

Kuo Wei Huang

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285
papers

12,185
citations

63
h-index

96
g-index

326
ext. papers

14,136
ext. citations

8
avg, IF

6.78
L-index

#	Paper	IF	Citations
285	Formic Acid as a Hydrogen Energy Carrier. <i>ACS Energy Letters</i> , 2017 , 2, 188-195	20.1	349
284	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , 2015 , 15, 634-641	17.1	290
283	N-annulated perylene as an efficient electron donor for porphyrin-based dyes: enhanced light-harvesting ability and high-efficiency Co(II/III)-based dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 265-72	16.4	262
282	An air-stable copper reagent for nucleophilic trifluoromethylthiolation of aryl halides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1548-52	16.4	261
281	Kinetically blocked stable heptazethrene and octazethrene: closed-shell or open-shell in the ground state?. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14913-22	16.4	213
280	Enantioselective synthesis of chiral allenates by guanidine-catalyzed isomerization of 3-alkynoates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7212-3	16.4	212
279	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , 2019 , 11, 622-628	17.6	211
278	Copper-mediated C-H activation/C-S cross-coupling of heterocycles with thiols. <i>Journal of Organic Chemistry</i> , 2011 , 76, 8999-9007	4.2	208
277	Ultralong cycle stability of aqueous zinc-ion batteries with zinc vanadium oxide cathodes. <i>Science Advances</i> , 2019 , 5, eaax4279	14.3	206
276	Crystalline 2D Covalent Organic Framework Membranes for High-Flux Organic Solvent Nanofiltration. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14342-14349	16.4	198
275	Stable tetrabenzo-Chichibabin hydrocarbons: tunable ground state and unusual transition between their closed-shell and open-shell resonance forms. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14513-25	16.4	176
274	Asymmetric Mannich reaction of fluorinated ketoesters with a tryptophan-derived bifunctional thiourea catalyst. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7604-7	16.4	168
273	Strongly coupled CdS/graphene quantum dots nanohybrids for highly efficient photocatalytic hydrogen evolution: Unraveling the essential roles of graphene quantum dots. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 59-69	21.8	160
272	Catalytic mechanisms of direct pyrrole synthesis via dehydrogenative coupling mediated by PNP-Ir or PNN-Ru pincer complexes: crucial role of proton-transfer shuttles in the PNP-Ir system. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4974-91	16.4	155
271	A new class of PN3-pincer ligands for metal-ligand cooperative catalysis. <i>Coordination Chemistry Reviews</i> , 2015 , 293-294, 116-138	23.2	150
270	Soluble and stable heptazethrenebis(dicarboximide) with a singlet open-shell ground state. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11896-9	16.4	148
269	Dibenzoheptazethrene isomers with different biradical characters: an exercise of Clar's aromatic sextet rule in singlet biradicaloids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18229-36	16.4	147

268	Direct asymmetric vinylogous aldol reaction of allyl ketones with isatins: divergent synthesis of 3-hydroxy-2-oxindole derivatives. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6666-70	16.4	145
267	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , 2016 , 12, 5530-5537	11	138
266	Cooperative Effect of Silver in Copper-Catalyzed Trifluoromethylation of Aryl Iodides Using Me ₃ SiCF ₃ . <i>Organometallics</i> , 2011 , 30, 3229-3232	3.8	134
265	Synthesis of a chiral quaternary carbon center bearing a fluorine atom: enantio- and diastereoselective guanidine-catalyzed addition of fluorocarbon nucleophiles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3627-31	16.4	129
264	Highly acid-durable carbon coated Co ₃ O ₄ nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , 2016 , 25, 42-50	17.1	126
263	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017 , 8, 13592	17.4	123
262	Pentandium-catalyzed enantioselective phase-transfer conjugate addition reactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2828-31	16.4	119
261	Highly enantio- and diastereoselective reactions of α -substituted butenolides through direct vinylogous conjugate additions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10069-73	16.4	118
260	Highly enantioselective construction of tertiary thioethers and alcohols phosphine-catalyzed asymmetric α -addition reactions of 5-thiazol-4-ones and 5-oxazol-4-ones: scope and mechanistic understandings. <i>Chemical Science</i> , 2015 , 6, 4912-4922	9.4	113
259	Remote C-H Activation of Quinolines through Copper-Catalyzed Radical Cross-Coupling. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 882-92	4.5	111
258	Perylene-fused BODIPY dye with near-IR absorption/emission and high photostability. <i>Organic Letters</i> , 2011 , 13, 632-5	6.2	108
257	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , 2015 , 7, 10974-81	7.7	107
256	Enhanced Reactivities toward Amines by Introducing an Imine Arm to the Pincer Ligand: Direct Coupling of Two Amines To Form an Imine Without Oxidant. <i>Organometallics</i> , 2012 , 31, 5208-5211	3.8	107
255	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018 , 13, 345-350	28.7	106
254	The direct asymmetric vinylogous aldol reaction of furanones with β -ketoesters: access to chiral α -butenolides and glycerol derivatives. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1861-4	16.4	106
253	Perylene anhydride fused porphyrins as near-infrared sensitizers for dye-sensitized solar cells. <i>Organic Letters</i> , 2011 , 13, 3652-5	6.2	105
252	Chloride ion-catalyzed generation of difluorocarbene for efficient preparation of gem-difluorinated cyclopropenes and cyclopropanes. <i>Chemical Communications</i> , 2011 , 47, 2411-3	5.8	103
251	L-threonine-derived novel bifunctional phosphine-sulfonamide catalyst-promoted enantioselective aza-Morita-Baylis-Hillman reaction. <i>Organic Letters</i> , 2011 , 13, 1310-3	6.2	97

