

# Xiang Gao

## List of Publications by Year in descending order

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64  
papers

1,857  
citations

279798

23  
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68  
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68  
docs citations

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times ranked

1479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imidazolium-Based Ionic Liquids Catalyzed Formylation of Amines Using Carbon Dioxide and Phenylsilane at Room Temperature. <i>ACS Catalysis</i> , 2015, 5, 4989-4993.	11.2	173
2	Chemical Generation of C <sub>60</sub> -and Electron Transfer Mechanism for the Reactions with Alkyl Bromides. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16327-16335.	2.9	106
3	Ionic Liquid-Catalyzed C-S Bond Construction using CO <sub>2</sub> as a C1 Building Block under Mild Conditions: A Metal-Free Route to Synthesis of Benzothiazoles. <i>ACS Catalysis</i> , 2015, 5, 6648-6652.	11.2	105
4	Fluoro-functionalized polymeric ionic liquids: highly efficient catalysts for CO <sub>2</sub> -cycloaddition to cyclic carbonates under mild conditions. <i>Green Chemistry</i> , 2014, 16, 3724.	9.0	92
5	Azole-Anion-Based Aprotic Ionic Liquids: Functional Solvents for Atmospheric CO <sub>2</sub> Transformation into Various Heterocyclic Compounds. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2735-2740.	3.3	91
6	B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -catalyzed methylation of amines using CO <sub>2</sub> as a C1 building block. <i>Green Chemistry</i> , 2015, 17, 4189-4193.	9.0	89
7	Electrosynthesis and Structural Characterization of Two (C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> ) <sub>4</sub> C <sub>60</sub> Isomers. <i>Journal of the American Chemical Society</i> , 2000, 122, 563-570.	13.7	71
8	Suppressing thermal quenching via defect passivation for efficient quasi-2D perovskite light-emitting diodes. <i>Light: Science and Applications</i> , 2022, 11, 69.	16.6	60
9	Synthesis and Identification of Heterocyclic Derivatives of Fullerene C <sub>60</sub> : Unexpected Reaction of Anionic C <sub>60</sub> with Benzonitrile. <i>Journal of Organic Chemistry</i> , 2008, 73, 3159-3168.	3.2	54
10	An Efficient and General Method for Formylation of Aryl Bromides with CO <sub>2</sub> and Poly(methylhydrosiloxane). <i>Chemistry - A European Journal</i> , 2016, 22, 1097-1102.	3.3	54
11	Electrosynthesis and Characterization of 1,2-Dibenzyl C <sub>60</sub> : A Revisit. <i>Journal of Organic Chemistry</i> , 2007, 72, 2538-2542.	3.2	53
12	Reactions of Anionic Oxygen Nucleophiles with C <sub>60</sub> Revisited. <i>Organic Letters</i> , 2012, 14, 2386-2389.	4.6	46
13	Manganese(III) acetate-mediated free radical reactions of [60]fullerene with 1,2-dicarbonyl compounds. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3464-3469.	2.8	43
14	Electrochemical and H/D-Labeling Study of Oxazolino[60]Fullerene Rearrangement. <i>Journal of Organic Chemistry</i> , 2011, 76, 1384-1389.	3.2	43
15	Nature of Conduction Band Tailing in Hydrogenated Titanium Dioxide for Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2016, 8, 2010-2014.	3.7	43
16	Domain Controlling by Compound Additive toward Highly Efficient Quasi-2D Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2103890.	14.9	40
17	Atmospheric CO <sub>2</sub> promoted synthesis of N-containing heterocycles over B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> catalyst. <i>New Journal of Chemistry</i> , 2016, 40, 8282-8287.	2.8	36
18	Reductive Benzoylation of C <sub>60</sub> Imidazoline with a Bulky Addend. <i>Organic Letters</i> , 2014, 16, 712-715.	4.6	33

