

# Igor Larrosa

## 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.

83

papers

5,485

citations

40

h-index

73

g-index

114

ext. papers

6,117

ext. citations

9.1

avg, IF

6.34

L-index

#	Paper	IF	Citations
83	Insights into the exfoliation mechanism of pyrene-assisted liquid phase exfoliation of graphene from lateral size-thickness characterisation. <i>Carbon</i> , <b>2022</b> , 186, 550-559	10.4	2
82	Catalysis with cycloruthenated complexes.. <i>Chemical Science</i> , <b>2022</b> , 13, 3335-3362	9.4	1
81	Enhanced liquid phase exfoliation of graphene in water using an insoluble bis-pyrene stabiliser. <i>Faraday Discussions</i> , <b>2021</b> , 227, 46-60	3.6	6
80	Structure and Mechanism of PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2865-2878	13.1	8
79	Ru-catalyzed room-temperature alkylation and late-stage alkylation of arenes with primary alkyl bromides. <i>Chem Catalysis</i> , <b>2021</b> , 1, 691-703		3
78	Cyclometalated Ruthenium Catalyst Enables Ortho-Selective C-H Alkylation with Secondary Alkyl Bromides. <i>Chem</i> , <b>2020</b> , 6, 1459-1468	16.2	14
77	Stable, concentrated, biocompatible, and defect-free graphene dispersions with positive charge. <i>Nanoscale</i> , <b>2020</b> , 12, 12383-12394	7.7	13
76	-Selective olefination of fluoroarenes with alkynes using CO as a traceless directing group. <i>Chemical Science</i> , <b>2020</b> , 11, 4204-4208	9.4	12
75	Palladium catalysed C-H arylation of pyrenes: access to a new class of exfoliating agents for water-based graphene dispersions. <i>Chemical Science</i> , <b>2020</b> , 11, 2472-2478	9.4	5
74	Ag/Pd Cocatalyzed Direct Arylation of Fluoroarene Derivatives with Aryl Bromides. <i>ACS Catalysis</i> , <b>2020</b> , 10, 2100-2107	13.1	13
73	C-H Borylation: No Need to Stop for Directions. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 957-959	14.8	
72	Transition metal-free cross-dehydrogenative arylation of unactivated benzylic C-H bonds. <i>Chemical Communications</i> , <b>2020</b> , 56, 14479-14482	5.8	3
71	Evidence for Site-Specific Reversible Hydrogen Adsorption on Graphene by Sum-Frequency Generation Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25883-25889	3.8	49
70	Decarboxylative Suzuki-Miyaura coupling of (hetero)aromatic carboxylic acids using iodine as the terminal oxidant. <i>Chemical Communications</i> , <b>2019</b> , 55, 6445-6448	5.8	12
69	Catalytic Asymmetric C-H Arylation of (E)Arene)Chromium Complexes: Facile Access to Planar-Chiral Phosphines. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5268-5278	13.1	18
68	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 503-510	4.6	10
67	Enzymatic Carboxylation of 2-Furoic Acid Yields 2,5-Furandicarboxylic Acid (FDCA). <i>ACS Catalysis</i> , <b>2019</b> , 9, 2854-2865	13.1	44

66	Transition-metal-free decarboxylative bromination of aromatic carboxylic acids. <i>Chemical Science</i> , <b>2018</b> , 9, 3860-3865	9.4	34
65	-C-H arylation of fluoroarenes traceless directing group relay strategy. <i>Chemical Science</i> , <b>2018</b> , 9, 7133-7137	9.7	31
64	Ag(I)-C-H Activation Enables Near-Room-Temperature Direct Arylation of Benzo[ b]thiophenes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9638-9643	16.4	55
63	Benzoate Cyclometalation Enables Oxidative Addition of Haloarenes at a Ru(II) Center. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11836-11847	16.4	18
62	Ketone C=O Bond Activation Meets the Suzuki-Miyaura Cross-coupling. <i>Chem</i> , <b>2018</b> , 4, 1203-1204	16.2	4
61	Cyclometallated ruthenium catalyst enables late-stage directed arylation of pharmaceuticals. <i>Nature Chemistry</i> , <b>2018</b> , 10, 724-731	17.6	79
60	Photoelectrocatalysis of Rhodamine B and Solar Hydrogen Production by TiO <sub>2</sub> and Pd/TiO <sub>2</sub> Catalyst Systems. <i>Electrochimica Acta</i> , <b>2017</b> , 231, 641-649	6.7	52
59	Recent Progress in Decarboxylative Oxidative Cross-Coupling for Biaryl Synthesis. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 3517-3527	3.2	93
58	The use of carboxylic acids as traceless directing groups for regioselective C-H bond functionalisation. <i>Chemical Communications</i> , <b>2017</b> , 53, 5584-5597	5.8	138
57	Biaryl Synthesis via C=O Bond Activation. <i>Advances in Organometallic Chemistry</i> , <b>2017</b> , 67, 299-399	3.8	20
56	Determination of H KIEs from Competition Experiments: Increased Accuracy via Isotopic Enrichment. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 589-593	2.3	2
55	C-H Carboxylation of Aromatic Compounds through CO Fixation. <i>ChemSusChem</i> , <b>2017</b> , 10, 3317-3332	8.3	127
54	Transition-Metal-Free Decarboxylative Iodination: New Routes for Decarboxylative Oxidative Cross-Couplings. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11527-11536	16.4	81
53	A Direct Arylation-Cyclisation Reaction for the Construction of Medium-Sized Rings. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12763-12766	4.8	12
52	Reaction monitoring reveals poisoning mechanism of Pd(dba) <sub>3</sub> and guides catalyst selection. <i>Chemical Communications</i> , <b>2017</b> , 53, 12890-12893	5.8	7
51	Ruthenium-Catalyzed C-H Arylation of Benzoic Acids and Indole Carboxylic Acids with Aryl Halides. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 549-553	4.8	67
50	C-H activation: Good things come in threes. <i>Nature Chemistry</i> , <b>2016</b> , 8, 1086-1088	17.6	23
49	Direct ortho-Arylation of Pyridinecarboxylic Acids: Overcoming the Deactivating Effect of sp <sup>2</sup> -Nitrogen. <i>Organic Letters</i> , <b>2016</b> , 18, 6094-6097	6.2	24