250	An Air-Stable Copper Reagent for Nucleophilic Trifluoromethylthiolation of Aryl Halides. <i>Angewandte Chemie</i> , 2013 , 125, 1588-1592	3.6	83
249	Dehydrogenation of Formic Acid Catalyzed by a Ruthenium Complex with an N,N-Diimine Ligand. <i>Inorganic Chemistry</i> , 2017 , 56, 438-445	5.1	82
248	Symmetrical synergy of hybrid Co ₉ S ₈ -Mo _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 32, 470-478	17.1	81
247	Benzene-fused BODIPYs: synthesis and the impact of fusion mode. <i>Chemical Communications</i> , 2013 , 49, 1217-9	5.8	81
246	Dearomatization of 3-Nitroindoles by a Phosphine-Catalyzed Enantioselective [3+2] Annulation Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5427-5431	16.4	80
245	Stepwise cyanation of naphthalene diimide for n-channel field-effect transistors. <i>Organic Letters</i> , 2012 , 14, 2964-7	6.2	80
244	N-annulated perylene fused porphyrins with enhanced near-IR absorption and emission. <i>Organic Letters</i> , 2010 , 12, 4046-9	6.2	80
243	Low overpotential and high current CO ₂ reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , 2016 , 27, 121-129	17.1	78
242	Anthracene-fused BODIPYs as near-infrared dyes with high photostability. <i>Organic Letters</i> , 2011 , 13, 6026-9	6.2	77
241	Selective Hydrogen Generation from Formic Acid with Well-Defined Complexes of Ruthenium and Phosphorus-Nitrogen PN(3)-Pincer Ligand. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1357-60	4.5	77
240	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1065-77	16.4	76
239	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. <i>Science Advances</i> , 2020 , 6,	14.3	74
238	Efficient transfer hydrogenation reaction Catalyzed by a dearomatized PN ₃ P ruthenium pincer complex under base-free Conditions. <i>Journal of Organometallic Chemistry</i> , 2012 , 700, 202-206	2.3	73
237	Using UCST Ionic Liquid as a Draw Solute in Forward Osmosis to Treat High-Salinity Water. <i>Environmental Science & Technology</i> , 2016 , 50, 1039-45	10.3	72
236	Primary amine/CSA ion pair: a powerful catalytic system for the asymmetric enamine catalysis. <i>Organic Letters</i> , 2011 , 13, 2638-41	6.2	72
235	Enantioselective [3+3] atroposelective annulation catalyzed by N-heterocyclic carbenes. <i>Nature Communications</i> , 2018 , 9, 611	17.4	71
234	Thiophene-fused tetracene diimide with low band gap and ambipolar behavior. <i>Organic Letters</i> , 2011 , 13, 5960-3	6.2	71
233	Hydrogenation of Esters Catalyzed by Ruthenium PN ₃ -Pincer Complexes Containing an Aminophosphine Arm. <i>Organometallics</i> , 2014 , 33, 4152-4155	3.8	69

