Igor Larrosa

List of Publications by Year
in descending order

84 papers	6,539 citations	71061 41 h-index	64755 79 g-index
114 all docs	114 docs citations	114 times ranked	5135 citing authors

#	Article	IF	Citations
1	Gold-mediated Câ€“H bond functionalisation. Chemical Society Reviews, 2011, 40, 1910-1925.	18.7	439
2	Room Temperature and Phosphine Free Palladium Catalyzed Direct C-2 Arylation of Indoles. Journal of the American Chemical Society, 2008, 130, 2926-2927.	6.6	417
3	Overriding Orthoâ€“Para Selectivity via a Traceless Directing Group Relay Strategy: The Meta-Selective Arylation of Phenols. Journal of the American Chemical Society, 2014, 136, 4109-4112.	6.6	319
4	Carboxylic Acids as Traceless Directing Groups for Formal <i>meta</i>â€Selective Direct Arylation. Angewandte Chemie - International Edition, 2011, 50, 9429-9432.	7.2	292
5	Intermolecular Decarboxylative Direct C-3 Arylation of Indoles with Benzoic Acids. Organic Letters, 2009, 11, 5506-5509.	2.4	288
6	Synthesis of six-membered oxygenated heterocycles through carbonâ€“oxygen bond-forming reactions. Tetrahedron, 2008, 64, 2683-2723.	1.0	232
7	Decarboxylative Carbon-Carbon Bond-Forming Transformations of (Hetero)aromatic Carboxylic Acids. Synthesis, 2012, 44, 653-676.	1.2	227
8	The use of carboxylic acids as traceless directing groups for regioselective Câ€“H bond functionalisation. Chemical Communications, 2017, 53, 5584-5597.	2.2	196
9	Au-Catalyzed Cross-Coupling of Arenes via Double Câ€“H Activation. Journal of the American Chemical Society, 2015, 137, 15636-15639.	6.6	181
10	Câ˜'H Carboxylation of Aromatic Compounds through CO₂ Fixation. ChemSusChem, 2017, 10, 3317-3332.	3.6	179
11	Silver-Catalyzed Protodecarboxylation of Heteroaromatic Carboxylic Acids. Organic Letters, 2009, 11, 5710-5713.	2.4	168
12	Silver-catalysed protodecarboxylation of ortho-substituted benzoic acids. Chemical Communications, 2009, , 7176.	2.2	158
13	Bismuth-Catalyzed Benzylic Oxidations withtert-Butyl Hydroperoxide. Organic Letters, 2005, 7, 4549-4552.	2.4	154
14	Ag(I)-Catalyzed Câ€“H Activation: The Role of the Ag(I) Salt in Pd/Ag-Mediated Câ€“H Arylation of Electron-Deficient Arenes. Journal of the American Chemical Society, 2016, 138, 8384-8387.	6.6	136
15	Highly Convergent Three Component Benzyne Coupling:Â The Total Synthesis ofent-Clavilactone B. Journal of the American Chemical Society, 2006, 128, 14042-14043.	6.6	127
16	Gold(I)-Mediated Câ˜'H Activation of Arenes. Journal of the American Chemical Society, 2010, 132, 5580-5581.	6.6	126
17	Room-Temperature Direct Î²-Arylation of Thiophenes and Benzo[<i>b</i>]thiophenes and Kinetic Evidence for a Heck-type Pathway. Journal of the American Chemical Society, 2016, 138, 1677-1683.	6.6	125
18	Cyclometallated ruthenium catalyst enables late-stage directed arylation of pharmaceuticals. Nature Chemistry, 2018, 10, 724-731.	6.6	124

