechanism. Chemical Communications, 2022, 58, 8650-8653.	2.2	11
14	Site-Divergent Alkenyl Câ€“H Fluoroallylation of Olefins Enabled by Tunable Rhodium Catalysis. ACS Catalysis, 2022, 12, 8857-8867.	5.5	27
15	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. Nanoscale, 2021, 13, 724-729.	2.8	17
16	Origins of Lewis acid acceleration in nickel-catalysed Câ€“H, Câ€“C and Câ€“O bond cleavage. Catalysis Science and Technology, 2021, 11, 4417-4428.	2.1	21
17	Preparation and applications of freestanding Janus nanosheets. Nanoscale, 2021, 13, 15151-15176.	2.8	21
18	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.	2.5	10

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19	Transition metal chemistry in synthetically viable alkaline earth complexes M(Cp)₃^{â^'} (M = Ca, Sr, Ba). Chemical Communications, 2021, 57, 5806-5809.	2.2	3
20	Computational study of silver-catalyzed stereoselective hydroalkylation of alkynes: Pauli repulsion controlled Z/E selectivity. Chemical Communications, 2021, 57, 6412-6415.	2.2	23
21	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.	3.2	8
22	AIE + ESIPT activity-based NIR Cu²⁺ sensor with dye participated binding strategy. Chemical Communications, 2021, 57, 7685-7688.	2.2	22
23	Direct Observation of the Light-Induced Exfoliation of Molybdenum Disulfide Sheets in Water Medium. ACS Nano, 2021, 15, 5661-5670.	7.3	21
24	Merging Reagent Modulation and Remote Anchimeric Assistance for Glycosylation: Highly Stereoselective Synthesis of Î±â€Glycans up to a 30â€mer. Angewandte Chemie, 2021, 133, 12705-12714.	1.6	6
25	Merging Reagent Modulation and Remote Anchimeric Assistance for Glycosylation: Highly Stereoselective Synthesis of Î±â€Glycans up to a 30â€mer. Angewandte Chemie - International Edition, 2021, 60, 12597-12606.	7.2	47
26	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and Ti₃C₂T_x MXene for the Monitoring of Human Activities. ACS Nano, 2021, 15, 9690-9700.	7.3	191
27	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.	1.7	6
28	Rh-Catalyzed Cascade Câ€“C/C_{olefin}â€“H Activations and Mechanistic Insight. ACS Catalysis, 2021, 11, 9136-9142.	5.5	14
29	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. Journal of Semiconductors, 2021, 42, 092601.	2.0	17
30	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO2 Reduction to CO. Catalysts, 2021, 11, 1115.	1.6	11
31	Synthesis of Thin Bi₉O_{7.5}S₆ Nanosheets for Improved Photodetection in a Wide Wavelength Range. Chemistry - an Asian Journal, 2021, 16, 3748-3753.	1.7	4
32	Plasmon-mediated photochemical transformation of inorganic nanocrystals. Applied Materials Today, 2021, 24, 101125.	2.3	14
33	Molecular Cocatalyst-Induced Enhancement of the Plasmon-Mediated Coupling of p-Nitrothiophenols at the Silver Nanoparticleâ€“Graphene Oxide Interface. ACS Applied Nano Materials, 2021, 4, 10976-10984.	2.4	10
34	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. Nano Energy, 2021, 89, 106329.	8.2	41
35	Embedding Silver Nanowires into a Hydroxypropyl Methyl Cellulose Film for Flexible Electrochromic Devices with High Electromechanical Stability. ACS Applied Materials & Interfaces, 2021, 13, 1735-1742.	4.0	25
36	Modulating the plasmon-mediated silver oxidation using thiophenol molecules as monitored by in situ SERS spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 26385-26391.	1.3	5

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37	Origin of Ligand Effects on Stereoinversion in Pd-Catalyzed Synthesis of Tetrasubstituted Olefins. Journal of Organic Chemistry, 2021, 86, 18128-18138.	1.7	11