232	meso-Substituted bisanthrenes as soluble and stable near-infrared dyes. <i>Journal of Organic Chemistry</i> , 2010 , 75, 856-63	4.2	69
231	Soluble and stable zethrenebis(dicarboximide) and its quinone. <i>Organic Letters</i> , 2010 , 12, 4690-3	6.2	68
230	Single pot selective hydrogenation of furfural to 2-methylfuran over carbon supported iridium catalysts. <i>Green Chemistry</i> , 2018 , 20, 2027-2037	10	66
229	Mild copper-catalyzed trifluoromethylation of terminal alkynes using an electrophilic trifluoromethylating reagent. <i>Tetrahedron</i> , 2012 , 68, 2527-2531	2.4	66
228	PN3(P)-Pincer Complexes: Cooperative Catalysis and Beyond. <i>ACS Catalysis</i> , 2019 , 9, 1619-1629	13.1	65
227	Bis-N-annulated quaterrylenebis(dicarboximide) as a new soluble and stable near-infrared dye. <i>Organic Letters</i> , 2009 , 11, 4508-11	6.2	65
226	Ni-Sn-Supported ZrO Catalysts Modified by Indium for Selective CO Hydrogenation to Methanol. <i>ACS Omega</i> , 2018 , 3, 3688-3701	3.9	64
225	Molecular dynamics simulations on gate opening in ZIF-8: identification of factors for ethane and propane separation. <i>Langmuir</i> , 2013 , 29, 8865-72	4	64
224	Symmetric synergy of hybrid CoS ₂ /WS ₂ electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15552-15558	13	63
223	A concise, efficient synthesis of sugar-based benzothiazoles through chemoselective intramolecular C ^β coupling. <i>Chemical Science</i> , 2012 , 3, 2388	9.4	63
222	Bisindeno-annulated pentacenes with exceptionally high photo-stability and ordered molecular packing: simple synthesis by a regio-selective Scholl reaction. <i>Chemical Communications</i> , 2015 , 51, 3604-7	5.8	62
221	Cyanated diazatetracene diimides with ultrahigh electron affinity for n-channel field effect transistors. <i>Organic Letters</i> , 2013 , 15, 1194-7	6.2	61
220	Highly enantio- and diastereoselective synthesis of [methyl- ¹³ C]-monofluoromethyl-substituted alcohols. <i>Chemistry - A European Journal</i> , 2011 , 17, 8066-70	4.8	60
219	Asymmetric Mannich Reaction of Fluorinated Ketoesters with a Tryptophan-Derived Bifunctional Thiourea Catalyst. <i>Angewandte Chemie</i> , 2009 , 121, 7740-7743	3.6	60
218	Carbon Dioxide Reduction by Pincer Rhodium η^2 -Dihydrogen Complexes: Hydrogen-Binding Modes and Mechanistic Studies by Density Functional Theory Calculations. <i>Organometallics</i> , 2007 , 26, 508-513	3.8	59
217	Super-heptazethrene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8615-9	16.4	59
216	Cyclopentadienyl Molybdenum(II/VI) N-Heterocyclic Carbene Complexes: Synthesis, Structure, and Reactivity under Oxidative Conditions. <i>Organometallics</i> , 2010 , 29, 1924-1933	3.8	56
215	A kinetically blocked 1,14:11,12-dibenzopentacene: a persistent triplet diradical of a non-Kekulé polycyclic benzenoid hydrocarbon. <i>Chemical Science</i> , 2014 , 5, 1908	9.4	55