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19	Ru-Catalyzed Câ€“H Arylation of Fluoroarenes with Aryl Halides. Journal of the American Chemical Society, 2016, 138, 3596-3606.	6.6	120
20	Decarboxylative homocoupling of (hetero)aromatic carboxylic acids. Chemical Communications, 2010, 46, 8276.	2.2	118
21	Recent Progress in Decarboxylative Oxidative Crossâ€Coupling for Biaryl Synthesis. European Journal of Organic Chemistry, 2017, 2017, 3517-3527.	1.2	111
22	An organic cation as a silver(<scp>i</scp>) analogue for the arylation of sp² and sp³ Câ€“H bonds with iodoarenes. Chemical Science, 2014, 5, 3509-3514.	3.7	100
23	Transition-Metal-Free Decarboxylative Iodination: New Routes for Decarboxylative Oxidative Cross-Couplings. Journal of the American Chemical Society, 2017, 139, 11527-11536.	6.6	99
24	Direct ortho-Arylation of ortho-Substituted Benzoic Acids: Overriding Pd-Catalyzed Protodecarboxylation. Organic Letters, 2013, 15, 910-913.	2.4	89
25	Redoxâ€Controlled Selectivity of Cï£¿H Activation in the Oxidative Crossâ€Coupling of Arenes. Angewandte Chemie - International Edition, 2013, 52, 1781-1784.	7.2	87
26	Metalation Dictates Remote Regioselectivity: Rutheniumâ€Catalyzed Functionalization of <i>meta</i> C_{Ar}ï£¿H Bonds. Angewandte Chemie - International Edition, 2013, 52, 11458-11460.	7.2	83
27	Rutheniumâ€Catalyzed Câˆ’H Arylation of Benzoic Acids and Indole Carboxylic Acids with Aryl Halides. Chemistry - A European Journal, 2017, 23, 549-553.	1.7	83
28	â€œOn Waterâ€ Phosphineâ€Free Palladiumâ€Catalyzed Room Temperature Cï£¿H Arylation of Indoles. Chemistry - A European Journal, 2013, 19, 15093-15096.	1.7	82
29	Areneâ€“Metal Ï€-Complexation as a Traceless Reactivity Enhancer for Câ€“H Arylation. Journal of the American Chemical Society, 2013, 135, 13258-13261.	6.6	78
30	Ag(I)â€“Câ€“H Activation Enables Near-Room-Temperature Direct Î±-Arylation of Benzo[<i>b</i>]thiophenes. Journal of the American Chemical Society, 2018, 140, 9638-9643.	6.6	76
31	Enzymatic Carboxylation of 2-Furoic Acid Yields 2,5-Furandicarboxylic Acid (FDCA). ACS Catalysis, 2019, 9, 2854-2865.	5.5	74
32	Salicylic acids as readily available starting materials for the synthesis of meta-substituted biaryls. Chemical Communications, 2015, 51, 3127-3130.	2.2	69
33	A Novel Mode of Reactivity for Gold(I): The Decarboxylative Activation of (Hetero)Aromatic Carboxylic Acids. Advanced Synthesis and Catalysis, 2011, 353, 1359-1366.	2.1	68
34	Carboxylation of Phenols with CO₂ at Atmospheric Pressure. Chemistry - A European Journal, 2016, 22, 6798-6802.	1.7	65
35	Photoelectrocatalysis of Rhodamine B and Solar Hydrogen Production by TiO 2 and Pd/TiO 2 Catalyst Systems. Electrochimica Acta, 2017, 231, 641-649.	2.6	61
36	Two Flavors of PEPPSI-IPr: Activation and Diffusion Control in a Single NHC-Ligated Pd Catalyst?. Organic Letters, 2011, 13, 146-149.	2.4	60

