

Bin Rao

List of Publications by Year in descending order

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papers

1,393
citations

394421

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454955

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38
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective Hydrogenation of Aromatic Ketones and Phenols Enabled by Cyclic (Amino)(alkyl)carbene Rhodium Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 9250-9253.	13.7	139
2	Cyclic (Amino)(aryl)carbenes (CAArCs) as Strong σ -Donating and π -Accepting Ligands for Transition Metals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14915-14919.	13.8	126
3	Metal-Free Regio- and Chemoselective Hydroboration of Pyridines Catalyzed by 1,3,2-Diazaphosphenium Triflate. <i>Journal of the American Chemical Society</i> , 2018, 140, 652-656.	13.7	117
4	Pd(II)-Catalyzed Intermolecular Arylation of Unactivated C(sp ³)-H Bonds with Aryl Bromides Enabled by 8-Aminoquinoline Auxiliary. <i>Organic Letters</i> , 2014, 16, 2248-2251.	4.6	94
5	Palladium(II)-N-Heterocyclic Carbene Metallocrown Ether Complexes: Synthesis, Structure, and Catalytic Activity in the Suzuki-Miyaura Reaction. <i>Organometallics</i> , 2009, 28, 3093-3099.	2.3	92
6	Catalytic desulfurative homocoupling of sodium arylsulfonates in water using PdCl ₂ as the recyclable catalyst and O ₂ as the terminal oxidant. <i>Green Chemistry</i> , 2012, 14, 3436.	9.0	82
7	Aminocyanation by the Addition of N=C≡N Bonds to Arynes: Chemoselective Synthesis of 1,2-Bifunctional Aminobenzonitriles. <i>Organic Letters</i> , 2014, 16, 314-317.	4.6	78
8	Novel electrochromic materials based on chalcogenoviologens for smart windows, E-price tag and flexible display with improved reversibility and stability. <i>Chemical Engineering Journal</i> , 2021, 422, 130057.	12.7	72
9	Boron-Based Catalysts for C-C Bond Formation Reactions. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1279-1292.	3.3	65
10	Iron-Catalyzed <i>ortho</i> -Arylsulfonamide Formation through Directly Using Nitroarenes as Nitrogen Sources. <i>Journal of Organic Chemistry</i> , 2015, 80, 3504-3511.	3.2	64
11	Metal-Free Catalytic Reduction of α,β -Unsaturated Esters by 1,3,2-Diazaphospholene and Subsequent C-C Coupling with Nitriles. <i>ACS Catalysis</i> , 2017, 7, 5814-5819.	11.2	53
12	Poly(selenoviologen)-Assembled Upconversion Nanoparticles for Low-Power Single-NIR Light-Triggered Synergistic Photodynamic and Photothermal Antibacterial Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26432-26443.	8.0	46
13	Synthesis of 2-Benzylphenyl Ketones by Aryne Insertion into Unactivated C-C Bonds. <i>Organic Letters</i> , 2016, 18, 1678-1681.	4.6	39
14	<i>ortho</i> -Terphenylene Viologens with Through-Space Conjugation for Enhanced Photocatalytic Oxidative Coupling and Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 4422-4430.	13.7	38
15	π -Extended chalcogenoviologens with stable radical state enable enhanced visible-light-driven hydrogen evolution and static/dynamic electrochromic displays. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12278-12284.	10.3	36
16	Ring Expansion via Cleavage of Benzylic C-C Bonds Enabling Direct Synthesis of Medium Ring-Fused Benzocarbo-cycles. <i>Chemistry - an Asian Journal</i> , 2016, 11, 991-995.	3.3	34
17	Phosphorescent Bismoviologens for Electrophosphorochromism and Visible Light-Induced Cross-Dehydrogenative Coupling. <i>Journal of the American Chemical Society</i> , 2021, 143, 1590-1597.	13.7	33
18	Crystalline Boragermenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3147-3150.	13.8	23

#	ARTICLE	IF	CITATIONS
19	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)germylenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 231-235.	13.8	17
20	Bis(N-heterocyclic olefin) Derivative: An Efficient Precursor for Isophosphindolylium Species. <i>Inorganic Chemistry</i> , 2017, 56, 8608-8614.	4.0	14
21	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18150-18153.	13.8	13
22	Tunable ultralong organic phosphorescence modulated by main-group elements with different Lewis acidity and basicity. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14740-14747.	5.5	13
23	Crystalline Boragermenes. <i>Angewandte Chemie</i> , 2020, 132, 3171-3174.	2.0	12
24	Dithienoazaborine derivatives with selective π -conjugated extension via late-stage functionalization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4053-4061.	5.5	10
25	Bacteria-Triggered Solar Hydrogen Production via Platinum(II)-Tethered Chalcogenoviologens. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115298.	13.8	8
26	Efficient Photoinduced Electron Transfer from Pyrene-Carborane Heterojunction to Selenoviologen for Enhanced Photocatalytic Hydrogen Evolution and Reduction of Alkynes. <i>Advanced Science</i> , 2022, 9, 2101652.	11.2	8
27	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie</i> , 2019, 131, 18318-18321.	2.0	6
28	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)germylenes. <i>Angewandte Chemie</i> , 2019, 131, 237-241.	2.0	6
29	Bacteria-Triggered Solar Hydrogen Production via Platinum(II)-Tethered Chalcogenoviologens. <i>Angewandte Chemie</i> , 0, , .	2.0	2
30	Synthesis and catalytic activity of cis-chelated palladium(II) complexes of biphenyl-linked bis(imidazolin-2-ylidene). <i>Arkivoc</i> , 2011, 2011, 29-40.	0.5	1