214	Antiaromatic bisindeno-[n]thienoacenes with small singlet biradical characters: syntheses, structures and chain length dependent physical properties. <i>Chemical Science</i> , 2014 , 5, 4490-4503	9.4	53
213	Dianthraceno[a,e]pentalenes: synthesis, crystallographic structures and applications in organic field-effect transistors. <i>Chemical Communications</i> , 2015 , 51, 503-6	5.8	52
212	Metal-Ligand Cooperative Reactivity in the (Pseudo)-Dearomatized PN(P) Systems: The Influence of the Zwitterionic Form in Dearomatized Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13442-13449	16.4	52
211	Direct Asymmetric Vinylogous Aldol Reaction of Allyl Ketones with Isatins: Divergent Synthesis of 3-Hydroxy-2-Oxindole Derivatives. <i>Angewandte Chemie</i> , 2013 , 125, 6798-6802	3.6	51
210	Lateral extension of π conjugation along the bay regions of bisanthene through a Diels-Alder cycloaddition reaction. <i>Chemistry - A European Journal</i> , 2011 , 17, 14672-80	4.8	51
209	Enantioselective protonation of itaconimides with thiols and the rotational kinetics of the axially chiral C-N bond. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 1741-4	4.5	51
208	A soluble and stable quinoidal bisanthene with NIR absorption and amphoteric redox behavior. <i>Organic Letters</i> , 2009 , 11, 4854-7	6.2	49
207	meso-Ester and carboxylic acid substituted BODIPYs with far-red and near-infrared emission for bioimaging applications. <i>Chemistry - A European Journal</i> , 2014 , 20, 2301-10	4.8	47
206	Z-Shaped Pentaleno-Acene Dimers with High Stability and Small Band Gap. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2693-6	16.4	46
205	Asymmetric NHC-catalyzed aza-Diels-Alder reactions: highly enantioselective route to β -amino acid derivatives and DFT calculations. <i>Organic Letters</i> , 2014 , 16, 3872-5	6.2	44
204	Homolysis of weak Ti-O bonds: experimental and theoretical studies of titanium oxygen bonds derived from stable nitroxyl radicals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3807-16	16.4	44
203	Diverse catalytic reactivity of a dearomatized PNP*-nickel hydride pincer complex towards CO reduction. <i>Chemical Communications</i> , 2018 , 54, 11395-11398	5.8	43
202	N-Annulated perylene substituted zinc porphyrins with different linking modes and electron acceptors for dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8428-8434	13	43
201	para-Quinodimethane-bridged perylene dimers and pericondensed quaterrylenes: the effect of the fusion mode on the ground states and physical properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 11410-20	4.8	42
200	Synthesis of a Chiral Quaternary Carbon Center Bearing a Fluorine Atom: Enantio- and Diastereoselective Guanidine-Catalyzed Addition of Fluorocarbon Nucleophiles. <i>Angewandte Chemie</i> , 2009 , 121, 3681-3685	3.6	42
199	Fast-Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex. <i>Advanced Materials</i> , 2020 , 32, e1904634	24	41
198	Ruthenium(II) pincer complexes with oxazoline arms for efficient transfer hydrogenation reactions. <i>Tetrahedron Letters</i> , 2012 , 53, 4409-4412	2	40
197	Synthesis and molecular structure of titanium complexes containing a reduced TEMPO radical. <i>Chemical Communications</i> , 2002 , 502-3	5.8	40

196	Selective Catalytic Hydrogenation of Arenols by a Well-Defined Complex of Ruthenium and Phosphorus-Nitrogen PN3Pincer Ligand Containing a Phenanthroline Backbone. <i>ACS Catalysis</i> , 2017 , 7, 4446-4450	13.1	39
195	Stable 7,14-disubstituted-5,12-dithiapentacenes with quinoidal conjugation. <i>Organic Letters</i> , 2014 , 16, 3966-9	6.2	39
194	Efficient SN2 Fluorination of Primary and Secondary Alkyl Bromides by Copper(I) Fluoride Complexes. <i>Organometallics</i> , 2013 , 32, 6587-6592	3.8	39
193	N-annulated perylene-based push-pull-type sensitizers. <i>Organic Letters</i> , 2015 , 17, 724-7	6.2	39
192	Highly Enantio- and Diastereoselective Reactions of α -Substituted Butenolides Through Direct Vinylogous Conjugate Additions. <i>Angewandte Chemie</i> , 2012 , 124, 10216-10220	3.6	39
191	The origin of enantioselectivity in the L-threonine-derived phosphine-sulfonamide catalyzed aza-Morita-Baylis-Hillman reaction: effects of the intramolecular hydrogen bonding. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4818-24	3.9	39
190	A rationally designed amino-borane complex in a metal organic framework: a novel reusable hydrogen storage and size-selective reduction material. <i>Chemical Communications</i> , 2015 , 51, 7610-3	5.8	38
189	All-Carbon Quaternary Stereocenters β o Azaarenes via Radical-Based Asymmetric Olefin Difunctionalization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19451-19456	16.4	38
188	Conversion of CO2 from air into formate using amines and phosphorus-nitrogen PN3P-Ru(II) pincer complexes. <i>Green Chemistry</i> , 2018 , 20, 4201-4205	10	37
187	Performance and Stability Improvement of Layered NCM Lithium-Ion Batteries at High Voltage by a Microporous AlO Sol-Gel Coating. <i>ACS Omega</i> , 2019 , 4, 13972-13980	3.9	37
186	Doubly and triply linked porphyrin-perylene monoimides as near IR dyes with large dipole moments and high photostability. <i>Journal of Organic Chemistry</i> , 2011 , 76, 661-4	4.2	37
185	Enabling storage and utilization of low-carbon electricity: power to formic acid. <i>Energy and Environmental Science</i> , 2021 , 14, 1194-1246	35.4	37
184	Synthesis of cis- and trans-Diisothiocyanato-Bis(NHC) Complexes of Nickel(II) and Applications in the Kumada-Corriu Reaction. <i>Organometallics</i> , 2010 , 29, 3746-3752	3.8	36
183	Guanidine-catalyzed enantioselective desymmetrization of meso-aziridines. <i>Chemical Communications</i> , 2011 , 47, 3897-9	5.8	36
182	Cobalt-Catalyzed Selective Hydrogenation of Nitriles to Secondary Imines. <i>Organic Letters</i> , 2018 , 20, 6430-6435	6.2	36
181	An Update on Formic Acid Dehydrogenation by Homogeneous Catalysis. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 937-946	4.5	35
180	Synthesis of Highly Reactive Polyisobutylene Catalyzed by EtAlCl2/Bis(2-chloroethyl) Ether Soluble Complex in Hexanes. <i>Macromolecules</i> , 2014 , 47, 1959-1965	5.5	35
179	Ethylene polymerization by PN3-type pincer chromium(III) complexes. <i>Journal of Molecular Catalysis A</i> , 2014 , 395, 100-107		35

