

Kuo Wei Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Role of noble metal catalysts for transformation of bio-based platform molecules 2022 , 641-672		
284	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
283	Inner-sphere electron transfer at the ruthenium-azo interface.. <i>Dalton Transactions</i> , 2022 ,	4.3	2
282	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium.. <i>ACS Nano</i> , 2022 ,	16.7	6
281	Surface Modification of Two-Dimensional Photocatalysts for Solar Energy Conversion.. <i>Advanced Materials</i> , 2022 , e2200180	24	18
280	PdCu supported on dendritic mesoporous CeZrO as superior catalysts to boost CO hydrogenation to methanol. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	4
279	Redox induced oxidative C-C coupling of non-innocent bis(heterocyclo)methanides. <i>Dalton Transactions</i> , 2021 , 50, 16647-16659	4.3	2
278	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
277	Understanding Halide Counterion Effects in Enantioselective Ruthenium-Catalyzed Carbonyl (EArlyl)allylation: Alkynes as Latent Allenes and Trifluoroethanol-Enhanced Turnover in The Conversion of Ethanol to Higher Alcohols via Hydrogen Auto-transfer. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14709-14717	16.4	2
276	Redox-Neutral Imination of Alcohol with Azide: A Sustainable Alternative to the Staudinger/Aza-Wittig Reaction. <i>ACS Catalysis</i> , 2021 , 11, 4071-4076	13.1	2
275	Optically and Electrocatalytically Decoupled Si Photocathodes with a Porous Carbon Nitride Catalyst for Nitrogen Reduction with Over 61.8% Faradaic Efficiency. <i>Advanced Materials</i> , 2021 , 33, e2100812	24	11
274	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7144-7153	16.4	15
273	Synthesis and characterization of second-generation phosphorus-nitrogen PN ₃ P-rhodium (I) pincer complexes via ligand post-modification. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1399-1407	1.3	
272	Electrocatalytic Water Oxidation by a Phosphorus-Nitrogen O ² PN-Pincer Cobalt Complex. <i>Inorganic Chemistry</i> , 2021 , 60, 614-622	5.1	7
271	Aromaticity in catalysis: metal ligand cooperation via ligand dearomatization and rearomatization. <i>Chemical Communications</i> , 2021 , 57, 3070-3082	5.8	14
270	Power to formic acid 2021 , 169-210		
269	Tunable Selectivity for Electrochemical CO ₂ Reduction by Bimetallic Cu ₂ Sn Catalysts: Elucidating the Roles of Cu and Sn. <i>ACS Catalysis</i> , 2021 , 11, 11103-11108	13.1	23

268	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
267	Continuous electrical pumping membrane process for seawater lithium mining. <i>Energy and Environmental Science</i> , 2021 , 14, 3152-3159	35.4	18
266	Tailored pore size and microporosity of covalent organic framework (COF) membranes for improved molecular separation 2021 , 1, 100008		1
265	Mechanistic elucidation of the role of metal oxidation states in nickel mediated electrocatalytic coupling of benzyl halides. <i>Green Synthesis and Catalysis</i> , 2020 , 1, 143-149	9.3	2
264	All-Carbon Quaternary Stereocenters to Azaarenes via Radical-Based Asymmetric Olefin Difunctionalization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19451-19456	16.4	38
263	Pt-confinement catalyst with dendritic hierarchical pores on excellent sulfur-resistance for hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Green Energy and Environment</i> , 2020 , 7, 324-324	5.7	1
262	Selective catalytic transformation of polystyrene into ethylbenzene over Fe-Cu-Co/Alumina. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 345-350	4.3	1
261	Ligand-centered reactivity of a pseudo-dearomatized phosphorus-nitrogen PN3P* rhodium complex towards molecular oxygen at room temperature. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2017-2022	6.8	2
260	An Update on Formic Acid Dehydrogenation by Homogeneous Catalysis. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 937-946	4.5	35
259	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie</i> , 2020 , 132, 5379-5383	3.6	4