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19	Aerobic Oxidations of C <sub>60</sub> in the Presence of PhCN and PhCH <sub>2</sub> CN: Oxygenation versus Dehydrogenation Reactions. <i>Journal of Organic Chemistry</i> , 2012, 77, 2553-2558.	3.2	31
20	Electrogeneration and Characterization of (C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> ) <sub>2</sub> C <sub>70</sub> . <i>Journal of Physical Chemistry A</i> , 2000, 104, 2902-2907.	2.5	28
21	Multiple Morphologies and Their Transformation of a Polystyrene-block-poly(4-vinylpyridine) Block Copolymer. <i>Macromolecular Rapid Communications</i> , 2006, 27, 260-265.	3.9	26
22	Hydrosilane-promoted cyclization of 2-aminothiophenols by CO <sub>2</sub> to benzothiazoles. <i>RSC Advances</i> , 2014, 4, 56957-56960.	3.6	26
23	Base-Promoted Consecutive Enolate Addition Reaction of [60]Fullerene with Ketones. <i>Organic Letters</i> , 2015, 17, 5192-5195.	4.6	23
24	Regioselective Oxazolinization of C <sub>70</sub> and Formation of cis-1 C <sub>70</sub> Adduct with Respect to the Apical Pentagon. <i>Journal of Organic Chemistry</i> , 2012, 77, 7299-7306.	3.2	22
25	Electroreductive Transformation of [60]Fullerene Sulfones into Fullerenesulfonic Acids. <i>Journal of Organic Chemistry</i> , 2013, 78, 7093-7099.	3.2	20
26	Copper-Catalyzed Aerobic Oxidative Reaction of C <sub>60</sub> with Aliphatic Primary Amines and CS <sub>2</sub> . <i>Journal of Organic Chemistry</i> , 2018, 83, 2125-2130.	3.2	20
27	Formation of Fullerooxazoles from C <sub>61</sub> HPh <sub>3</sub> : The Regioselectivity of Heteroatom Additions. <i>Journal of Organic Chemistry</i> , 2009, 74, 8071-8077.	3.2	17
28	Preparation and characterisation of an equatorial para-adduct of (PhCH <sub>2</sub> )HC <sub>70</sub> from the reaction of C <sub>70</sub> with benzyl bromide and H <sub>2</sub> O: addition effects in the polar and equatorial regions of C <sub>70</sub> . <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6646.	2.8	17
29	Reactions of C <sub>70</sub> <sup>2+</sup> with Organic Halides Revisited: Unusual Magnetic Equivalence for the Diastereotopic Methylene Protons in 2,5-(PhCH <sub>2</sub> ) <sub>2</sub> C <sub>70</sub> . <i>Journal of Organic Chemistry</i> , 2013, 78, 7208-7215.	3.2	16
30	Hydroxide-Initiated Conversion of Aromatic Nitriles to Imidazolines: Fullerenes vs TCNE. <i>Organic Letters</i> , 2013, 15, 4646-4649.	4.6	16
31	Uniaxial alignment of poly(3-hexylthiophene) nanofibers by zone-casting approach. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 748-759.	3.8	16
32	Reductive Coupling of CO <sub>2</sub> , Primary Amine, and Aldehyde at Room Temperature: A Versatile Approach to Unsymmetrically N,N-Disubstituted Formamides. <i>Chemistry - A European Journal</i> , 2017, 23, 9721-9725.	3.3	16
33	Controlled Synthesis of C <sub>70</sub> Equatorial Multiadducts with Mixed Addends from an Equatorial Diadduct: Evidence for an Electrophilic Carbanion. <i>Organic Letters</i> , 2018, 20, 2328-2332.	4.6	16
34	Regiocontrolled Electrosynthesis of [60]Fullerene Bisadducts: Photovoltaic Performance and Crystal Structures of C <sub>60</sub> - <i>o</i> -Quinodimethane Bisadducts. <i>Journal of Organic Chemistry</i> , 2017, 82, 8676-8685.	3.2	15
35	Synthesis of nano-sized LTL zeolite by addition of a Ba precursor with superior <i>n</i> -octane aromatization performance. <i>Catalysis Science and Technology</i> , 2018, 8, 2860-2869.	4.1	15
36	Sequential protocol for C(sp) <sup>2</sup> H carboxylation with CO <sub>2</sub> : KOtBu-catalyzed C(sp) <sup>2</sup> H silylation and KOtBu-mediated carboxylation. <i>Science China Chemistry</i> , 2018, 61, 449-456.	8.2	15