38	MnO₂ Nanosheetâ€Assembled Hollow Polyhedron Grown on Carbon Cloth for Flexible Aqueous Zincâ€Ion Batteries. ChemSusChem, 2020, 13, 1537-1545.	3.6	122
39	Single-molecule mapping of catalytic reactions on heterostructures. Nano Today, 2020, 34, 100957.	6.2	15
40	Anodic oxidation triggered divergent 1,2- and 1,4-group transfer reactions of Î²-hydroxycarboxylic acids enabled by electrochemical regulation. Chemical Science, 2020, 11, 12021-12028.	3.7	18
41	Borophene-like boron subunits-inserted molybdenum framework of MoB2 enables stable and quick-acting Li2S6-based lithium-sulfur batteries. Energy Storage Materials, 2020, 32, 216-224.	9.5	42
42	General Dual-Switched Dynamic Singlet Fission Channels in Solvents Governed Jointly by Chromophore Structural Dynamics and Solvent Impact: Singlet Prefission Energetics Analyses. Journal of the American Chemical Society, 2020, 142, 17469-17479.	6.6	14
43	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. ACS Omega, 2020, 5, 23931-23939.	1.6	4
44	Plasmon-generated hot holes for chemical reactions. Nano Research, 2020, 13, 3183-3197.	5.8	64
45	Modulating the Plasmon-Mediated Oxidation of p-Aminothiophenol with Asymmetrically Grafted Thiol Molecules. Journal of Physical Chemistry Letters, 2020, 11, 7650-7656.	2.1	18
46	An adaptive two-scale biomedical image fusion method with statistical comparisons. Computer Methods and Programs in Biomedicine, 2020, 196, 105603.	2.6	15
47	Crack Formation on Crystalline Bismuth Oxychloride Thin Square Sheets by Using a Wetâ€Chemical Method. ChemNanoMat, 2020, 6, 759-764.	1.5	7
48	Fish Gelatin Based Triboelectric Nanogenerator for Harvesting Biomechanical Energy and Self-Powered Sensing of Human Physiological Signals. ACS Applied Materials & Interfaces, 2020, 12, 16442-16450.	4.0	100
49	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. ACS Nano, 2020, 14, 3876-3884.	7.3	86
50	Density Functional Theory Mechanistic Study of Ni-Catalyzed Reductive Alkyneâ€“Alkyne Cyclodimerization: Oxidative Cyclization versus Outer-Sphere Proton Transfer. Organic Letters, 2020, 22, 2454-2459.	2.4	18
51	Paraâ€Selective Cyanation of Arenes by Hâ€Bonded Template. Chemistry - A European Journal, 2020, 26, 11558-11564.	1.7	36
52	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. Journal of Physical Chemistry C, 2020, 124, 7914-7921.	1.5	15
53	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.	4.0	12
54	Recent developments of flexible and transparent SERS substrates. Journal of Materials Chemistry C, 2020, 8, 3956-3969.	2.7	110

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55	Wash-induced multicolor tuning of carbon nano-dot/micro-belt hybrids with full recyclability and stable color convertibility. Nanoscale, 2019, 11, 14592-14597.	2.8	3
56	Tuning the Reactivity of Cyclopropenes from Living Ringâ€Opening Metathesis Polymerization (ROMP) to Singleâ€Addition and Alternating ROMP. Angewandte Chemie - International Edition, 2019, 58, 17771-17776.	7.2	22
57	Tuning the Reactivity of Cyclopropenes from Living Ringâ€Opening Metathesis Polymerization (ROMP) to Singleâ€Addition and Alternating ROMP. Angewandte Chemie, 2019, 131, 17935-17940.	1.6	3
58	Ruthenium-Catalyzed Reductive Cleavage of Unstrained Arylâ€“Aryl Bonds: Reaction Development and Mechanistic Study. Journal of the American Chemical Society, 2019, 141, 18630-18640.	6.6	27
59	Water-mediated polyol synthesis of pencil-like sharp silver nanowires suitable for nonlinear plasmonics. Chemical Communications, 2019, 55, 11630-11633.	2.2	10