258	Asymmetric Three-Component Heck Arylation/Amination of Nonconjugated Cycloienes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5341-5345	16.4	13
257	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
256	Catalytic Asymmetric Formal [3+2] Cycloaddition of Azoalkenes with 3-Vinylindoles: Synthesis of 2,3-Dihydropyrroles. <i>IScience</i> , 2020 , 23, 100873	6.1	14
255	Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. <i>Chemical Science</i> , 2020 , 11, 5434-5440	9.4	32
254	Dendritic mesoporous composites with center-radial pores assembled by TS-1 nanocrystals to enhance hydrodesulfurization activity of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Journal of Catalysis</i> , 2020 , 384, 136-146	7.3	17
253	Alkyl substituted 4-N-oxazadisilinanone cations: A new family of Si protic ionic liquids and its application on esterification reactions. <i>Tetrahedron Letters</i> , 2020 , 61, 151941	2	
252	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
251	The Importance of Metal-Ligand Cooperativity in the Phosphorus-Nitrogen PN3P Platform: A Computational Study on Mn-Catalyzed Pyrrole Synthesis. <i>Organometallics</i> , 2020 , 39, 18-24	3.8	5

250	Unrealistic energy and materials requirement for direct air capture in deep mitigation pathways. <i>Nature Communications</i> , 2020 , 11, 3287	17.4	28
249	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. <i>Science Advances</i> , 2020 , 6,	14.3	74
248	Structural Screening and Design of Dendritic Micro-Mesoporous Composites for Efficient Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40404-40414	9.5	12
247	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ /WSe ₂ Vertical van der Waals Heterojunctions 2020 , 2, 1351-1359		5
246	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
245	One Pot Hydrogenation of Furfural to 2-Methyl Tetrahydrofuran over Supported Mono- and Bi-metallic Catalysts. <i>ChemistrySelect</i> , 2020 , 5, 9590-9600	1.8	4
244	Mesoporous silica-supported V-substituted heteropoly acid for efficient selective conversion of glycerol to formic acid. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 1-8	4.3	6
243	Ultralong cycle stability of aqueous zinc-ion batteries with zinc vanadium oxide cathodes. <i>Science Advances</i> , 2019 , 5, eaax4279	14.3	206
242	Selective carbonylation of benzene to benzaldehyde using a phosphorus/nitrogen PN ₃ PnRhodium(I) complex. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 721-724	5.2	9
241	Nonoxidative Dehydrogenation of Methanol to Methyl Formate through Highly Stable and Reusable CuMgO-Based Catalysts. <i>ACS Omega</i> , 2019 , 4, 1854-1860	3.9	8
240	Electrochemical Conversion of CO ₂ to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , 2019 , 4, 600-605	20.1	6
239	Cyclometalated Iridium-PhanePhos Complexes Are Active Catalysts in Enantioselective Allene-Fluoral Reductive Coupling and Related Alcohol-Mediated Carbonyl Additions That Form Acyclic Quaternary Carbon Stereocenters. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2087-2096	16.4	25
238	Solvent effects on high-pressure hydrogen gas generation by dehydrogenation of formic acid using ruthenium complexes. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28507-28513	6.7	5
237	Auto-combustion synthesis and characterization of perovskite-type LaFeO ₃ nanocrystals prepared via different routes. <i>Ceramics International</i> , 2019 , 45, 16530-16539	5.1	13
236	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20752-20761	9.5	14
235	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
234	Beyond the PN ₃ (P) system: Synthesis of non-symmetrical PONNP-pincer ligands and a unique Ni/Ag bimetallic complex containing a short Ag-Ag distance. <i>Journal of the Chinese Chemical Society</i> , 2019 , 66, 455-458	1.5	1
233	Computationally guided design of a new Rh catalyst for selective formic acid dehydrogenation: Validation with caution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28421-28429	6.7	4