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37	P3HT stripe structure with oriented nanofibrils enabled by controlled inclining evaporation. Chinese Journal of Polymer Science (English Edition), 2013, 31, 610-619.	3.8	13
38	Enhanced photocatalytic oxygen evolution over Mo-doped Ca <sub>2</sub> NiWO <sub>6</sub> perovskite photocatalyst under visible light irradiation. RSC Advances, 2017, 7, 5821-5826.	3.6	13
39	The Influence of Size and Shape of Pd Nanoparticles on the Performances of Pd/Beta Catalysts for n-Heptane Hydroisomerization. ChemCatChem, 2019, 11, 3542-3551.	3.7	13
40	Oxazolation of 1,4-(PhCH <sub>2</sub> ) <sub>2</sub> C <sub>60</sub> : Toward a Better Understanding of Multiadditions of Heteroaddends. Organic Letters, 2012, 14, 3482-3485.	4.6	12
41	Reductive Benzoylation of C <sub>70</sub> Imidazoline with a Bulky Addend. Journal of Organic Chemistry, 2014, 79, 8865-8870.	3.2	12
42	Reductive Activation of C <sub>70</sub> Equatorial Carbons and Structurally Characterized C <sub>70</sub> I <sup>-</sup> Adduct with Closed [5,6]-Ring Fusion. Journal of Organic Chemistry, 2017, 82, 9253-9257.	3.2	12
43	Splitting of Degenerate Orbitals of Dibenzyl and Tetrabenzyl Adducts of C <sub>60</sub> : ESR of the Radical Anions and the Rotation Barriers of Benzyl Groups. Journal of Physical Chemistry A, 2000, 104, 2908-2913.	2.5	11
44	Electronic vs Steric Effects on the Stability of Anionic Species: A Case Study on the Ortho and Para Regioisomers of Organofullerenes. Journal of Organic Chemistry, 2015, 80, 1557-1563.	3.2	11
45	Approach to High Open-Circuit Voltage in Organic Solar Cells Utilizing a Structural Change of the Oxazolino-C <sub>70</sub> Derivative. Chemistry - A European Journal, 2015, 21, 1894-1899.	3.3	11
46	Vis-Near-IR Spectroscopic and Time-Dependent DFT Study of Reduced Singly Bonded C <sub>60</sub> Species. Journal of Physical Chemistry A, 2015, 119, 9534-9540.	2.5	10
47	Oxygen-Bridged 1,2- <sup>2,4</sup> -RC <sub>60</sub> -O-RC <sub>60</sub> Unsymmetrical Dimer. Organic Letters, 2013, 15, 1642-1645.	4.6	9
48	Oxazoline and Imidazoline Functionalization of a C <sub>60</sub> Dimer via the Reaction of C <sub>60</sub> HBn and Aromatic Nitriles with a Bifunctional Hydroxide. Journal of Organic Chemistry, 2014, 79, 197-203.	3.2	9
49	Multifunctionalization of C <sub>70</sub> at the two polar regions with a high regioselectivity via oxazolation and benzoylation reactions. Chemical Communications, 2016, 52, 5710-5713.	4.1	9
50	A quasi-ordered bulk heterojunction of P3HT/PCBM solar cells fabricated by zone-casting. Solar Energy Materials and Solar Cells, 2013, 117, 421-428.	6.2	8
51	Reductive Benzoylation of Singly Bonded 1,2,4,15-C <sub>60</sub> Dimers with an Oxazoline or Imidazoline Heterocycle: Unexpected Formation of 1,2,3,16-C <sub>60</sub> Adducts and Insights into the Reactivity of Singly Bonded C <sub>60</sub> Dimers. Journal of Organic Chemistry, 2015, 80, 3566-3571.	3.2	8
52	Reductive Cleavage of C=O Bond in Model Compounds of Lignin. Chinese Journal of Chemistry, 2017, 35, 938-942.	4.9	8
53	Methoxylation of Singly Bonded 1,4- <sup>2,4</sup> -BnC <sub>60</sub> -C <sub>60</sub> Bn Dimer: Preferential Formation of 1,4-C <sub>60</sub> Adduct with Sterically Less Demanding Addends and Stability Difference between 1,2- and 1,4-OMe(Bn)C <sub>60</sub> . Journal of Organic Chemistry, 2016, 81, 6838-6842.	3.2	7
54	Dithiolation of [70]Fullerene with Aliphatic Primary Thiols in the Presence of n-Butylamine via Aerobic Oxidation Reaction. Journal of Organic Chemistry, 2019, 84, 3045-3054.	3.2	7