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37	The <i>ortho</i>â€Substituent Effect on the Agâ€Catalysed Decarboxylation of Benzoic Acids. Chemistry - A European Journal, 2014, 20, 16680-16687.	1.7	58
38	Recent Advances in the C2 and C3 Regioselective Direct Arylation of Indoles. Advances in Heterocyclic Chemistry, 2012, 105, 309-351.	0.9	50
39	Mild Cleavage of Aryl Mesylates:â€‰ Methanesulfonate as Potent Protecting Group for Phenols. Organic Letters, 2004, 6, 1513-1514.	2.4	48
40	Tuning Reactivity and Site Selectivity of Simple Arenes in Câ€"H Activation: Ortho-Arylation of Anisoles via Areneâ€"Metal Ï€-Complexation. Journal of the American Chemical Society, 2014, 136, 18082-18086.	6.6	47
41	Selective deuteration of (hetero)aromatic compounds via deutero-decarboxylation of carboxylic acids. Organic and Biomolecular Chemistry, 2012, 10, 3172.	1.5	45
42	Transition-metal-free decarboxylative bromination of aromatic carboxylic acids. Chemical Science, 2018, 9, 3860-3865.	3.7	43
43	<i>meta</i>-Câ€"H arylation of fluoroarenes <i>via</i> traceless directing group relay strategy. Chemical Science, 2018, 9, 7133-7137.	3.7	43
44	Plasmon enhanced visible light photocatalysis for TiO₂ supported Pd nanoparticles. Nanoscale, 2015, 7, 12331-12335.	2.8	38
45	Catalytic Asymmetric Câ€"H Arylation of (Î·⁶-Arene)Chromium Complexes: Facile Access to Planar-Chiral Phosphines. ACS Catalysis, 2019, 9, 5268-5278.	5.5	37
46	Direct <i>ortho</i>-Arylation of Pyridinecarboxylic Acids: Overcoming the Deactivating Effect of sp²-Nitrogen. Organic Letters, 2016, 18, 6094-6097.	2.4	35
47	Unprecedented Highly Stereoselective Î±- and Î²-C-Glycosidation with Chiral Titanium Enolates. Organic Letters, 2002, 4, 4651-4654.	2.4	34
48	A Domino Oxidation/Arylation/Protodecarboxylation Reaction of Salicylaldehydes: Expanded Access to <i>meta</i>â€Arylphenols. Chemistry - an Asian Journal, 2016, 11, 347-350.	1.7	34
49	Ag/Pd Cocatalyzed Direct Arylation of Fluoroarene Derivatives with Aryl Bromides. ACS Catalysis, 2020, 10, 2100-2107.	5.5	32
50	Stereoselective Synthesis of the Western Hemisphere of Salinomycin. Organic Letters, 2006, 8, 527-530.	2.4	30
51	A silver-free system for the direct Câ€"H auration of arenes and heteroarenes from gold chloride complexes. Catalysis Science and Technology, 2013, 3, 2892.	2.1	30
52	Good things come in threes. Nature Chemistry, 2016, 8, 1086-1088.	6.6	26
53	Biaryl Synthesis via Câ€"H Bond Activation. Advances in Organometallic Chemistry, 2017, 67, 299-399.	0.5	26
54	Cyclometalated Ruthenium Catalyst Enables Ortho-Selective Câ€"H Alkylation with Secondary Alkyl Bromides. CheM, 2020, 6, 1459-1468.	5.8	26