232	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
231	Importance of thorough conformational analysis in modelling transition metal-mediated reactions: Case studies on pincer complexes containing phosphine groups. <i>Journal of Saudi Chemical Society</i> , 2019 , 23, 1206-1218	4.3	5
230	Interrogating the steric outcome during H heterolysis: in-plane steric effects in the regioselective protonation of the PNP-pincer ligand. <i>Dalton Transactions</i> , 2019 , 48, 12817-12821	4.3	3
229	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
228	CO hydrogenation by phosphorus-nitrogen PNP-pincer iridium hydride complexes: elucidation of the deactivation pathway. <i>Dalton Transactions</i> , 2019 , 48, 12812-12816	4.3	7
227	Chemistry of Anilido Phosphine Complexes of Nickel. <i>Chemistry Letters</i> , 2019 , 48, 811-819	1.7	2
226	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
225	Preparation and Activity of Copper-Gallium Nanocomposite Catalysts for Carbon Dioxide Hydrogenation to Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21331-21340	3.9	20
224	PN ₃ (P)-Pincer Complexes: Cooperative Catalysis and Beyond. <i>ACS Catalysis</i> , 2019 , 9, 1619-1629	13.1	65
223	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
222	Nitrogen atom transfer mediated by a new PNP-pincer nickel core via a putative nitrido nickel intermediate. <i>Chemical Communications</i> , 2018 , 54, 3940-3943	5.8	14
221	Synthesis and Characterization of Branched fcc/hcp Ruthenium Nanostructures and Their Catalytic Activity in Ammonia Borane Hydrolysis. <i>Crystal Growth and Design</i> , 2018 , 18, 1509-1516	3.5	15
220	Enantioselective [3+3] atroposelective annulation catalyzed by N-heterocyclic carbenes. <i>Nature Communications</i> , 2018 , 9, 611	17.4	71
219	Extending the Second-Generation Phosphorus-Nitrogen PN ₃ -Pincer Ligand Family through Ligand Post-Modification. <i>Journal of the Chinese Chemical Society</i> , 2018 , 65, 60-64	1.5	10
218	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
217	Single pot selective hydrogenation of furfural to 2-methylfuran over carbon supported iridium catalysts. <i>Green Chemistry</i> , 2018 , 20, 2027-2037	10	66
216	Conversion of CO ₂ from air into formate using amines and phosphorus-nitrogen PN ₃ P-Ru(II) pincer complexes. <i>Green Chemistry</i> , 2018 , 20, 4201-4205	10	37
215	Theoretical Mechanistic Investigation into Metal-Free Alternating Copolymerization of CO ₂ and Epoxides: The Key Role of Triethylborane. <i>Macromolecules</i> , 2018 , 51, 5600-5607	5.5	30

214	Selective conversion of polystyrene into renewable chemical feedstock under mild conditions. <i>Waste Management</i> , 2018 , 78, 871-879	8.6	11
213	Metathetic Oxidation of 2-Butenes to Acetaldehyde by Molecular Oxygen Using the Single-Site Olefin Metathesis Catalyst (SiO) ₂ Mo(O) ₂ . <i>ACS Catalysis</i> , 2018 , 8, 7549-7555	13.1	15
212	Dimerization of Terminal Aryl Alkynes Catalyzed by Iron(II) Amine-Pyrazolyl Tripodal Complexes with / Selectivity Controlled by -Butoxide. <i>ACS Omega</i> , 2018 , 3, 5071-5077	3.9	11
211	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
210	Selective Production of Oxygenates from Carbon Dioxide Hydrogenation over a Mesoporous-Silica-Supported Copper-Gallium Nanocomposite Catalyst. <i>ChemCatChem</i> , 2018 , 10, 1360-1369	5.2	8
209	Enhanced Reactivity of Aluminum Complexes Containing P-Bridged Biphenolate Ligands in Ring-Opening Polymerization Catalysis. <i>Frontiers in Chemistry</i> , 2018 , 6, 607	5	2
208	Chlorine-functionalized keto-enamine-based covalent organic frameworks for CO ₂ separation and capture. <i>CrystEngComm</i> , 2018 , 20, 7621-7625	3.3	16
207	Structural analysis of transient reaction intermediate in formic acid dehydrogenation catalysis using two-dimensional IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12395-12400	11.5	12