- 178 Tetrakis(4-tert-butylphenyl) substituted and fused quinoidal porphyrins. *Chemical Communications*, **2012**, 48, 7684-6 5.8 35
- 177 Polymerization of 1,3-butadiene catalyzed by pincer cobalt(II) complexes derived from 2-(1-arylimino)-6-(pyrazol-1-yl)pyridine ligands. *Applied Catalysis A: General*, **2013**, 464-465, 35-42 5.1 35
- 176 The Direct Asymmetric Vinylogous Aldol Reaction of Furanones with β -Ketoesters: Access to Chiral β -Butenolides and Glycerol Derivatives. *Angewandte Chemie*, **2011**, 123, 1901-1904 3.6 35
- 175 Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. *Journal of Organic Chemistry*, **2016**, 81, 2911-9 4.2 34
- 174 Towards meso-Ester BODIPYs with Aggregation-Induced Emission Properties: The Effect of Substitution Positions. *Chemistry - an Asian Journal*, **2015**, 10, 1631-4 4.5 34
- 173 Homocoupling of benzyl halides catalyzed by POCOP π -backbonded pincer complexes. *Tetrahedron*, **2012**, 68, 6152-6157 2.4 34
- 172 Highly enantio- and diastereoselective allylic alkylation of Morita-Baylis-Hillman carbonates with allyl ketones. *Journal of Organic Chemistry*, **2013**, 78, 5067-72 4.2 34
- 171 Coordination chemistry of stable radicals: homolysis of a titanium-oxygen bond. *Journal of the American Chemical Society*, **2002**, 124, 8200-1 16.4 34
- 170 Benzo[4,5]cyclohepta[1,2-]fluorene: an isomeric motif for pentacene containing linearly fused five-, six- and seven-membered rings. *Chemical Science*, **2016**, 7, 6176-6181 9.4 33
- 169 A green approach to ethyl acetate: quantitative conversion of ethanol through direct dehydrogenation in a Pd-Ag membrane reactor. *Chemistry - A European Journal*, **2012**, 18, 15940-3 4.8 33
- 168 Room-temperature base-free copper-catalyzed trifluoromethylation of organotrifluoroborates to trifluoromethylarenes. *Tetrahedron*, **2012**, 68, 9949-9953 2.4 33
- 167 Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. *Chemical Science*, **2020**, 11, 5434-5440 9.4 32
- 166 Benzo-thia-fused π -thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity anti-aromaticity. *Chemical Science*, **2016**, 7, 3036-3046 9.4 31
- 165 Indolo[2,3-b]carbazoles with tunable ground states: how Clar's aromatic sextet determines the singlet biradical character. *Chemical Science*, **2014**, 5, 4944-4952 9.4 31
- 164 Bipodal surface organometallic complexes with surface N-donor ligands and application to the catalytic cleavage of C-H and C-C bonds in n-butane. *Journal of the American Chemical Society*, **2013**, 135, 17943-51 16.4 31
- 163 Theoretical Mechanistic Investigation into Metal-Free Alternating Copolymerization of CO₂ and Epoxides: The Key Role of Triethylborane. *Macromolecules*, **2018**, 51, 5600-5607 5.5 30
- 162 Synthesis of Copper Hydroxide Branched Nanocages and Their Transformation to Copper Oxide. *Journal of Physical Chemistry C*, **2014**, 118, 19374-19379 3.8 30
- 161 Electronic effects of ruthenium-catalyzed [3+2]-cycloaddition of alkynes and azides. *Tetrahedron*, **2010**, 66, 9415-9420 2.4 30