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55	Benzoate Cyclometalation Enables Oxidative Addition of Haloarenes at a Ru(II) Center. Journal of the American Chemical Society, 2018, 140, 11836-11847.	6.6	25
56	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. Nanoscale, 2020, 12, 12383-12394.	2.8	23
57	meta-Selective olefination of fluoroarenes with alkynes using CO2 as a traceless directing group. Chemical Science, 2020, 11, 4204-4208.	3.7	23
58	Selective and general exhaustive cross-coupling of di-chloroarenes with a deficit of nucleophiles mediated by a Pdâ€“NHC complex. Chemical Communications, 2015, 51, 3832-3834.	2.2	22
59	Decarboxylative Suzukiâ€“Miyaura coupling of (hetero)aromatic carboxylic acids using iodine as the terminal oxidant. Chemical Communications, 2019, 55, 6445-6448.	2.2	20
60	A Direct Arylationâ€Cyclisation Reaction for the Construction of Mediumâ€Sized Rings. Chemistry - A European Journal, 2017, 23, 12763-12766.	1.7	19
61	Structure and Mechanism of <i>Pseudomonas aeruginosa</i> PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. ACS Catalysis, 2021, 11, 2865-2878.	5.5	15
62	Catalysis with cycloruthenated complexes. Chemical Science, 2022, 13, 3335-3362.	3.7	15
63	Studies on the Intramolecular Câˆ’HÂ·Â·Â·X (X = O, S) Interactions in (S)-N-Acyl-4-isopropyl-1,3-thiazolidine-2-thiones and Related 1,3-Oxazolidin-2-ones. Organic Letters, 2003, 5, 2809-2812.	2.4	14
64	Ru-catalyzed room-temperature alkylation and late-stage alkylation of arenes with primary alkyl bromides. Chem Catalysis, 2021, 1, 691-703.	2.9	14
65	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. Molecular Systems Design and Engineering, 2019, 4, 503-510.	1.7	13
66	Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. Faraday Discussions, 2021, 227, 46-60.	1.6	12
67	Insights into the exfoliation mechanism of pyrene-assisted liquid phase exfoliation of graphene from lateral size-thickness characterisation. Carbon, 2022, 186, 550-559.	5.4	12
68	Recent Advances in the C-2 Regioselective Direct Arylation of Indoles. Progress in Heterocyclic Chemistry, 2011, 22, 1-20.	0.5	10
69	Palladium catalysed Câ€“H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. Chemical Science, 2020, 11, 2472-2478.	3.7	10
70	Reaction monitoring reveals poisoning mechanism of Pd₂(dba)₃ and guides catalyst selection. Chemical Communications, 2017, 53, 12890-12893.	2.2	9
71	Transition metal-free cross-dehydrogenative arylation of unactivated benzylic Câ€“H bonds. Chemical Communications, 2020, 56, 14479-14482.	2.2	9
72	Studies on the Total Synthesis of Lactonamycin: Synthesis of the Fused Pentacyclic Bâ€“F Ring Unit. European Journal of Organic Chemistry, 2012, 2012, 107-113.	1.2	8

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73	Câ€“H Functionalisation of Heteroaromatic Compounds via Gold Catalysis. Topics in Heterocyclic Chemistry, 2016, , 175-226.	0.2	8
74	Evidence for Site-Specific Reversible Hydrogen Adsorption on Graphene by Sum-Frequency Generation Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2019, 123, 25883-25889.	1.5	6
75	Ketone Câ€“C Bond Activation Meets the Suzuki-Miyaura Cross-coupling. CheM, 2018, 4, 1203-1204.	5.8	4
76	Stereoselective Synthesis of Î±- and Î²-C-Glycosides by Addition of Titanium Enolates to Glycals. Synlett, 2009, 2009, 2982-2986.	1.0	2
77	Determination of 2H KIEs from Competition Experiments: Increased Accuracy via Isotopic Enrichment. Topics in Catalysis, 2017, 60, 589-593.	1.3	2
78	Highly Efficient Plasmonic Palladium-Titanium Dioxide Co-Catalyst in the Photodegradation of Rhodamine B Dye. Advances in Science and Technology, 0, , .	0.2	1
79	Two prime or not two prime. Nature Catalysis, 2018, 1, 381-382.	16.1	1
80	Synthesis ofO-BenzylProtectedantiAldols through the Cross-Coupling Reactionof Dibenzyl Acetals with a Chiral Titanium Enolate. Synlett, 2003, 2003, 1109-1112.	1.0	0
81	Mild Cleavage of Aryl Mesylates: Methanesulfonate as Potent Protecting Group for Phenols.. ChemInform, 2004, 35, no.	0.1	0
82	Development of High Surface Area Titania on Glass Fibre Supports for Photocatalysis. Advances in Science and Technology, 0, , .	0.2	0
83	Câ€“H Borylation: No Need to Stop for Directions. Trends in Chemistry, 2020, 2, 957-959.	4.4	0
84	Sesquiterpene Lactones Potentiate Olaparib-Induced DNA Damage in p53 Wildtype Cancer Cells. International Journal of Molecular Sciences, 2022, 23, 1116.	1.8	0