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55	Preparation of a C70 Bis-heterocyclic Derivative with High Chemio- and Regioselectivity. <i>Journal of Organic Chemistry</i> , 2015, 80, 5315-5319.	3.2	6
56	Base-Promoted Oxidative Cycloaddition Reaction of [60]Fullerene with Ethyl Acetoacetate for C <sub>60</sub> Bis-2,3-dihydrofuran Derivatives: Effect of Bulky Addends. <i>Journal of Organic Chemistry</i> , 2016, 81, 121-128.	3.2	6
57	Synthesis of (MeO) <sub>2</sub> Bn <sub>2</sub> C <sub>70</sub> : Regiochemistry of 2-fold Additions to C70 with Addends That Are Preferential for Ortho Addition and Capable of Para Addition. <i>Journal of Organic Chemistry</i> , 2018, 83, 13716-13725.	3.2	6
58	Synthesizing 1,23-C <sub>60</sub> Adducts with Improved Efficiency: A Type of Stable and Highly Soluble C <sub>60</sub> Derivatives. <i>Journal of Organic Chemistry</i> , 2019, 84, 14679-14687.	3.2	6
59	Reactions of [60]Fullerene with Acetone under Basic Condition: Nucleophilic Ring Opening of the [5,6]-Cyclopropane in C <sub>60</sub> and Formation of the Substituted Methano[60]Fulleroids. <i>Journal of Organic Chemistry</i> , 2021, 86, 4843-4848.	3.2	5
60	In situ synthesis of one eco-friendly polyacrylic acid/zinc colloidal particles doped polyacrylic acid as an efficient corrosion inhibitor for iron. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 267-279.	1.5	3
61	Base-iodine-promoted metal-catalyst-free reactions of [60]fullerene with $\beta$ -keto esters for the selective formation of [60]fullerene derivatives. <i>RSC Advances</i> , 2020, 10, 24549-24554.	3.6	2
62	Regioisomeric $\beta$ -[70]fullerene-fused lactones: Synthesis, characterization and solubility difference. <i>Tetrahedron Letters</i> , 2020, 61, 152607.	1.4	1
63	The crystallographic observation of mesitylene- $\beta$ -mesitylene and mesitylene- $\beta$ -CH <sub>2</sub> Cl <sub>2</sub> -mesitylene adducts trapped in an irregular cavity. <i>CrystEngComm</i> , 2014, 16, 8652-8655.	2.6	0
64	Nature of Conduction Band Tailing in Hydrogenated Titanium Dioxide for Photocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2016, 8, 1993-1993.	3.7	0