60	Silver Nanowireâ€Templated Molecular Nanopatterning and Nanoparticle Assembly for Surfaceâ€Enhanced Raman Scattering. Chemistry - A European Journal, 2019, 25, 10561-10565.	1.7	13
61	Chiral acid-catalysed enantioselective Câ^'H functionalization of toluene and its derivatives driven by visible light. Nature Communications, 2019, 10, 1774.	5.8	74
62	Catalytic enantioselective oxidative coupling of saturated ethers with carboxylic acid derivatives. Nature Communications, 2019, 10, 559.	5.8	33
63	Synthesis of 42-faceted bismuth vanadate microcrystals for enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2019, 542, 207-212.	5.0	27
64	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.	0.7	6
65	Computational exploration of substrate and ligand effects in nickel-catalyzed Câ€“Si bond carboxylation with CO2. Organic Chemistry Frontiers, 2019, 6, 3629-3635.	2.3	10
66	Effect of nanostructured silicon on surface enhanced Raman scattering. RSC Advances, 2018, 8, 6629-6633.	1.7	16
67	Imaging Heterogeneously Distributed Photoâ€Active Traps in Perovskite Single Crystals. Advanced Materials, 2018, 30, e1705494.	11.1	28
68	3D assembly of Ti₃C₂-MXene directed by water/oil interfaces. Nanoscale, 2018, 10, 3621-3625.	2.8	98
69	Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. ACS Applied Materials & Interfaces, 2018, 10, 13011-13018.	4.0	45
70	A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp3 Câ^'H arylation. Nature Chemistry, 2018, 10, 540-548.	6.6	180
71	H-bonded reusable template assisted para-selective ketonisation using soft electrophilic vinyl ethers. Nature Communications, 2018, 9, 3582.	5.8	62
72	Issues Particular to Organometallic Reactions. , 2018, , 519-539.		0

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73	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.	2.1	13
74	A flexible SERS-active film for studying the effect of non-metallic nanostructures on Raman enhancement. Nanoscale, 2018, 10, 16895-16901.	2.8	24
75	Modular ipso/ortho Difunctionalization of Aryl Bromides via Palladium/Norbornene Cooperative Catalysis. Journal of the American Chemical Society, 2018, 140, 8551-8562.	6.6	91
76	NHC Ligands Tailored for Simultaneous Regio- and Enantiocontrol in Nickel-Catalyzed Reductive Couplings. Journal of the American Chemical Society, 2017, 139, 9317-9324.	6.6	71
77	Plasmon-Mediated Surface Engineering of Silver Nanowires for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry Letters, 2017, 8, 2774-2779.	2.1	38
78	Computational Evidence for Lewis Base-Promoted CO₂ Hydrogenation to Formic Acid on Gold Surfaces. ACS Catalysis, 2017, 7, 4519-4526.	5.5	42
79	A Photoswitchable Olefin Metathesis Catalyst. Organometallics, 2017, 36, 490-497.	1.1	69
80	A Ringâ€Opening Metathesis Polymerization Catalyst That Exhibits Redoxâ€Switchable Monomer Selectivities. Chemistry - A European Journal, 2017, 23, 5994-6000.	1.7	27
81	Tridentate Directing Groups Stabilize 6-Membered Palladacycles in Catalytic Alkene Hydrofunctionalization. Journal of the American Chemical Society, 2017, 139, 15576-15579.	6.6	83
82	Surface Density-of-States Engineering of Anatase TiO₂ by Small Polyols for Enhanced Visible-Light Photocurrent Generation. ACS Omega, 2017, 2, 6309-6313.	1.6	3
83	Computational exploration of ligand effects in copper-catalyzed boracarboxylation of styrene with CO₂. Catalysis Science and Technology, 2017, 7, 5049-5054.	2.1	29