160	Metal and ligand K-edge XAS of titanium-TEMPO complexes: determination of oxidation states and insights into Ti-O bond homolysis. <i>Inorganic Chemistry</i> , 2006 , 45, 4468-77	5.1	30
159	The Insignificant Role of Dry Reforming of Methane in CO ₂ Emission Relief. <i>ACS Energy Letters</i> , 2020 , 5, 2881-2885	20.1	30
158	Unusual Intramolecular Hydrogen Transfer in 3,5-Di(triphenylethylenyl) BODIPY Synthesis and 1,2-Migratory Shift in Subsequent Scholl Type Reaction. <i>Organic Letters</i> , 2015 , 17, 4168-71	6.2	29
157	Copper-catalyzed trifluoromethylation of arylsulfinate salts using an electrophilic trifluoromethylation reagent. <i>Tetrahedron</i> , 2013 , 69, 2628-2632	2.4	29
156	Dipolar Quinoidal Acene Analogues as Stable Isoelectronic Structures of Pentacene and Nonacene. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14412-6	16.4	29
155	Synthesis of trifluoromethylated acetylenes via copper-catalyzed trifluoromethylation of alkynyltrifluoroborates. <i>Tetrahedron Letters</i> , 2012 , 53, 6646-6649	2	29
154	Lewis base catalyzed enantioselective allylic hydroxylation of Morita-Baylis-Hillman carbonates with water. <i>Journal of Organic Chemistry</i> , 2011 , 76, 6894-900	4.2	29
153	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. <i>Advanced Materials</i> , 2017 , 29, 1605826	24	28
152	C-H and H-H bond activation via ligand dearomatization/rearomatization of a PNIP-rhodium(I) complex. <i>Dalton Transactions</i> , 2015 , 44, 15111-5	4.3	28
151	Kinetic evidence of an apparent negative activation enthalpy in an organocatalytic process. <i>Scientific Reports</i> , 2013 , 3, 2557	4.9	28
150	Selective formation of bicyclic guanidinium chloride complexes: implication of the bifunctionality of guanidines. <i>Tetrahedron Letters</i> , 2009 , 50, 1560-1562	2	28
149	Carbon-to-metal hydrogen atom transfer: direct observation using time-resolved infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15684-5	16.4	28
148	Unrealistic energy and materials requirement for direct air capture in deep mitigation pathways. <i>Nature Communications</i> , 2020 , 11, 3287	17.4	28
147	Single-Site Ruthenium Pincer Complex Knitted into Porous Organic Polymers for Dehydrogenation of Formic Acid. <i>ChemSusChem</i> , 2018 , 11, 3591-3598	8.3	28
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12	Organic Semiconductors: Fast-Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex (Adv. Mater. 2/2020). <i>Advanced Materials</i> , 2020 , 32, 2070015	24	1
11	N-Heterocyclic Carbene-Catalyzed Vinylogous Mukaiyama Aldol Reaction of β -Keto Esters and β -Trifluoromethyl Ketones. <i>Synthesis</i> , 2015 , 48, 79-84	2.9	1
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9	Tailored pore size and microporosity of covalent organic framework (COF) membranes for improved molecular separation 2021 , 1, 100008		1
8	Screening and design of active metals on dendritic mesoporous Ce _{0.3} Zr _{0.7} O ₂ for efficient CO ₂ hydrogenation to methanol. <i>Fuel</i> , 2022 , 317, 123471	7.1	0
7	Efficient and chemoselective hydrogenation of aldehydes catalyzed by well-defined PN-pincer manganese(II) catalyst precursors: an application in furfural conversion. <i>Chemical Communications</i> , 2021 , 57, 11815-11818	5.8	0
6	A Career in Catalysis: Jean-Marie M. Basset. <i>ACS Catalysis</i> , 4961-4977	13.1	0
5	Alkyl substituted 4-N-oxazadisilane cations: A new family of Si protic ionic liquids and its application on esterification reactions. <i>Tetrahedron Letters</i> , 2020 , 61, 151941	2	
4	Role of noble metal catalysts for transformation of bio-based platform molecules 2022 , 641-672		
3	Synthesis and characterization of second-generation phosphorus-nitrogen PN3P-rhodium (I) pincer complexes via ligand post-modification. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1399-1407	1.3	
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1	Power to formic acid 2021 , 169-210		