48	Ag(I)-Catalyzed C-H Activation: The Role of the Ag(I) Salt in Pd/Ag-Mediated C-H Arylation of Electron-Deficient Arenes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8384-7	16.4	97
47	Room-Temperature Direct $\beta$ Arylation of Thiophenes and Benzo[b]thiophenes and Kinetic Evidence for a Heck-type Pathway. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1677-83	16.4	97
46	Ru-Catalyzed C-H Arylation of Fluoroarenes with Aryl Halides. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3596-606	16.4	98
45	Carboxylation of Phenols with CO <sub>2</sub> at Atmospheric Pressure. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 6798-802	4.8	48
44	A Domino Oxidation/Arylation/Protodecarboxylation Reaction of Salicylaldehydes: Expanded Access to meta-Arylphenols. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 347-50	4.5	27
43	C $\equiv$ H Functionalisation of Heteroaromatic Compounds via Gold Catalysis. <i>Topics in Heterocyclic Chemistry</i> , <b>2016</b> , 175-226	0.2	6
42	Plasmon enhanced visible light photocatalysis for TiO <sub>2</sub> supported Pd nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 12331-5	7.7	34
41	Au-Catalyzed Cross-Coupling of Arenes via Double C-H Activation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15636-9	16.4	145
40	Selective and general exhaustive cross-coupling of di-chloroarenes with a deficit of nucleophiles mediated by a Pd-NHC complex. <i>Chemical Communications</i> , <b>2015</b> , 51, 3832-4	5.8	17
39	Salicylic acids as readily available starting materials for the synthesis of meta-substituted biaryls. <i>Chemical Communications</i> , <b>2015</b> , 51, 3127-30	5.8	61
38	The ortho-substituent effect on the Ag-catalysed decarboxylation of benzoic acids. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 16680-7	4.8	49
37	An organic cation as a silver(I) analogue for the arylation of sp <sup>2</sup> and sp <sup>3</sup> C $\equiv$ H bonds with iodoarenes. <i>Chemical Science</i> , <b>2014</b> , 5, 3509-3514	9.4	87
36	Overriding ortho-para selectivity via a traceless directing group relay strategy: the meta-selective arylation of phenols. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4109-12	16.4	277
35	Development of High Surface Area Titania on Glass Fibre Supports for Photocatalysis. <i>Advances in Science and Technology</i> , <b>2014</b> , 93, 196-202	0.1	
34	Tuning reactivity and site selectivity of simple arenes in C-H activation: ortho-arylation of anisoles via arene-metal $\pi$ complexation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 18082-6	16.4	32
33	Highly Efficient Plasmonic Palladium-Titanium Dioxide Co-Catalyst in the Photodegradation of Rhodamine B Dye. <i>Advances in Science and Technology</i> , <b>2014</b> , 93, 184-189	0.1	1
32	Arene-metal $\pi$ complexation as a traceless reactivity enhancer for C-H arylation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13258-61	16.4	61
31	"On water", phosphine-free palladium-catalyzed room temperature C-H arylation of indoles. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 15093-6	4.8	75