206	Cobalt-Catalyzed Selective Hydrogenation of Nitriles to Secondary Imines. <i>Organic Letters</i> , 2018 , 20, 6430-6435	6.2	36
205	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
204	Enabling CO Insertion into Nitrostyrenes beyond Reduction for Selective Access to Indolin-2-one and Dihydroquinolin-2-one Derivatives. <i>ACS Catalysis</i> , 2018 , 8, 10340-10348	13.1	16
203	A Pseudodearomatized PNP*-Ni-H Complex as a Ligand and Nucleophilic Catalyst. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14969-14977	4.2	18
202	Glaulactams A-C, daphniphyllum alkaloids from <i>Daphniphyllum glaucescens</i> . <i>Scientific Reports</i> , 2018 , 8, 15417	4.9	2
201	Efficient electrochemical transformation of CO to C/C chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
200	Monomeric nickel hydroxide stabilized by a sterically demanding phosphorus-nitrogen PNP-pincer ligand: synthesis, reactivity and catalysis. <i>Dalton Transactions</i> , 2018 , 47, 16057-16065	4.3	13
199	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
198	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. <i>Advanced Materials</i> , 2017 , 29, 1605826	24	28
197	Synthesis of group 10 metal complexes with a new unsymmetrical PN ₃ P-pincer ligand through ligand post-modification: Structure and reactivity. <i>Journal of Organometallic Chemistry</i> , 2017 , 845, 25-29 ^{2,3}	2.3	12

196	Symmetrical synergy of hybrid Co ₉ S ₈ -MoS _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 32, 470-478	17.1	81
195	Controlled polymerization of isoprene promoted by a type of hemilabile XPN ₃ (X = O, S) ligand supported cobalt(II) complexes: the role of a hemilabile donor on the level of control. <i>Polymer Chemistry</i> , 2017 , 8, 1805-1814	4.9	26
194	DFT mechanistic study of the selective terminal C-H activation of n-pentane with a tungsten allyl nitrosyl complex. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 558-562	4.3	3
193	Catalytic Intermolecular Cross-Couplings of Azides and LUMO-Activated Unsaturated Acyl Azoliums. <i>ACS Catalysis</i> , 2017 , 7, 2139-2144	13.1	13
192	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO ₂ reduction. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 708-712	4.3	6
191	The synthesis, structure, and properties of 5,6,11,12-tetraaryllindeno[1,2-b]fluorenes and their applications as donors for organic photovoltaic devices. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 675-681	5.2	8
190	Strongly coupled CdS/graphene quantum dots nano hybrids 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
189	Selective Catalytic Hydrogenation of Arenols by a Well-Defined Complex of Ruthenium and Phosphorus-Nitrogen PN ₃ Pincer Ligand Containing a Phenanthroline Backbone. <i>ACS Catalysis</i> , 2017 , 7, 4446-4450	13.1	39
188	Renewable aromatics from the degradation of polystyrene under mild conditions. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 983-989	4.3	21
187	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
186	Formic Acid as a Hydrogen Energy Carrier. <i>ACS Energy Letters</i> , 2017 , 2, 188-195	20.1	349
185	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
184	Spatially isolated palladium in porous organic polymers by direct knitting for versatile organic transformations. <i>Journal of Catalysis</i> , 2017 , 355, 101-109	7.3	25
183	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
182	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
181	Osmotic Heat Engine Using Thermally Responsive Ionic Liquids. <i>Environmental Science & Technology</i> , 2017 , 51, 9403-9409	10.3	15
180	A New Role for CO ₂ : Controlling Agent of the Anionic Ring-Opening Polymerization of Cyclic Esters. <i>Macromolecules</i> , 2017 , 50, 6752-6761	5.5	5
179	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , 2016 , 12, 5530-5537	11	138

178	ZIF-8 gate tuning via terminal group modification: A computational study. <i>Chemical Physics Letters</i> , 2016 , 658, 270-275	2.5	7