84	Computationally Guided Catalyst Design in the Type I Dynamic Kinetic Asymmetric Pausonâ€“Khand Reaction of Allenyl Acetates. Journal of the American Chemical Society, 2017, 139, 15022-15032.	6.6	42
85	Ligandâ€“Substrate Dispersion Facilitates the Copper-Catalyzed Hydroamination of Unactivated Olefins. Journal of the American Chemical Society, 2017, 139, 16548-16555.	6.6	189
86	Facet-Dependent Diol-Induced Density of States of Anatase TiO₂ Crystal Surface. ACS Omega, 2017, 2, 4032-4038.	1.6	12
87	Computational studies on the Rh-catalyzed carboxylation of a C(sp²)â€“H bond using CO₂. Catalysis Science and Technology, 2017, 7, 3539-3545.	2.1	16
88	Streptococcus himalayensis sp. nov., isolated from the respiratory tract of Marmota himalayana. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 256-261.	0.8	19
89	Metal-free homolytic hydrogen activation: a quest through density functional theory computations. New Journal of Chemistry, 2016, 40, 8141-8148.	1.4	6
90	Solvent-induced improvement of Au photo-deposition and resulting photo-catalytic efficiency of Au/TiO2. RSC Advances, 2016, 6, 97464-97468.	1.7	10

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91	Benzazetidine synthesis via palladium-catalysed intramolecular Câ˜H amination. Nature Chemistry, 2016, 8, 1131-1136.	6.6	100
92	Catalytic activation of carbonâ€“carbon bonds in cyclopentanones. Nature, 2016, 539, 546-550.	13.7	217
93	Surface Plasmonâ€Assisted Siteâ€Specific Cutting of Silver Nanowires Using Femtosecond Laser. Advanced Materials Technologies, 2016, 1, 1600014.	3.0	7
94	Copper-catalyzed asymmetric addition of olefin-derived nucleophiles to ketones. Science, 2016, 353, 144-150.	6.0	227
95	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	2.1	234
96	Super-resolution Localization and Defocused Fluorescence Microscopy on Resonantly Coupled Single-Molecule, Single-Nanorod Hybrids. ACS Nano, 2016, 10, 2455-2466.	7.3	61
97	Computational Study of Rh-Catalyzed Carboacylation of Olefins: Ligand-Promoted Rhodacycle Isomerization Enables Regioselective Câ€“C Bond Functionalization of Benzocyclobutenones. Journal of the American Chemical Society, 2015, 137, 8274-8283.	6.6	95
98	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. Nature Communications, 2015, 6, 6287.	5.8	58
99	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.	1.7	7
100	High-Performance and Long-Lived Cu/SiO₂ Nanocatalyst for CO₂ Hydrogenation. ACS Catalysis, 2015, 5, 4255-4259.	5.5	200
101	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. ACS Nano, 2015, 9, 5520-5535.	7.3	274
102	Origins of Initiation Rate Differences in Ruthenium Olefin Metathesis Catalysts Containing Chelating Benzylidenes. Journal of the American Chemical Society, 2015, 137, 5782-5792.	6.6	89
103	Mechanism Behind the Apparent Large Stokes Shift in LSSmOrange Investigated by Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 14880-14891.	1.2	11
104	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. RSC Advances, 2015, 5, 6829-6833.	1.7	28
105	Remote excitation fluorescence correlation spectroscopy using silver nanowires. Proceedings of SPIE, 2014, , .	0.8	0
106	Members of the tomato FRUITFULL MADS-box family regulate style abscission and fruit ripening. Journal of Experimental Botany, 2014, 65, 3005-3014.	2.4	113
107	Influence of Supramolecular Interactions on Electron-Transfer Photochromism of the Crystalline Adducts of 4,4â€²-Bipyridine and Carboxylic Acids. Crystal Growth and Design, 2014, 14, 2527-2531.	1.4	50