30	Ferngesteuerte Regioselektivität durch Metallierung: Ruthenium-katalysierte meta-C-H-Funktionalisierung von Arenen. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11670-11672	3.6	18
29	Metalation dictates remote regioselectivity: ruthenium-catalyzed functionalization of meta C(Ar)-H Bonds. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11458-60	16.4	74
28	Redox-controlled selectivity of C-H activation in the oxidative cross-coupling of arenes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1781-4	16.4	77
27	Direct ortho-arylation of ortho-substituted benzoic acids: overriding Pd-catalyzed protodecarboxylation. <i>Organic Letters</i> , <b>2013</b> , 15, 910-3	6.2	83
26	A silver-free system for the direct C-H arylation of arenes and heteroarenes from gold chloride complexes. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2892	5.5	24
25	Redox-Controlled Selectivity of C-H Activation in the Oxidative Cross-Coupling of Arenes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1825-1828	3.6	23
24	Studies on the Total Synthesis of Lactonamycin: Synthesis of the Fused Pentacyclic B Ring Unit. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 107-113	3.2	8
23	Selective deuteration of (hetero)aromatic compounds via deuterio-decarboxylation of carboxylic acids. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 3172-4	3.9	39
22	Recent Advances in the C2 and C3 Regioselective Direct Arylation of Indoles. <i>Advances in Heterocyclic Chemistry</i> , <b>2012</b> , 105, 309-351	2.4	40
21	Decarboxylative Carbon-Carbon Bond-Forming Transformations of (Hetero)aromatic Carboxylic Acids. <i>Synthesis</i> , <b>2012</b> , 44, 653-676	2.9	204
20	Recent Advances in the C-2 Regioselective Direct Arylation of Indoles. <i>Progress in Heterocyclic Chemistry</i> , <b>2011</b> , 22, 1-20	0.8	6
19	Two flavors of PEPPSI-IPr: activation and diffusion control in a single NHC-ligated Pd catalyst?. <i>Organic Letters</i> , <b>2011</b> , 13, 146-9	6.2	57
18	Gold-mediated C-H bond functionalisation. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 1910-25	58.5	416
17	A Novel Mode of Reactivity for Gold(I): The Decarboxylative Activation of (Hetero)Aromatic Carboxylic Acids. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 1359-1366	5.6	57
16	Carboxylic Acids as Traceless Directing Groups for Formal meta-Selective Direct Arylation. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9601-9604	3.6	100
15	Carboxylic acids as traceless directing groups for formal meta-selective direct arylation. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9429-32	16.4	270
14	Decarboxylative homocoupling of (hetero)aromatic carboxylic acids. <i>Chemical Communications</i> , <b>2010</b> , 46, 8276-8	5.8	106
13	Gold(I)-mediated C-H activation of arenes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5580-1	16.4	107

12	Stereoselective Synthesis of $\beta$ - and $\alpha$ -Glycosides by Addition of Titanium Enolates to Glycols. <i>Synlett</i> , <b>2009</b> , 2009, 2982-2986	2.2	2
11	Intermolecular decarboxylative direct C-3 arylation of indoles with benzoic acids. <i>Organic Letters</i> , <b>2009</b> , 11, 5506-9	6.2	271
10	Silver-catalysed protodecarboxylation of ortho-substituted benzoic acids. <i>Chemical Communications</i> , <b>2009</b> , 7176-8	5.8	145
9	Silver-catalyzed protodecarboxylation of heteroaromatic carboxylic acids. <i>Organic Letters</i> , <b>2009</b> , 11, 5710-3	6.3	151
8	Room temperature and phosphine free palladium catalyzed direct C-2 arylation of indoles. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 2926-7	16.4	382
7	Synthesis of six-membered oxygenated heterocycles through carbon-oxygen bond-forming reactions. <i>Tetrahedron</i> , <b>2008</b> , 64, 2683-2723	2.4	209
6	Highly convergent three component benzyne coupling: the total synthesis of ent-clavilactone B. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14042-3	16.4	118
5	Stereoselective synthesis of the western hemisphere of salinomycin. <i>Organic Letters</i> , <b>2006</b> , 8, 527-30	6.2	27
4	Bismuth-catalyzed benzylic oxidations with tert-butyl hydroperoxide. <i>Organic Letters</i> , <b>2005</b> , 7, 4549-52	6.2	140
3	Mild cleavage of aryl mesylates: methanesulfonate as potent protecting group for phenols. <i>Organic Letters</i> , <b>2004</b> , 6, 1513-4	6.2	40
2	Studies on the intramolecular C-H...X (X = O, S) interactions in (S)-N-acyl-4-isopropyl-1,3-thiazolidine-2-thiones and related 1,3-oxazolidin-2-ones. <i>Organic Letters</i> , <b>2003</b> , 5, 2809-12	6.2	14
1	Unprecedented highly stereoselective alpha- and beta-C-glycosidation with chiral titanium enolates. <i>Organic Letters</i> , <b>2002</b> , 4, 4651-4	6.2	29