177	Non-Classical C-H...X Hydrogen Bonding and Its Role in Asymmetric Organocatalysis. <i>Synthesis</i> , 2016 , 48, 3449-3458	2.9	20
176	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
175	Editors' Choice Growth of Layered WS ₂ Electrocatalysts for Highly Efficient Hydrogen Production Reaction. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, Q3067-Q3071	2	7
174	Regio- and stereo-selective polymerization of 1,3-butadiene catalyzed by phosphorus-nitrogen PN-pincer cobalt(ii) complexes. <i>Dalton Transactions</i> , 2016 , 45, 19399-19407	4.3	22
173	Atomic-level organization of vicinal acid-base pairs through the chemisorption of aniline and derivatives onto mesoporous SBA15. <i>Chemical Science</i> , 2016 , 7, 6099-6105	9.4	12
172	Benzo[4,5]cyclohepta[1,2-]fluorene: an isomeric motif for pentacene containing linearly fused five-, six- and seven-membered rings. <i>Chemical Science</i> , 2016 , 7, 6176-6181	9.4	33
171	Environmentally benign synthesis of amides and ureas via catalytic dehydrogenation coupling of volatile alcohols and amines in a Pd-Ag membrane reactor. <i>Journal of Membrane Science</i> , 2016 , 515, 212-218	9.6	6
170	Z-Shaped Pentaleno-Acene Dimers with High Stability and Small Band Gap. <i>Angewandte Chemie</i> , 2016 , 128, 2743-2746	3.6	12
169	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
168	CO ₂ activation through silylimido and silylamido zirconium hydrides supported on N-donor chelating SBA15 surface ligands. <i>Chemical Communications</i> , 2016 , 52, 2577-80	5.8	10
167	Mechanism and Regioselectivity of Rh(III)-Catalyzed Intermolecular Annulation of Aryl-Substituted Diazenecarboxylates and Alkenes: DFT Insights. <i>Organometallics</i> , 2016 , 35, 450-455	3.8	10
166	Benzo-thia-fused [1,2]thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity anti-aromaticity. <i>Chemical Science</i> , 2016 , 7, 3036-3046	9.4	31
165	Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2911-9	4.2	34
164	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
163	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
162	N-Annulated perylene as a donor in cyclopentadithiophene based sensitizers: the effect of the linking mode. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3709-3714	7.1	11
161	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

160	Super-heptazethrene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8615-9	16.4	59
159	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
158	Electrocatalytic Reduction of Carbon Dioxide with a Well-Defined PN -Ru Pincer Complex. <i>ChemPlusChem</i> , 2016 , 81, 166-171	2.8	18
157	Super-heptazethrene. <i>Angewandte Chemie</i> , 2016 , 128, 8757-8761	3.6	19
156	A potential role of a substrate as a base for the deprotonation pathway in Rh-catalysed C-H amination of heteroarenes: DFT insights. <i>Dalton Transactions</i> , 2016 , 45, 7980-5	4.3	12
155	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
154	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
153	A class of effective decarboxylative perfluoroalkylating reagents: [(phen) ₂ Cu](O ₂ CRF). <i>Dalton Transactions</i> , 2016 , 45, 8468-74	4.3	19
152	Diffusion as a function of guest molecule length and functionalization in flexible metal-organic frameworks. <i>Materials Horizons</i> , 2016 , 3, 355-361	14.4	11
151	Tungsten(VI) Carbyne/Bis(carbene) Tautomerization Enabled by N-Donor SBA15 Surface Ligands: A Solid-State NMR and DFT Study. <i>Angewandte Chemie</i> , 2016 , 128, 11328-11332	3.6	1
150	Tungsten(VI) Carbyne/Bis(carbene) Tautomerization Enabled by N-Donor SBA15 Surface Ligands: A Solid-State NMR and DFT Study. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11162-6	16.4	11
149	N-annulated perylene-substituted and fused porphyrin dimers with intense near-infrared one-photon and two-photon absorption. <i>Chemistry - A European Journal</i> , 2015 , 21, 3708-15	4.8	16
148	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
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