108	Photochromic Hybrid Containing In Situ-Generated Benzyl Viologen and Novel Trinuclear [Bi₃Cl₁₄]^{5â€“}: Improved Photoresponsive Behavior by the Ï€Â·Â·Â·Ï€ Interactions and Size Effect of Inorganic Oligomer. Inorganic Chemistry, 2014, 53, 5538-5545.	1.9	139

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109	Gold catalyzed hydrogenations of small imines and nitriles: enhanced reactivity of Au surface toward H₂via collaboration with a Lewis base. Chemical Science, 2014, 5, 1082-1090.	3.7	91
110	Facile synthesis of ternary homogeneous ZnS_{1â^'x}Se_x nanosheets with tunable bandgaps. CrystEngComm, 2014, 16, 6823-6826.	1.3	6
111	Manipulating the concavity of rhodium nanocubes enclosed by high-index facets via site-selective etching. Chemical Communications, 2014, 50, 1662-1664.	2.2	44
112	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. Chemical Communications, 2014, 50, 9839-9841.	2.2	34
113	Thermodynamic Stability versus Kinetic Stability: Is the Planar Hexacoordinate Carbon Species D₃h CN₃Mg₃⁺ Viable?. Journal of Physical Chemistry A, 2014, 118, 3319-3325.	1.1	23
114	MgO: an excellent catalyst support for CO oxidative coupling to dimethyl oxalate. Catalysis Science and Technology, 2014, 4, 1925-1930.	2.1	52
115	Liveâ€Cell SERS Endoscopy Using Plasmonic Nanowire Waveguides. Advanced Materials, 2014, 26, 5124-5128.	11.1	110
116	Density Functional Theory Mechanistic Study of the Reduction of CO₂ to CH₄ Catalyzed by an Ammonium Hydridoborate Ion Pair: CO₂ Activation via Formation of a Formic Acid Entity. Inorganic Chemistry, 2013, 52, 12098-12107.	1.9	65
117	Rapid and Reliable Thickness Identification of Two-Dimensional Nanosheets Using Optical Microscopy. ACS Nano, 2013, 7, 10344-10353.	7.3	359
118	Mechanical Exfoliation and Characterization of Singleâ€•and Fewâ€Layer Nanosheets of WSe₂, TaS₂, and TaSe₂. Small, 2013, 9, 1974-1981.	5.2	544
119	Improved Photochromic Properties on Viologen-Based Inorganicâ€“Organic Hybrids by Using Ï€-Conjugated Substituents as Electron Donors and Stabilizers. Inorganic Chemistry, 2013, 52, 1199-1205.	1.9	183
120	Graphene Oxide Scrolls on Hydrophobic Substrates Fabricated by Molecular Combing and Their Application in Gas Sensing. Small, 2013, 9, 382-386.	5.2	57
121	Manipulation of the Reducibility of Ceriaâ€Supported Au Catalysts by Interface Engineering. ChemCatChem, 2013, 5, 1308-1312.	1.8	11
122	Surface Modification of Smooth Poly(<scp>l</scp>-lactic acid) Films for Gelatin Immobilization. ACS Applied Materials & Interfaces, 2012, 4, 687-693.	4.0	38
123	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. Nanoscale, 2012, 4, 293-297.	2.8	185
124	D3h CN3Be3+ and CO3Li3+: viable planar hexacoordinate carbon prototypes. Physical Chemistry Chemical Physics, 2012, 14, 14760.	1.3	59
125	A computational experiment to study hydrogenations of various unsaturated compounds catalyzed by a rationally designed metal-free catalyst. Dalton Transactions, 2012, 41, 4674.	1.6	19
126	Catalytic metal-free intramolecular hydroaminations of non-activated aminoalkenes: A computational exploration. Dalton Transactions, 2012, 41, 9091.	1.6	23

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127	An Effective Method for the Fabrication of Fewâ€Layerâ€Thick Inorganic Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 9052-9056.	7.2	520
128	Preparation of MoS₂â€Polyvinylpyrrolidone Nanocomposites for Flexible Nonvolatile Rewritable Memory Devices with Reduced Graphene Oxide Electrodes. Small, 2012, 8, 3517-3522.	5.2	393
129	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
130	Chemoselective Photodeoxidization of Graphene Oxide Using Sterically Hindered Amines as Catalyst: Synthesis and Applications. ACS Nano, 2012, 6, 3027-3033.	7.3	82
131	Why the Mechanisms of Digermyne and Distannyne Reactions with H₂ Differ So Greatly. Journal of the American Chemical Society, 2012, 134, 8856-8868.	6.6	59
132	Fabrication of Singleâ€and Multilayer MoS₂ Filmâ€Based Fieldâ€Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	5.2	1,346
133	Optical Identification of Singleâ€and Fewâ€Layer MoS₂ Sheets. Small, 2012, 8, 682-686.	5.2	290
134	Goldâ€Nanoparticleâ€Embedded Polydimethylsiloxane Elastomers for Highly Sensitive Raman Detection. Small, 2012, 8, 1336-1340.	5.2	72
135	Surface-Enhanced Raman Scattering of Agâ€“Au Nanodisk Heterodimers. Journal of Physical Chemistry C, 2012, 116, 10390-10395.	1.5	31
136	Single-Layer MoS₂Phototransistors. ACS Nano, 2012, 6, 74-80.	7.3	3,103
137	High-density metallic nanogaps fabricated on solid substrates used for surface enhanced Raman scattering. Nanoscale, 2012, 4, 860-863.	2.8	43
138	Metal-free catalysts for hydrogenation of both small and large imines: a computational experiment. Dalton Transactions, 2011, 40, 1929.	1.6	25
139	Computational Mechanistic Study on C_p*Ir Complex-Mediated Acceptorless Alcohol Dehydrogenation: Bifunctional Hydrogen Transfer vs Î²-H Elimination. Organometallics, 2011, 30, 2349-2363.	1.1	74
140	On the â€œReverse Gearâ€Mechanism of the Reversible Dehydrogenation/Hydrogenation of a Nitrogen Heterocycle Catalyzed by a C_p*Ir Complex: A Computational Study. Organometallics, 2011, 30, 3131-3141.	1.1	82
141	Nanoparticle-coated PDMS elastomers for enhancement of Raman scattering. Chemical Communications, 2011, 47, 8560.	2.2	69
142	Electrochemical deposition of Cl-doped n-type Cu₂O on reduced graphene oxide electrodes. Journal of Materials Chemistry, 2011, 21, 3467-3470.	6.7	91
143	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. Journal of Physical Chemistry C, 2011, 115, 15973-15979.	1.5	50
144	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. Chemical Science, 2011, 2, 1817.	3.7	249

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145	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. Chemical Communications, 2011, 47, 10070.	2.2	16
146	Nanoscaleâ€Controlled Enzymatic Degradation of Poly(<scp>L</scp>â€lactic acid) Films Using Dipâ€Pen Nanolithography. Small, 2011, 7, 226-229.	5.2	24
147	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	5.2	980
148	Singleâ€Layer Semiconducting Nanosheets: Highâ€Yield Preparation and Device Fabrication. Angewandte Chemie - International Edition, 2011, 50, 11093-11097.	7.2	1,517
149	Designing Metalâ€Free Catalysts by Mimicking Transitionâ€Metal Pincer Templates. Chemistry - A European Journal, 2011, 17, 2038-2043.	1.7	34
150	Insight into the relative reactivity of â€œFrustrated Lewis pairsâ€•and stable carbenes in activating H2 and CH4: A comparative computational study. Physical Chemistry Chemical Physics, 2010, 12, 5268.	1.3	44
151	Encumbering the intramolecular Ï€ donation by using a bridge: A strategy for designing metal-free compounds to hydrogen activation. Science Bulletin, 2010, 55, 239-245.	1.7	38
152	Reversible Heterolytic Methane Activation of Metalâ€Free Closedâ€Shell Molecules: A Computational Proofâ€ofâ€Principle Study. European Journal of Inorganic Chemistry, 2010, 2010, 2254-2260.	1.0	35
153	Controlled growth of nano- and bio-arrays on patterned substrates. , 2010, , .		0
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